

Patrick S. Druckenmiller—Curriculum vitae

University of Alaska Museum
907 Yukon Dr.
Fairbanks, AK 99775-6960

Tel: 907.474.6954
Fax: 907.474.5469
psdruckenmiller@alaska.edu

PRESENT POSITIONS AND APPOINTMENTS

Earth Sciences Curator (2007-present)
University of Alaska Museum (UAM)

Assistant Professor of Geology (2007-present)
Department of Geology and Geophysics
University of Alaska Fairbanks

Adjunct Curator (2007-present)
Museum of the Rockies
Montana State University Bozeman

EDUCATION

University of Calgary, Alberta, Canada (2002-2006)
Ph.D., Department of Biological Sciences. Dissertation: *Early Cretaceous plesiosaurs (Sauropterygia: Plesiosauria) from northern Alberta: palaeoenvironmental and systematic implications*. Major professor: Anthony P Russell

Montana State University Bozeman (1993-1998).
M.S., Department of Biological Sciences. Thesis: *Osteology and relationships of a plesiosaur (Sauropterygia) from the Thermopolis Shale (Lower Cretaceous) of Montana*. Major professor: John R Horner

University of Wisconsin Madison (1985-1991).
B.A., Department of Botany. Graduation with Distinction

RESEARCH & PROFESSIONAL EXPERIENCE

Research Interests

Osteology, phylogenetic systematics, paleobiology and taphonomy of (1) Mesozoic marine reptiles (especially plesiosaurs and ichthyosaurs), (2) Arctic dinosaurs of Alaska.

Publications

Benson, RBJ, M Evans & **PS Druckenmiller**. 2012. High diversity, low disparity and small body size in plesiosaurs (Reptilia, Sauropterygia) from the Triassic-Jurassic boundary. *PLoS ONE* 7(3): e31838.doi:10.1371/journal.pone.0031838.

Maxwell, EE, M Zammit & **PS Druckenmiller**. In press. Morphology and orientation of the ichthyosaurian femur. *Journal of Vertebrate Paleontology*.

Patrick S. Druckenmiller, Curriculum vitae

- Watanabe, A, GM Erickson, & **PS Druckenmiller**. Accepted. An ornithomimosaurian from the Upper Cretaceous Prince Creek Formation of Alaska. *Journal of Vertebrate Paleontology*.
- Knutsen, EM, **PS Druckenmiller** & JH Hurum. Accepted. A new species of *Pliosaurus* (Sauropterygia: Plesiosauria) from the middle Volgian of Svalbard, Norway. *Norwegian Journal of Geology*.
- Knutsen, EM, **PS Druckenmiller** & JH Hurum. Accepted. Redescription and taxonomic clarification of '*Tricleidus*' *svalbardensis* based on new material from the Agardhfjellet Formation (middle Volgian). *Norwegian Journal of Geology*.
- Brown, CM & **PS Druckenmiller**. 2011. Basal ornithopod (Dinosauria: Ornithischia) teeth from the Prince Creek Formation (Campanian-Paleocene) of Alaska and a redescription of the dentition of *Parksosaurus*. *Canadian Journal of Earth Sciences* 48: 1342-1354.
- Erickson, GM & **PS Druckenmiller**. 2011. Longevity and growth rate estimates for a polar dinosaur: a *Pachyrhinosaurus* (Dinosauria: Neoceratopsia) specimen from the North Slope of Alaska showing a complete developmental record. *Historical Biology* 23(4): 327-334 DOI:10.1080/08912963.2010.546856.
- Maxwell, EE & **PS Druckenmiller**. 2011. A small ichthyosaur from the Clearwater Formation (Alberta, Canada) and a discussion of the taxonomic utility of the pectoral girdle. *Paläontologische Zeitschrift* 85: 457-463. DOI: 10.1007/s12542-011-0106-0.
- Hammer, Ø., HA Nakrem, CTS Little, K Hryniewicz, MR Sandy, JH Hurum, **PS Druckenmiller**, EM Knutsen & M Høyberget. 2011. Hydrocarbon seeps from close to the Jurassic-Cretaceous boundary, Svalbard. *Palaeogeography, Palaeoclimatology, Palaeoecology* 306(2011): 15-26.
- Druckenmiller, PS** & EE Maxwell. 2010. A new Lower Cretaceous (lower Albian) ichthyosaur genus from the Clearwater Formation, Alberta, Canada. *Canadian Journal of Earth Sciences* 47: 1037-1053.
- Druckenmiller, PS** & AP Russell. 2009. Earliest North American occurrence of Polycotylidae (Sauropterygia: Plesiosauria) from the Lower Cretaceous (Albian) Clearwater Formation, Alberta, Canada. *Journal of Paleontology* 83(6): 981-989.
- Druckenmiller, PS** & AP Russell. 2009. The new plesiosaurian genus *Nichollssaura* from Alberta, Canada: replacement name for the preoccupied genus *Nichollisia*. *Journal of Vertebrate Paleontology* 29(1): 276.
- Druckenmiller, PS** & AP Russell. 2008. A phylogeny of Plesiosauria (Sauropterygia) and its bearing on the systematic status of *Leptocleidus* Andrews, 1922. *Zootaxa* 1863: 1-120.
- Druckenmiller, PS** & AP Russell. 2008. Skeletal anatomy of an exceptionally complete specimen of a new genus of plesiosaur from the Early Cretaceous (early Albian) of northeastern Alberta, Canada. *Palaeontographica Abteilung A*, 283(1-3): 1-33.

