

Bison from Alazeya river basin



Omoloyskiy elk



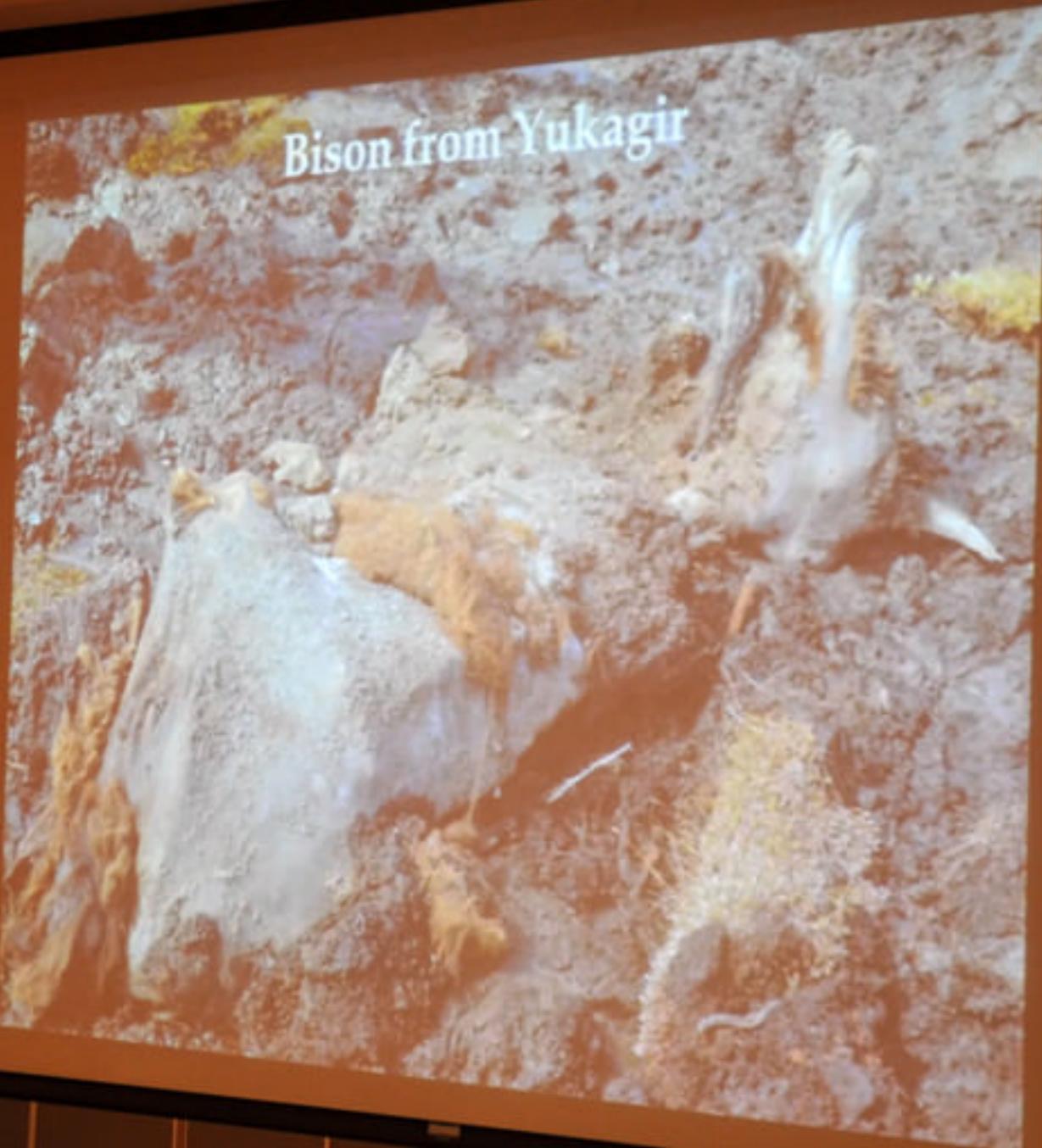
A man in a suit and tie is standing at a podium, speaking into a microphone. He is wearing a green lanyard with a badge. The background is a dark wall with some recessed lighting.

Mummy of ancient wolf pup, 2011



A man in a light-colored shirt and dark trousers stands at a podium, speaking into a microphone. He is gesturing with his hands as he speaks. A small orange cup sits on the podium next to him.

Bison from Yukagir



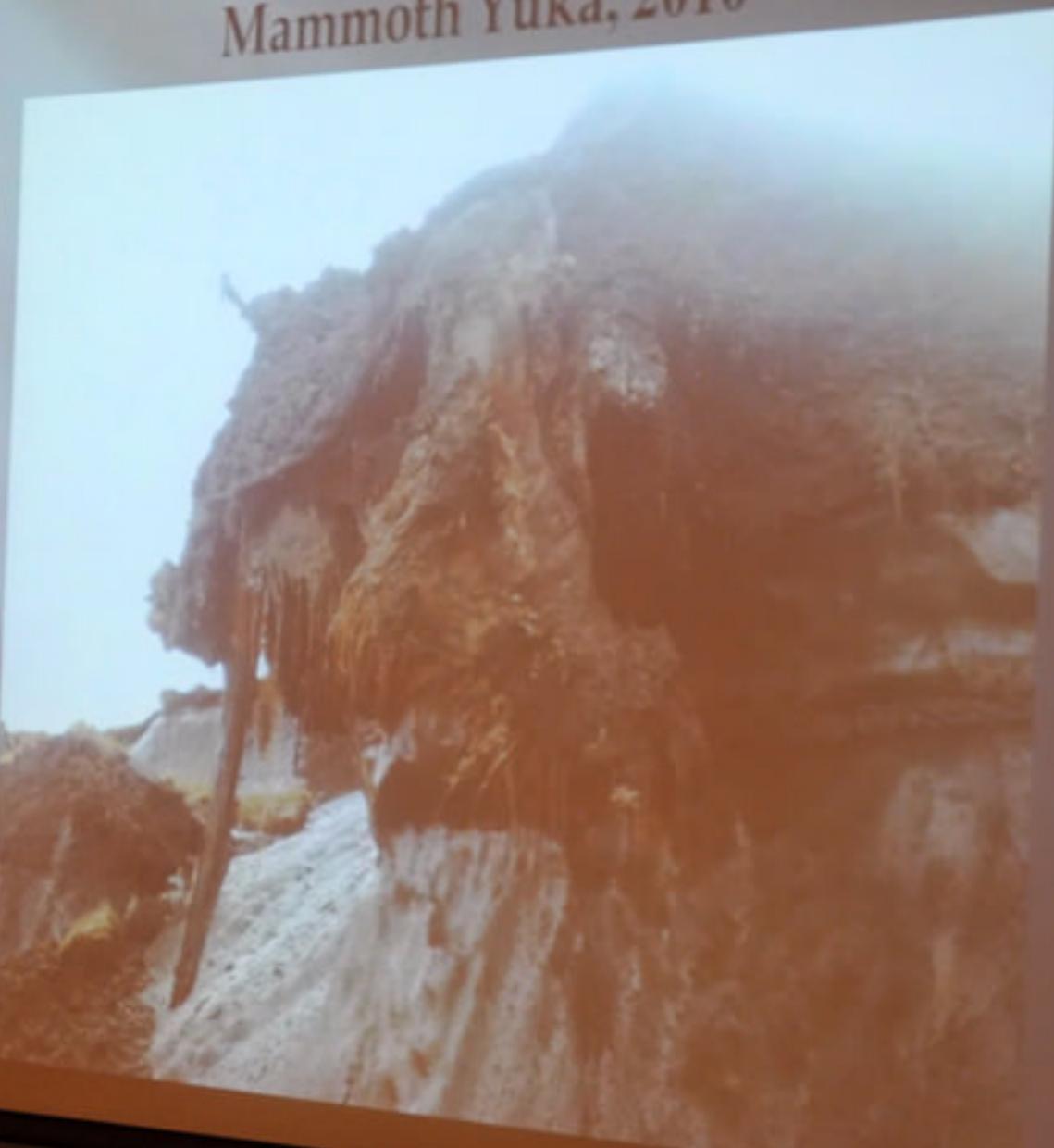
A man with dark hair, wearing a black jacket over a light-colored shirt, sits at a podium in the lower-left foreground. He is looking down, possibly at notes or a device. A green lanyard hangs around his neck. The background behind him consists of wooden paneling.





Two men are standing at a podium in the foreground, looking towards the projection screen. One man is wearing a dark suit and tie, while the other is wearing a light-colored shirt and a green lanyard. They appear to be presenting or discussing the image displayed on the screen.

Mammoth Yuka, 2010



A man with short dark hair, wearing a light-colored shirt and a green lanyard, is seated at a podium on the left side of the frame. He appears to be speaking or presenting, as he is looking towards the right where the projection screen is located. The background behind him is a dark wooden wall with several circular holes, possibly for acoustics or ventilation.



Two men are seated at a podium in the foreground, facing the audience. One man is wearing a dark suit and tie, and the other is wearing a light-colored shirt and a green lanyard. They appear to be presenting or speaking to the audience.

Take in underground natural freezer



A man with short dark hair, wearing a light-colored button-down shirt and a green lanyard, stands at a podium on the left side of the stage. He is speaking into a microphone and gesturing with his hands. Another person is partially visible behind him, also near the podium.



The first Russian-Korean expedition to the North Yakutia
to search for the remains of mammoths