Patrick S. Druckenmiller—Curriculum vitae

Druckenmiller, PS & AP Russell. 2006. A new elasmosaurid plesiosaur from the Early Cretaceous Clearwater Formation, northeastern Alberta, Canada. *Paludicola* 5(4): 184-199.

Druckenmiller, PS. 2002. Osteology of a new plesiosaur from the Lower Cretaceous (Albian) Thermopolis Shale of Montana. *Journal of Vertebrate Paleontology* 22(1): 29-42.

Submitted manuscripts

Druckenmiller, PS, JH Hurum, EM Knutsen & HA Nakrem. In review. Two new ichthyosaurs (Ichthyosauria: Ophthalmosauridae) from the Agardhfjellet Formation (Upper Jurassic: Volgian), Svalbard, Norway. *Norwegian Journal of Geology*.

Knutsen, EM, **PS Druckenmiller** & JH Hurum. In review. A new plesiosauroid (Reptilia: Sauropterygia) from the Agardhfjellet Formation (middle Volgian) of Svalbard, Norway. *Norwegian Journal of Geology*.

Druckenmiller, PS & EM Knutsen. In review. Phylogenetic relationships of Upper Jurassic (middle Volgian) plesiosaurians (Reptilia: Sauropterygia) from the Agardhfjellet Formation of Svalbard, Norway. *Norwegian Journal of Geology*.

Knutsen, EM, **PS Druckenmiller** & JH Hurum. In review. Two new species of long-necked plesiosaurians (Reptilia: Sauropterygia) from the Upper Jurassic (middle Volgian) Agardhfjellet Formation of central Spitsbergen. *Norwegian Journal of Geology*.

Miller, JH, **PS Druckenmiller** & V Bahn. In review. Antlers on the Arctic Refuge: capturing multi-generational patterns of calving ground use from bones on the landscape. *Proceedings of the Royal Society B*.

Manuscripts in Preparation

Druckenmiller, PS, N Kelley & M Whalen. In preparation. Gut contents in an Upper Triassic (Norian) shastasaur (Ichthyosauria) from the Otuk Formation, northern Alaska. For the *Journal of Vertebrate Paleontology*.

Druckenmiller, PS & EE Maxwell. In preparation. A middle Jurassic (Bajocian) ophthalmosaurid ichthyosaur from the Tuxedni Formation, Talkeetna Mountains, Alaska. For the *Journal of Vertebrate Paleontology*.

Druckenmiller, PS, S Fowell, P McCarthy, R Blodgett & KC May. In preparation. Ichnology and paleoecology of a dinosaur tracksite from the Upper Jurassic Naknek Formation, Peninsular Terrane, southwest Alaska. For *Palaios*.

Book Chapters (non-peer reviewed)

Horner, JH and **PS Druckenmiller**. In Press. Polar dinosaurs: preserving an ancient ecosystem. *in On Arctic Ground*, Braided River and The Mountaineers Books, Seattle.