Arctic Ocean



East Siberian Sea



Malolyakhovskiy mammoth

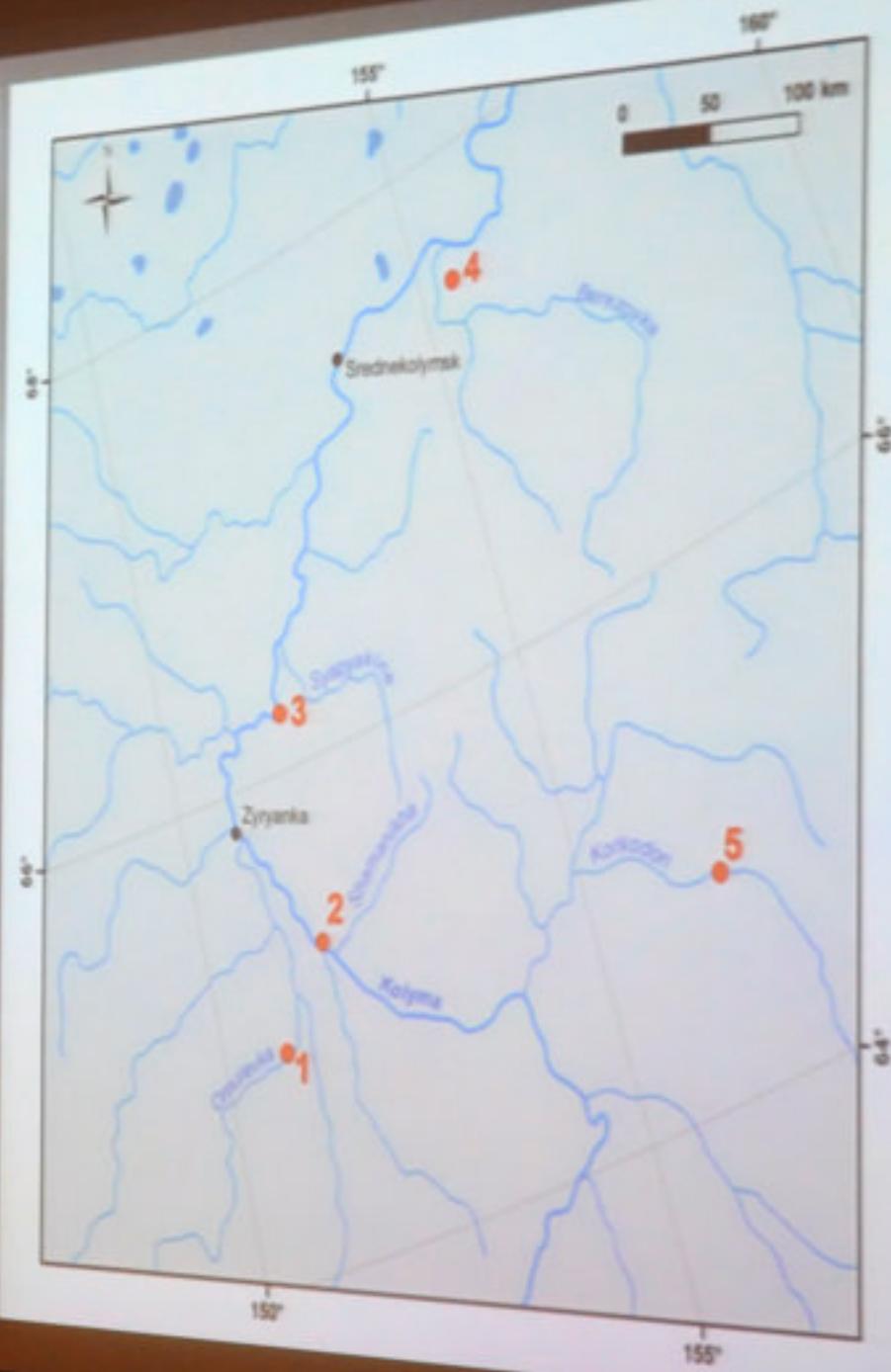


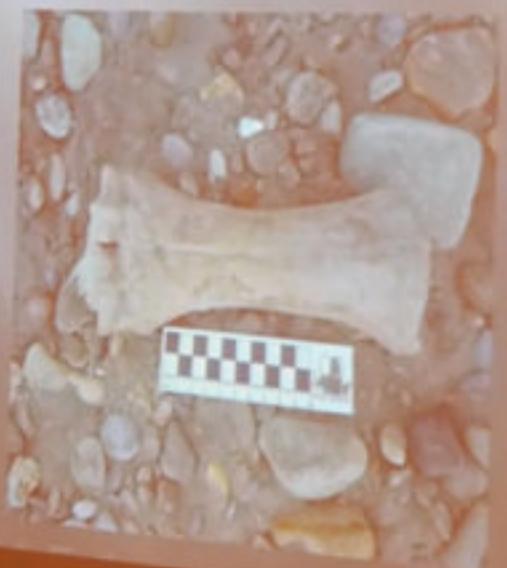




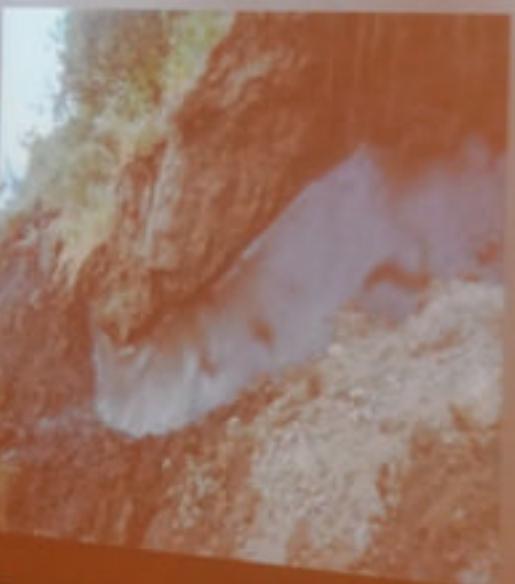
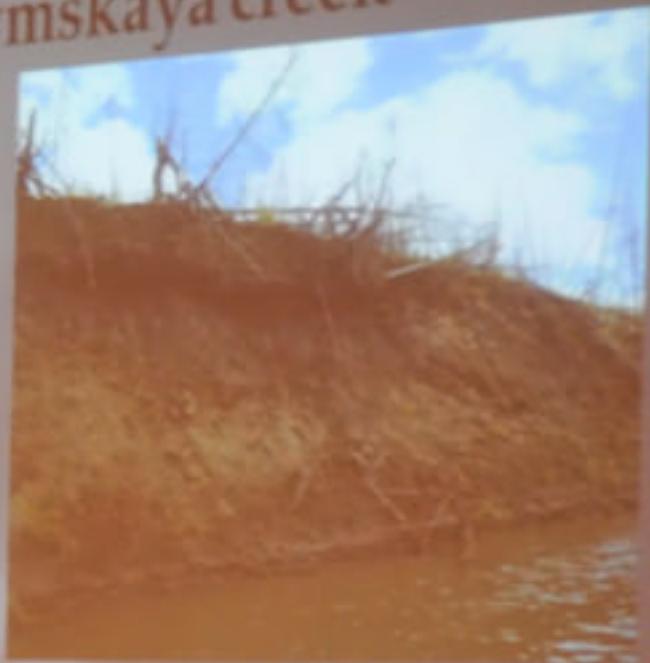
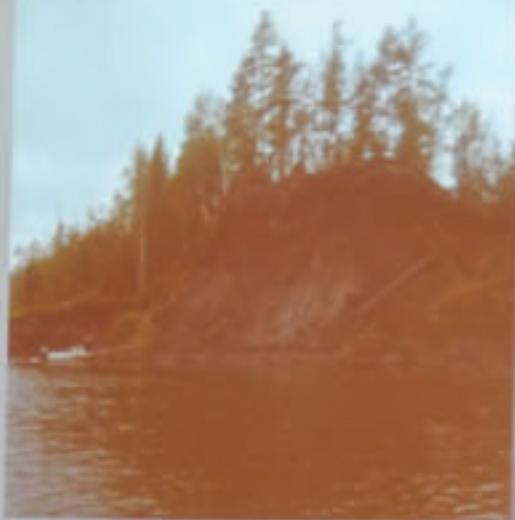
John

- 
1. The Omulevka River
2. The Pravokolymskaya creek
3. The Irileah Siene River
4. The Berezovka River
5. The Korkodon River





The Pravokolymskaya creek





John C. Staubach
University of Texas at Austin

The Irileah Siene River



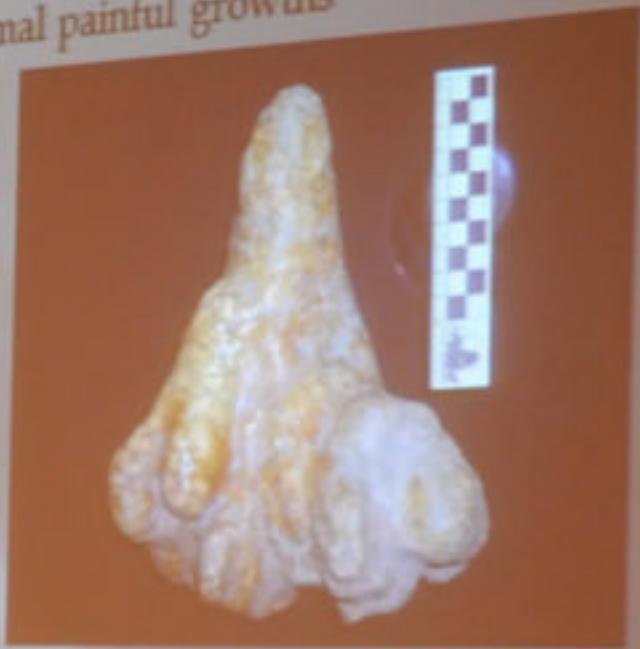


John

Mammuthus primigenius primigenius (=a later form of mammoth)