Patrick S. Druckenmiller, Curriculum vitae

Grants, Fellowships and Contracts Awarded

- 2012: Curation of BLM Paleontology Collections, Bureau of Land Management, \$40,000.
- 2012: Research Experience for Undergraduates, Critical upgrades and digitization of the UAM Earth Sciences Collection, National Science Foundation, \$6,694.
- 2011: Critical upgrades and digitization of the UAM Earth Sciences Collection (DBI-1057426), National Science Foundation, \$392,466.
- 2011: Investigating dinosaur fossils from the Alaska Peninsula/Becharof National Wildlife Refuge, US Fish and Wildlife Service, \$9,980.
- 2011: Plesiosaurian phylogeny and diversification: bridging a geographical disjunction in the evolution of a major clade of marine reptiles, The Royal Society, UK, £2497. *co-PI, with R. Benson, University of Cambridge.*
- 2010: Backlog databasing of NPS Paleontology Collections at UAM, National Park Service, \$10,675.
- 2010: Documenting Alaska's Oldest Dinosaurs, US Fish and Wildlife Service, \$26,000.
- 2010: BLM Paleontology Collections Management, Bureau of Land Management, \$35,000.
- 2010: Graduate Fellowship for PhD student Mori, \$13,500, UAF Graduate School
- 2009: Rehabilitation of UAM Paleontology Collection, US Fish and Wildlife Service, \$30,742.
- 2009: Graduate Fellowship for PhD student Mori, \$13,500, UAF Graduate School
- 2008: Survey of Pleistocene vertebrates from the Selawik and Kobuk River areas, northwestern Alaska, US Fish and Wildlife Service, \$20,000.
- 2008: Marine reptiles of Svalbard, Alaska EPSCoR Travel Award, \$1421
- 2008: Travel Grant, UAF Faculty Development, \$750.
- 2005: Travel Grant, Samuel P. and Doris Welles Fund of the University of California-Berkeley Museum of Paleontology, \$600.
- 2004: University of Calgary Graduate Research Scholarship, \$4,100 CDN
- 2002: Research Excellence Envelope International, University of Calgary, \$4,200 CDN.
- 2001: Research Excellence Envelope International, University of Calgary, \$4,200 CDN.
- 2001: Corporate research grant, Syncrude Canada, Ltd., \$43,000 CDN. *co-PI with A. Russell.*

Patrick S. Druckenmiller—Curriculum vitae

Invited Seminars

2005: University of California-Berkeley Museum of Paleontology

2006: Montana State University

2007: University of Nebraska-Lincoln

2011: University of Cambridge

2012: Institute of Arctic Biology, University of Alaska Fairbanks

2008, 2012: Department of Geology and Geophysics, University of Alaska Fairbanks

Meeting Presentations

[For multiauthored presentations, the presenter is indicated by **bold** text, undergraduate advisees are indicated with (^U), graduate advisees are indicated with a (^G), museum technicians working in my lab are indicated with (^T), and graduates on whose committee I serve are indicated with (^C).]

Druckenmiller, PS, JH Hurum, EM Knutsen & HA Nakrem. 2011. An exceptional new ichthyosaur from the Upper Jurassic Agardhfjellet Formation (Volgian), Svalbard, Norway. *Oral presentation, Annual meeting of the Society of Vertebrate Paleontology, Las Vegas, NV.*

Stack^G, KP & PS Druckenmiller. 2011. Anatomy and relationships of a new Turonian hadrosauroid from the Matanuska Formation of southern Alaska. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, Las Vegas, NV.*

Fowell, SJ, PS Druckenmiller, P McCarthy, R Blodgett & KC May. 2011. Paleoecology of Alaska's Jurassic Park. *Poster presentation, Annual Meeting of the Geological Society of America, Minneapolis, MN.*

Druckenmiller, PS, KC May, R Blodgett, P McCarthy & S Fowell. 2011. First record of Jurassic dinosaurs in Alaska from the Naknek Formation (Kimmeridgian-Tithonian), Peninsular terrane. *Poster presentation, Sixth International Conference on Arctic Margins, Fairbanks, Alaska.*

Druckenmiller, PS, M Whalen & N Kelley. 2010. An Upper Triassic (Norian) ichthyosaur with gut contents from the Otuk Formation, Western Brooks Range, Alaska. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, Pittsburgh, PA.*

Brown, CM & PS Druckenmiller. 2010. Basal ornithopod (Dinosauria: Ornithischia) teeth from the Prince Creek Formation (Campanian-Paleocene) of Alaska. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, Pittsburgh, PA.*