The tusk with abnormal painful growths



The tusks with abnormal painful growths from other places

Toybohoy village

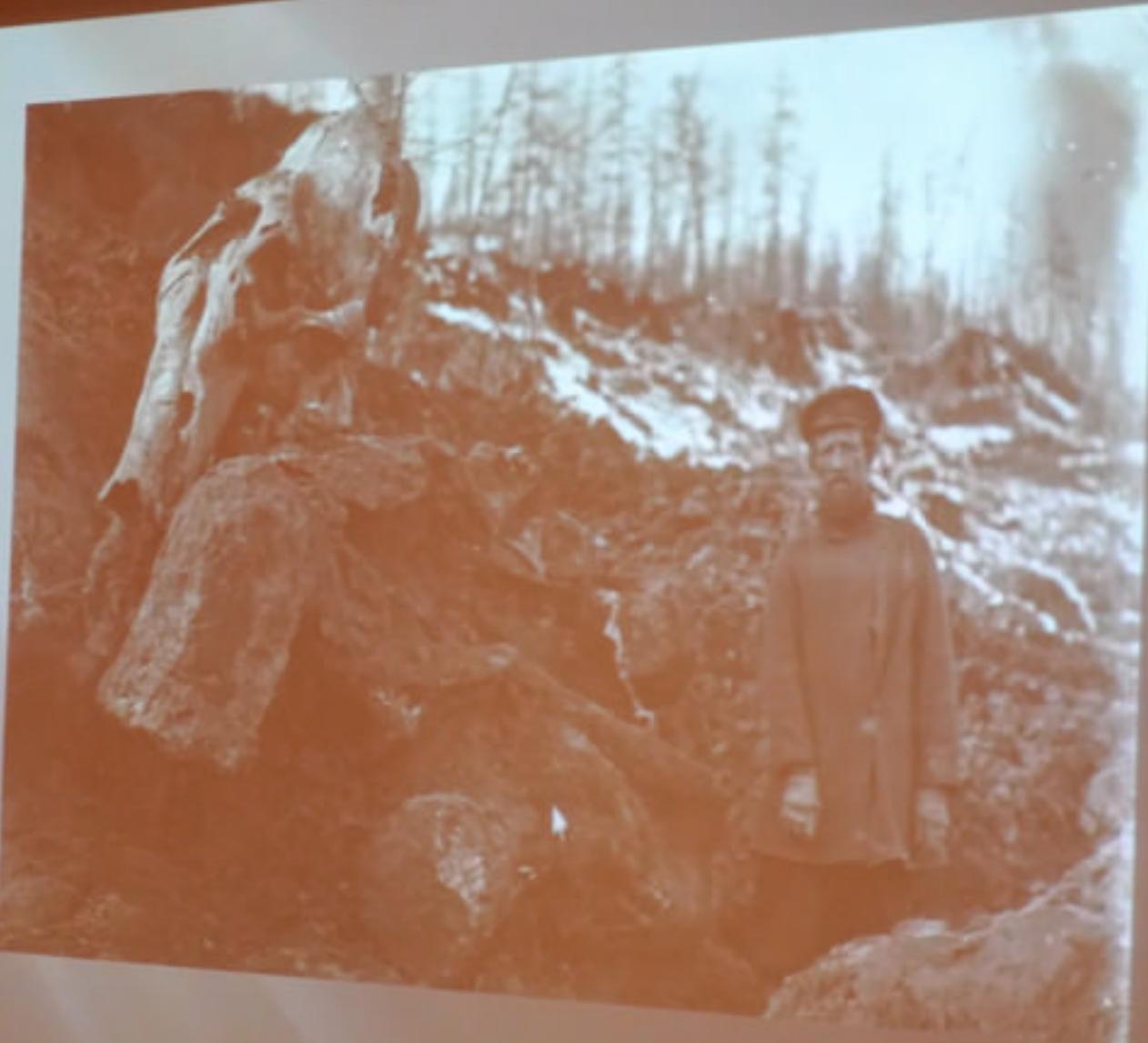


Bolshoi Lyakhovskiy Islands



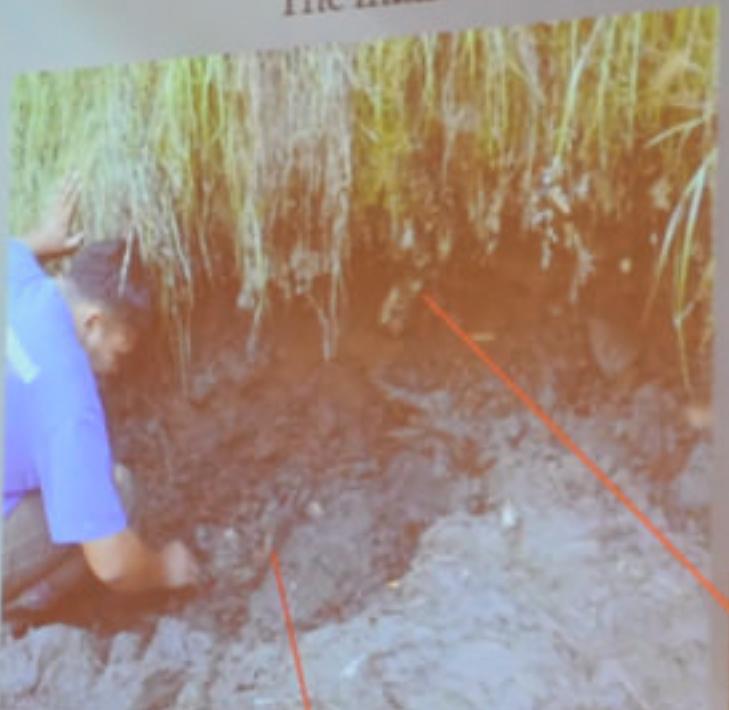
The Berezovka River





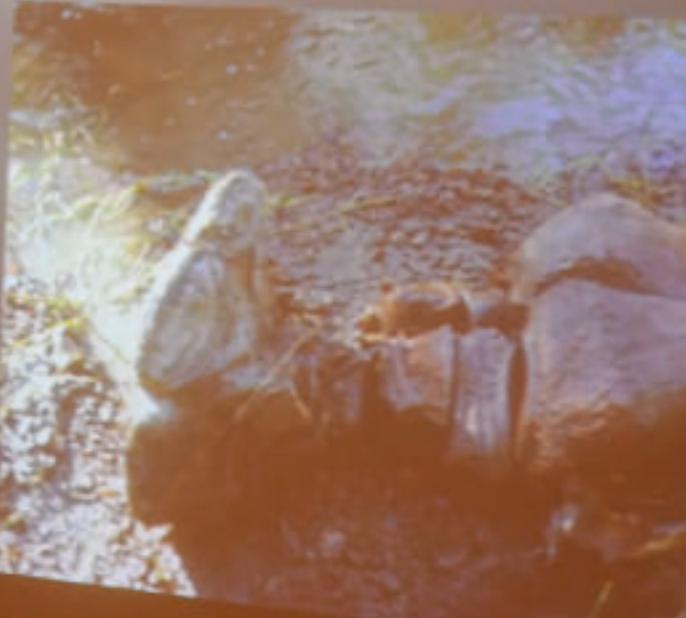
Berezovskiy mammoth, 1900

The main carcass in the permafrost



vertebra

Front leg from the permafrost



"ALEXANDRU ROȘCA" spider collection in
"GRIGORE ANTIPA" NATIONAL MUSEUM OF
NATURAL HISTORY (BUCHAREST)



Alexandru Roșca

THE INTEGUMENT OF TRACHELIPUS TROGLOBOVIS – EVOLUTIONARY ADAPTATIONS LINKED TO THE CAVE ENVIRONMENT

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INTRODUCTION

Intrinsic specific evolutionary adaptations are known in numerous invertebrates inhabiting permanently the cave environment. Morphological structures of the integument of tricholepids, isotropids represent one example of such adaptations. The micro-scale and other corresponding structures of the surface equipment have a significant role in minimizing the friction and the normal functioning of their cuticle by preventing small particles of sediment from sticking to the body surfaces (Schubert 1970). Trachelepis troglobius (Tatáracs & Bagházi 1998) is one of the three tricholepid species (Diplopoda, Oniscidea) described from the Móra Cave, one of the most important and unique hypogeaean cave systems (Tatáracs & Bagházi 1998, Giurgiu & Cacic 2003, Giurgiu, Nai & Vlăduță 2009). Detailed investigation of the cuticle structures has been undertaken using scanning electron microscopy (SEM, PSEM-5010) in order to elucidate to which extent the cave environment has considerably influenced the morphological structures of the body surface of the species.

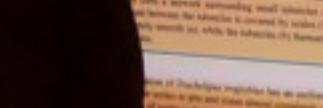
SEM DESCRIPTION OF THE *Trachelepis troglobius* INTEGUMENT STRUCTURES



The cuticle is covered by distinct smooth-looking scales (1) the outer body has a smoother surface than the rest of the segment with oval-shaped protrusions (2) between scales.



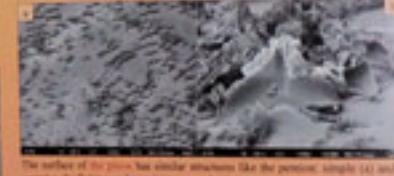
Irregular-looking scales (6) and small rounded pits (7). Two types of surface are observed: (a) simple formed by a single flaking sheet and (b) formed by several flaking sheets.



The surface forms a network surrounding small tubercles (10) the tubercles are separated by small depressions (11). The surface is relatively smooth (12), while the tubercles (13) have microvilli (14).



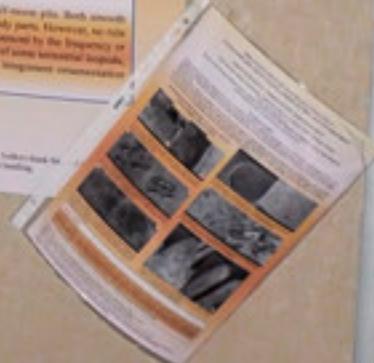
The pits (15) were left after the scales remaining after the incomplete flaking of the scales. Alternatively, the segment is completely smooth (16).



The surface of the troglobiont (18) has similar structures like the previous sample (14) and complete (15) flaking scales and pits cover the integument.



The surface of the troglobiont (21) is densely covered by scales with the exception of a few areas forming only pits. The cuticle (22) of the troglobiont (21) is covered by dense, large scales.



Molecular confirmation of *Anadara kagoshimensis* (Tokunaga, 1906) (Mollusca: Bivalvia) in Adriatic and Black Seas

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INTRODUCTION

Anadara kagoshimensis Tokunaga, 1906 (Fig. 1A) and *A. inconstans* (Bogeme, 1796) (Fig. 1B) are two very similar ark species originating from the Indo-Pacific region.

Until 2010 *A. kagoshimensis* has been misidentified in the Mediterranean and the Black Seas under the name of *Anadara inconstans* (Pfeiffer, 1844) and *A. inconstans*, respectively, as an alien invasive species (Fig. 1C). In the Black Sea, the species was observed in the Adriatic Sea since the 1960s and was later recorded as *A. inconstans* by Gherardi (1972). In the Black Sea, the species was first recorded in 1984 by Dumitru as *S. inconstans*. The morphological differences between *A. inconstans* specimens from the native area (Asia and Philippines) and specimens of *A. inconstans* from Europe were noticed by Lazarova in 2008. Lazarova (2008) determined that *Anadara kagoshimensis* (Tokunaga, 1906) is the valid name for the invasive ark species present in Europe. The author concluded that there are no marked differences in shape, pigments, incompatibility, number of ribs, shell sculpture and meat color between studied ark species from Japan (the valid name of *A. kagoshimensis*) and European specimens. It is presumed that the European *A. inconstans* has been introduced from natural water from Japan.



Figure 1. Ark shells: A – *Anadara kagoshimensis* (Tokunaga, 1906); B – *A. inconstans* (Bogeme, 1796); C – *A. inconstans* from the Black Sea; D – *A. inconstans* from the Black Sea.

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METHODS

Our study was performed on specimens collected from both the Black Sea (Caspian, Black and Azovian) and the Adriatic Sea (Adriatic Islands) (Fig. 2). The morphology of shells collected from Adriatic (Fig. 1C) and Black (Fig. 1D) seas was assessed according to Lazarova (2008).

Total genome DNA was extracted from molluscs obtained from both introduced ark species (Tokunaga?; Lazarova?) (Macherey-Nagel GmbH & Co. KG, Düren, Germany), according to the procedure presented.

We analyzed the nuclear 28S-rRNA (ITS1 domain) (Transcribed spacer – ITS) in our specimens and we compared them with sequences of *A. inconstans* from the native area of the species, available from Genbank (accession no. AB527396.1). A total number of four sequences were analyzed: two from the Black Sea (one from each population), one from the Adriatic Sea and one from the Pacific Ocean. The sequences were obtained using the NCBI BLAST program following the procedure of Lazarova.

RESULTS AND CONCLUSIONS

The incongruity of the data from the analyzed European specimens is similar to that of *A. kagoshimensis* from Japan. We also measured diversity of 98.6% between the sequences from the European specimens and 98.6% from the native area. The similar shell morphology and the high percentage identity between the ITS1 rRNA sequences confirm the presence of *A. kagoshimensis* in the two European seas.

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Annual Zoological Congress of "Grigore Antipa" Museum
First record of *Sterna hirundo* nesting inside Bucharest

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² "Dimitrie Brândză" National Museum of Natural History, Str. Al. I. Cuza nr. 1, Sector 1, Bucharest, Romania; e-mail: g.d.nazareanu@yahoo.com

INTRODUCTION

The common tern (*Sterna hirundo* Linnaeus, 1758) is a frequent summer guest, arriving from their winter quarters in the second half of April.