Druckenmiller, PS, JH Hurum, EM Knutsen & HA Nakrem. 2009. A new marine reptile assemblage from the Agardhfjellet Formation (Upper Jurassic; Tithonian), Svalbard archipelago, Norway. *Oral presentation, Annual meeting of the Society of Vertebrate Paleontology, Bristol, UK.*

Knutsen^C, EM, PS Druckenmiller & JH Hurum. 2009. Preliminary account of new Late Jurassic pliosaurid material from Svalbard, Norway. *Oral presentation, Annual meeting of the Society of Vertebrate Paleontology, Bristol, UK.*

May^T, KC & PS Druckenmiller. 2009. A dinosaurian ichnofossil assemblage from the Nanushuk Formation, National Petroleum Reserve – Alaska. *Poster presentation, Alaska Geological Society Annual Technical Conference, Fairbanks, Alaska.*

Patrick S. Druckenmiller, Curriculum vitae

- Parsons^U, J** & PS Druckenmiller. 2009. Preliminary interpretation of an Upper Triassic (Norian) ichthyosaur from the Otuk Formation, western Brooks Range, Alaska. *Poster presentation, Alaska Geological Society Annual Technical Conference, Fairbanks, Alaska.*
- Hurum, JH**, PS Druckenmiller, EM Knutsen & H.A. Nakrem. 2008. A preliminary report on a new Late Jurassic marine vertebrate Lagerstätte from Svalbard. *Oral presentation, 33rd International Geological Congress, Oslo, Norway.*
- Druckenmiller, PS**, & AP Russell. 2008. An early North American occurrence of Polycotyliidae (Plesiosauria) from the Clearwater Formation (Early Cretaceous: Early Albian) of northeastern Alberta, Canada. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, Cleveland, OH.*
- Knutsen^C, EM**, PS Druckenmiller, JH Hurum & HA Nakrem. 2008. Preliminary account of new Upper Jurassic pliosaurid material from Svalbard, Norway. *Oral presentation, Actas III Congreso Latinoamericano de Paleontología de Vertebrados, Neuquén, Argentina.*
- Druckenmiller, PS**, JH Hurum, EM Knutsen & HA Nakrem. 2008. Tithonian marine reptiles of Svalbard, Norway and the Neuquén Basin, Argentina: A preliminary comparison of diversity and paleoenvironments. *Oral presentation, Actas III Congreso Latinoamericano de Paleontología de Vertebrados, Neuquén, Argentina.*
- Druckenmiller, PS**, & AP Russell. 2006. A phylogeny of Plesiosauria (Sauropterygia) with emphasis on the systematic status of *Leptocleidus*, Andrews 1922. *Oral presentation, Annual meeting of the Society of Vertebrate Paleontology, Ottawa, ON.*
- Russell, AP** & PS Druckenmiller. 2005. Palaeoecology on an industrial scale: marine vertebrates from the Fort McMurray Oil Sands Mine. *Poster presentation, annual meeting of the Canadian Society of Zoologists.*
- Druckenmiller, PS**, & AP Russell. 2005. A mine of information: palaeoenvironmental associations of a sauropterygian community in northern Alberta, Canada. *Poster presentation, 5th World Congress of Herpetology, Stellenbosch, South Africa.*
- Druckenmiller, PS**, & AP Russell. 2004. A new plesiosaur from the Lower Cretaceous (Lower Albian) Clearwater Formation from northern Alberta, Canada. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, Denver, CO.*
- Druckenmiller, PS**, & AP Russell. 2003. A preliminary report on a diverse assemblage of Early Cretaceous plesiosaurs and ichthyosaurs from the Clearwater Formation, northern Alberta, Canada. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, St. Paul, MN.*
- Druckenmiller, PS**, & J-P Zonneveld. 2002. Depositional environments of an Early Cretaceous plesiosaur and ichthyosaur assemblage from the Clearwater Formation, Western Interior Basin. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, Norman, OK.*

Patrick S. Druckenmiller—Curriculum vitae

Druckenmiller, PS. 1999. Osteology and relationships of a new plesiosaur from the Thermopolis Shale of Montana. *Poster presentation, Annual meeting of the Society of Vertebrate Paleontology, Denver, CO.*

Luikart, EJ, PS Druckenmiller & MA Ivie. 1995. Fossil insects in Renova equivalents, Townsend Basin, southwestern Montana. *Poster presentation, Annual Meeting of the Geological Society of America, Rocky Mountain Section, Bozeman, MT.*

Druckenmiller, PS, AJ Daun, JC Pladziewicz & JL Skulan. 1993. Stomach contents of the Upper Cretaceous shark *Squalicorax falcatus*. *Oral presentation, Annual meeting of the Society of Vertebrate Paleontology, Albuquerque, NM.*

Unpublished research reports

Jacobus, RT & **PS Druckenmiller.** 2012. A review of fossil localities in the proposed Donlin Natural Gas Pipeline corridor, southwestern Alaska. Prepared for Northern Land Use Research.

PS Druckenmiller. 2008. Survey of Pleistocene vertebrates from the Selawik and Kobuk River areas, northwestern Alaska. Prepared for the U.S. Fish and Wildlife Service, Anchorage, Alaska.

Russell, AP & Associates. 2004. Historical Resource Impact Assessment, Canadian Natural Resources Limited Horizon Mine Project, Palaeontological overview of construction activities for the Horizon Oil Sands Project. Calgary, Alberta. (Report authored by **PS Druckenmiller**).

Russell, AP & Associates. 2004. Historical Resource Impact Assessment, Canadian Natural Resources Limited Horizon Mine Project, Overview report determining the likelihood of impacting palaeontological resources during construction of the D-7 Drainage Works, Outfall to the Tar River, and Plant Site Drainage Outlet System. Calgary, Alberta. (Report authored by **PS Druckenmiller**).

Russell, AP & Associates. 2002. Historical Resource Impact Assessment, Canadian Natural Resources Limited Horizon Mine Project (Royal Tyrrell Museum Project File Number 3948-74E-4; Historical Resource Management File Number 4750-047), Calgary, Alberta. (Report authored by **PS Druckenmiller**).

Professional Experience

Museum of the Rockies, Montana State University Bozeman.

2006-2007: Museum Consultant, Siebel Dinosaur Exhibit.

1999-2000: Bowman Fossil Bank Supervisor.

1996-1997: Crew Chief, Paleontology Field School.

1992-1995: Paleontology Instructor, Paleontology Field School.

Royal Tyrrell Museum of Palaeontology, Alberta, Canada

2001: Fossil preparator.

Geology Museum, University of Wisconsin Madison

1986-1992: Expedition Leader.

1986-1992: Museum technician and fossil preparator.

Patrick S. Druckenmiller, Curriculum vitae

Professional Society Memberships

Society of Vertebrate Paleontology (1994-present)

Symposium co-convener, 2009 annual meeting: *The scientific legacy of Mary Anning: Recent advances in marine reptile paleobiology and evolution*

The Palaeontological Association (2004-present)

Geological Society of America (2008-present)

Arctic Institute of North America (2007-present)

Society of Economic Paleontologists and Mineralogists (2008-present)

External Reviewer

Journal of Vertebrate Paleontology, Palaios, Proceedings of the Geologists Association, Palaeontology, Alcheringia, Zoological Journal of the Linnean Society, Paludicola, Geological Society of America Bulletin, Journal of Systematic Paleontology, Paläontologische Zeitschrift, GeoBios, National Geographic Society Committee on Research and Exploration

Selected Field Experience

2006-2011: Documenting a new marine reptile Lagerstätte from the Jurassic Agardhfjellet Formation, Svalbard, Norway.

2008-2012: Numerous paleontological expeditions in Alaska: 1) Talkeetna Mountains (Cretaceous); 2) Colville River, Sagavanirktok River and Slope Mountain, North Slope (Cretaceous); 3) Alaska Peninsula (Jurassic/Cretaceous); 4) Southeast panhandle (Triassic).

2003, 2007, 2011: Cretaceous marine reptiles from the Bearpaw Shale, Montana

1999, 2001: Triassic marine vertebrates from British Columbia, Canada.

1992-1998: Cretaceous dinosaurs from Cretaceous Two Medicine Formation, Montana.

1986-1991: Cretaceous marine vertebrates from the Smoky Hill Chalk, Kansas.