The species is breeding all-coastal marshes and islands, but also on the shores of inland lakes, as well as partially freshwater flocks or makes colonies near salt or brackish vegetations, in which case the nest is more often than not being reared in dense thickets.

The total nests in single or mixed colonies and, more rarely, in isolated pairs.

The brood consists of between one and three eggs, incubated for 20–21 days by both parents. The chicks are white or yellow at hatching and are fed by both parents for up to 24 days when they are able to fly (Clement, 1982, 2000; Stotz, 2008).



An increased pair of common terns has nested on an artificial "island" located between two bays on the Donji Lacu Lake for four years: 2010, 2011, 2012 and 2013.

Photo: Andrei Giurginca

© Andrei Giurginca

Photo: Andrei Giurginca





Molecular confirmation of *Anadara kagoshimensis* (Tokunaga, 1906) (Mollusca: Bivalvia) in Adriatic and Black Seas
Ana-Maria Krupić¹, Alexandra-Florina Levărlă², Dana Paula Popa¹, Elena Iulia Iorgu¹ and
Luis Ovidiu Popa¹

INTRODUCTION

Anadara kagoshimensis (Tokunaga, 1906) (Fig. 1a) and *A. imbricata* (Bivalvia, 1798) (Fig. 1b) are two very similar arcaid species originating from the Indo-Pacific region.

Since 2010 *A. kagoshimensis* has been misidentified in the Mediterranean and the Black Seas under the name of *Glycymeris imbricata* (Reeve, 1864) and *A. imbricata*, respectively, as an older synonym species.

As far as our species was observed in the Adriatic Sea since the 1980s and was later reported as *A. imbricata* by Gherardi et al. (2003), in the Black Sea, the species was first recorded in 1986 by Dilek et al. as *Z. imbricata*. The morphological differences between *A. kagoshimensis* specimens from the Black Sea and those from Japan were noticed by Lohman et al. (2006). Kuban (2010) determined that Adriatic *Argonauta argo* (Linnæus, 1758) in the east name for the Adriatic and Black species were India and Philippines and specimens of *A. imbricata* from Europe were misnamed by Lohman et al. (2006). Kuban (2010) determined that Adriatic *Argonauta argo* (Linnæus, 1758) in the east name for the Adriatic and Black species present in Europe. The author concluded that there are no marked differences in shell features, morphologically, number of the apical sculpture and even color features stated specimens from Japan (the native area of *A. kagoshimensis*) and European specimens. It is presented that the European *A. imbricata* have been introduced from Indian water from Japan.



Figure 1. (a) *Anadara kagoshimensis* (Tokunaga, 1906); (b) *Anadara imbricata* (Bivalvia, 1798); (c) *Zizyphus imbricata* from the Black Sea; (d) *Zizyphus imbricata* from Japan.

In this study we used molecular methods to confirm the presence of *A. kagoshimensis* in Europe.

METHODS

The study was performed on specimens collected from both the Black Sea (former Crimea and Novorossiysk) and the Adriatic Sea (Marassi di Trsteno, Croatia). The morphology of shells collected from literature (Fig. 1c) and those in form (Fig. 1b) were assessed according to Lohman et al. (2006).

Tissue samples (DNA) were extracted from muscle or mantle tissue of each individual using NucleoSpin® Tissue kit (Macherey-Nagel GmbH & Co. KG, Düren, Germany) according to the producer's protocol.

The extracted DNA (ca. 0.5 μg) (Table 1) (using Transferring Device 10, 10 μl) was compared them with reference DNA (ca. 0.5 μg) (using Transferring Device 10, 10 μl) of the species available from GenBank (National Center for Biotechnology Information, Bethesda, Maryland, USA). A total number of 50 individuals were analyzed (20 from the Black Sea (one of each subspecies), 10 from the Adriatic Sea and 10 from the Indo-Pacific Ocean). The sequences were obtained using the PCR-RFLP analysis following the protocol in publications.

RESULTS AND CONCLUSIONS

The morphology of the shells from the analyzed European specimens is similar to that of *A. kagoshimensis* from Japan. We also observed an identity of 100.00% between the sequences from the European specimens and those from the native area. The low shell microstructure and the high percentage identity between the 16S rRNA sequences confirm the presence of *A. kagoshimensis* in the two European seas.

ACKNOWLEDGEMENTS

We thank Dr. S. Lohman (University of California, Berkeley, USA) for the identification of the specimens and Dr. M. Kuban (University of Split, Croatia) for the morphological analysis.

Financial support was provided by the Ministry of Science and Education of the Republic of Croatia (Project No. 098-0982734-0801).

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Received: 10 January 2012; accepted: 10 April 2012; published online: 10 May 2012.

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Published online in *Zoologia* at www.zoologica.org on 10 May 2012.

DOI: 10.1111/j.1465-3120.2012.02652.x

ISSN: 1465-3120 print/1465-3138 online

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Molecular confirmation of *Anadara kagoshimensis* (Tokunaga, 1906) (Mollusca: Bivalvia) in Adriatic and Black Seas
Alessandra Florina Levanda^a, Dana Paule Popa^b, Elena Iulia Iorgu^a and
Lata Ovidiu Popa^b

Molecular confirmation of *Anadara brasiliana* (1906) (Mollusca: Bivalvia) in Adriatic and Black Seas
Alessandra-Florina Levîndă^a, Dana Paulina Popă^a, Elena Iulia Iorgu^a and
Luis Coddou Popă^b

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INTRODUCTION
Acanthocephala (Thomasset, 1965) Pg. 161 and *A. transversum* (Suzuki, 1785) Pg. 161 are here used under their species originating from the East-Pacific region.