TEACHING, OUTREACH AND PROFESSIONAL SERVICE

Awards and Honors

2010-2011: Outstanding Teaching Award, University of Alaska Fairbanks Department of Geology and Geophysics

Teaching Experience

University of Alaska Fairbanks:

Life in the Age of Dinosaurs (GEOS 106)

Vertebrate Paleontology (GEOS/BIOL 486/686)

Guest lectures in The History of Life and Earth (GEOS 112), Paleobiology and Paleontology (GEOS 315)

Montana State University:

Paleontology Laboratory and Research Techniques (Geology 330)

Marine Reptile Paleobiology (Geology 580)

Biology 130: Environmental Issues in Society (TA)

Patrick S. Druckenmiller—Curriculum vitae

University of Calgary:

Vertebrate Palaeozoology (TA)
Biology of Vertebrates: birds and mammals (TA)
Introduction to Biology II (TA)

Graduate Students Advised

Kevin P. Stack, M.S. 2012. University of Alaska Fairbanks. Thesis: *Taphonomy and phylogenetic relationships of the Talkeetna Mountains hadrosaur.*

Hirotsugu Mori, Ph.D. student. University of Alaska Fairbanks. Dissertation: *Anatomy and life history strategies of Edmontosaurus sp. from the Upper Cretaceous (early Maastrichtian) Prince Creek Formation of northern Alaska.*

Danielle Serratos, M.S. student. University of Alaska Fairbanks. Thesis: *Anatomy and relationships of a new elasmosaurid (Sauropterygia: Plesiosauria) from the Bearpaw Shale (Campanian), Montana.*

Graduate Student Committees Served

Espen M. Knutsen. 2012. University of Oslo. Thesis: *Late Jurassic plesiosaurians (Sauropterygia – Plesiosauria) from the Agardhfjellet Formation on Svalbard.*

Lene Liebe. 2011. University of Oslo. Thesis: *Gross internal structure and microstructure of plesiosaur limb bones from the Late Jurassic of Svalbard.*

Nille Ragnhild Staubo Munthe-Kaas. 2011. University of Oslo. Thesis: *A study of the propodial morphology on Late Jurassic plesiosaurs from Spitsbergen.*

Undergraduate Student Research Projects Advised

John Scott. Project title: A preliminary study of Late Pleistocene microfossil assemblages from the Fox Permafrost Tunnel, Alaska. 2012

Erica Blake. Project title: Identification of Late Pleistocene large mammalian remains from the Fox Permafrost Tunnel, Alaska. 2012

Carrie Yardley. Project title: A small Late Triassic ichthyosaur from Gravina Island, southeast Alaska. Geist Fund Award, \$1750. 2011-2012

Jacob van Veldhuizen. Project title: An analysis of vertebrate microfossils from the Pediomys Point locality, Prince Creek Formation, northern Alaska. 2010

Jennifer Parsons. Project title: Preliminary interpretation of an Upper Triassic ichthyosaur from the Otuk Formation, western Brooks Range, Alaska. 2009

Charlene Fortner. Project title: Documenting dinosaur tracks from the mid-Cretaceous Nanushuk Formation, northern Alaska, using anaglyph stereophotography. 2008

Matthew Jones. Project title: Survey of bite marks on hadrosaur bones from the Liscomb Bonebed, Prince Creek Formation (Upper Cretaceous), northern Alaska. 2008

Invited Consultations

2011: *Death of a Sea Monster*: National Geographic documentary. Consultant and featured scientist.

2009: *Predator X*: History Channel documentary. Consultant and featured scientist.

Patrick S. Druckenmiller, Curriculum vitae

Selected Public Presentations

2005: Alberta Palaeontological Society

2006: Canadian Institute of Mining, Alberta

2007: Museum of the Rockies, Montana State University

2008: Science for Alaska Lecture, Geophysical Institute, University of Alaska Fairbanks

2009: University of Alaska Museum

2010: Alaska Geological Society

2011: Naknek-King Salmon, Alaska Public Schools

2011: Anchorage Museum, Alaska

REFERENCES

Anthony P Russell, Professor, Department of Biological Sciences, University of Calgary, 2500 University Dr. NW, Calgary, AB T2N 1N4. ph. 403.220.5198, arussell@ucalgary.ca

Don Brinkman, Director of Preservation and Research, Royal Tyrrell Museum of Palaeontology, Box 7500, Drumheller, AB, T0J OYO. ph. 403.823-7131. Don.Brinkman@gov.ab.ca

Greg Erickson, Professor, Department of Biological Science, Florida State University, King Building, 319 Stadium Drive, Tallahassee, FL, 32306-4295. 850.645.4991, gerickson@bio.fsu.edu