Acanthocephala has been misclassified in the Mediterranean and the Black Sea under the name of *Dipylidium* (see Cleven, 1967) and its congeneric relationships, as an alien invader species.

The old name species was described in the Atlantic Sea since the 1600's and was later reported as E. covered by Gmelin (1770), in the Black Sea, the species was first recorded to 1904 by Tschitscherine. This misclassification of *Acanthocephala* in European waters has led to confusion between the Atlantic and Mediterranean and congenericism of *A. cf. transversum* from Europe with the name of the European old name species present in Europe. The author concluded that there are no morphological differences in shape, largely inseparably, however of this, the life cycle and even lower taxonomic shifted according from Japan the name was of *A. transversum* and European specimens. It is presumed that, *A. transversum* from Japan has been introduced from ballast water from Japan.



Figure 1. The European multilateral audit system: 2002-03 as it stands in December 2002. Source: OECD, 2003.

police used the most effective methods to reduce the crime rate.

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The study was performed on specimens collected from both the South West plateau (Dales and Wimbleball) and the Arid zone (South of Laramie) (Fig. 2). The morphology of plants collected from Laramie (Fig. 10) and Dales (Fig. 11), are presented.

Type proteins that are converted from inactive or inactive forms of each molecule using *Rhodopsin*? Tissue #2 (*Macropus Nigra*) (Green & Co., 1952). Stern-Germer, according to this procedure is present.

the assessment. We followed DIAA protocol (1993) (unpublished manuscript). In all, six assessments were made, and each was accompanied by a questionnaire of 12 questions concerning how the names given to the various assessors were distributed. The number of responses to each question were proportional to the total number of assessors (see Methods). Data from the three questions for each questioner were pooled, and then the mean for each questioner was calculated, and then the average for all the questioners.



Figure 2. The same areas of the hippocampus prefer and encode positive past and the recent future predictions.

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conservancy of the nucleic acids from the whitened European specimens is similar to that of *A. agassizii* from Japan. We observed an identity of 96.0% between the sequences from the European specimens and those from the native area. Consistently, the high percentage identity between the ITS1 DNA sequences confirm the presence of *A. agassizii* in the two European areas.

10. The following table shows the number of hours worked by each employee in a company.

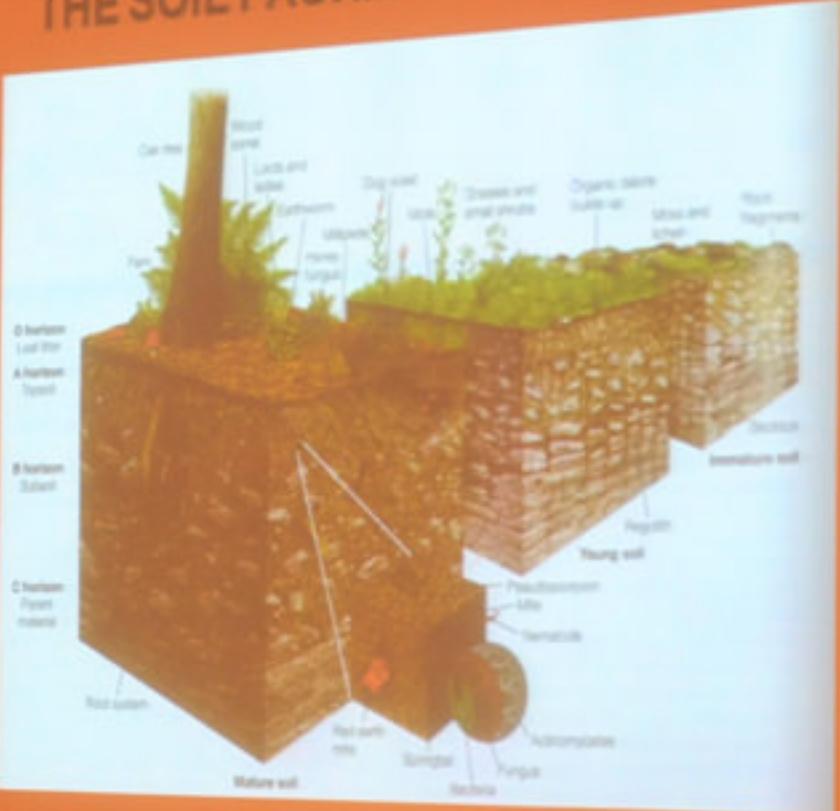
Wolff, J., & Sauer, J. (2002). The relationship between organizational culture and performance: A meta-analysis. *Journal of Management*, 28, 513-551.

Molecular confirmation of *Anadara kagoshimensis* (Tokunaga, 1966) (Mollusca: Bivalvia) in Adriatic and Black Seas
Ana-Maria Krstić^{1,2}, Ana-Maria-Pauna Lazără¹, Diana-Paula Popă¹, Elena-Auria Iorgu¹ and
Iulia-Doina Popă¹





THE SOIL FAUNA



* "full-time inhabitants" (many micro- and mesoarthropods, earthworms and macroinvertebrates) (Walters, 2001)

* "part-time inhabitants" of soil (like many vertebrates, soil dwelling insect, larvae or mound-building insects) (Walters, 2001).





Coprophilous beetles (Coleoptera) associated with
feces of brown bear (*Ursus arctos* Linnaeus, 1758)
in the Carpathians

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