

ETNOARHEOLOGIA IZVOARELOR DE APĂ SĂRATĂ ȘI A MUNȚILOR DE SARE DIN ZONA EXTRACARPATICĂ A ROMÂNIEI

CNCS, PN-II-ID-PCE-2011-3-0825, Nr. 219/5.10.2011

Director: Conf. univ. dr. Marius-Tiberiu ALEXIANU, UAIC Iași



Unitatea Executivă pentru
Finanțarea Învățământului Superior,
a Cercetării, Dezvoltării și Inovării

Echipa

Arheologie
Etnoarheologie
Istorie
Geografie
Chimie
Lingvistică
Etnologie
Antropologie culturală

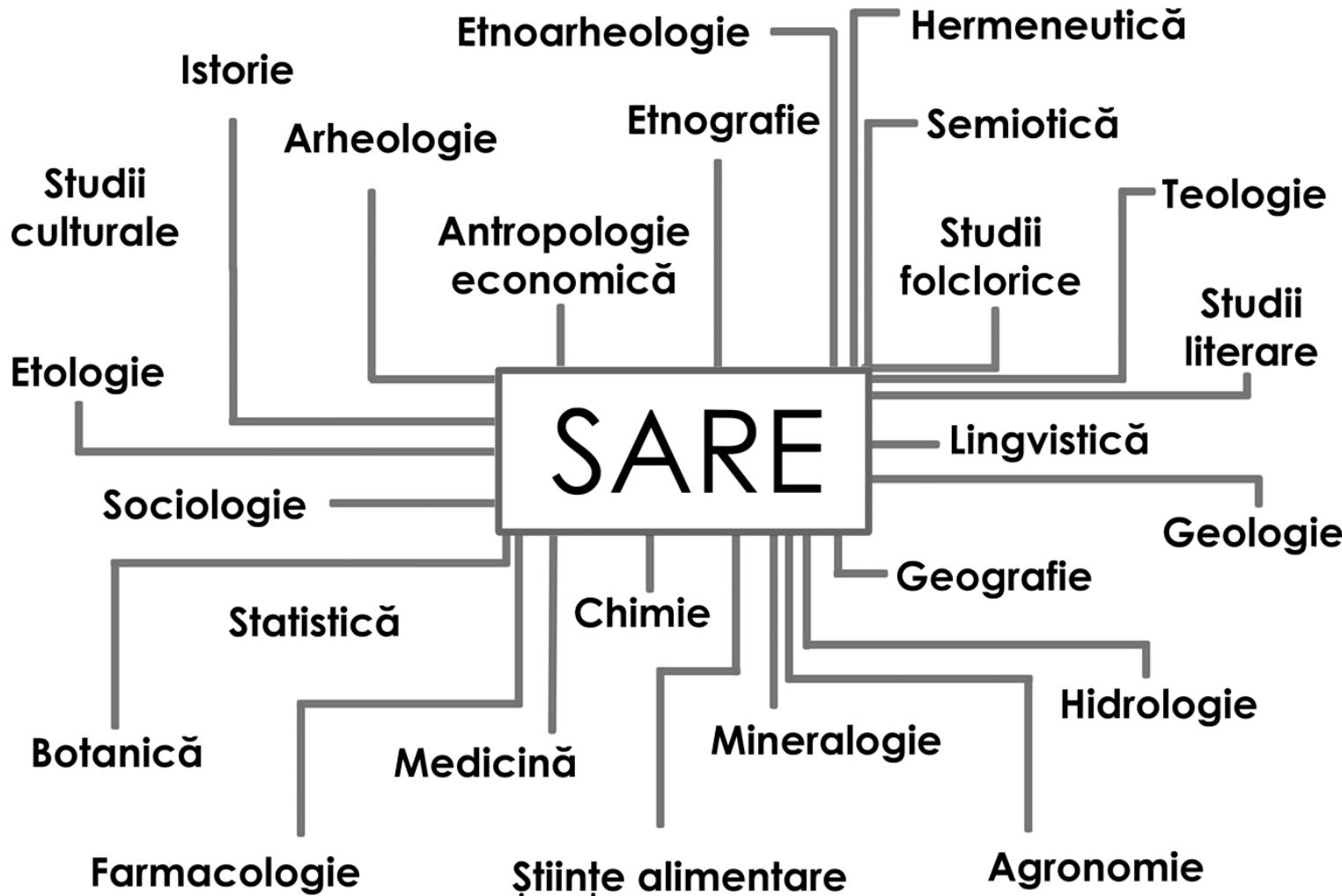
Marius Alexianu *
Olivier Weller ***
Ion Sandu *
Gheorghe Romanescu *
Robin Brigand **
Roxana-Gabriela Curcă *
Vasile Cotiugă *
Felix-Adrian Tencariu *
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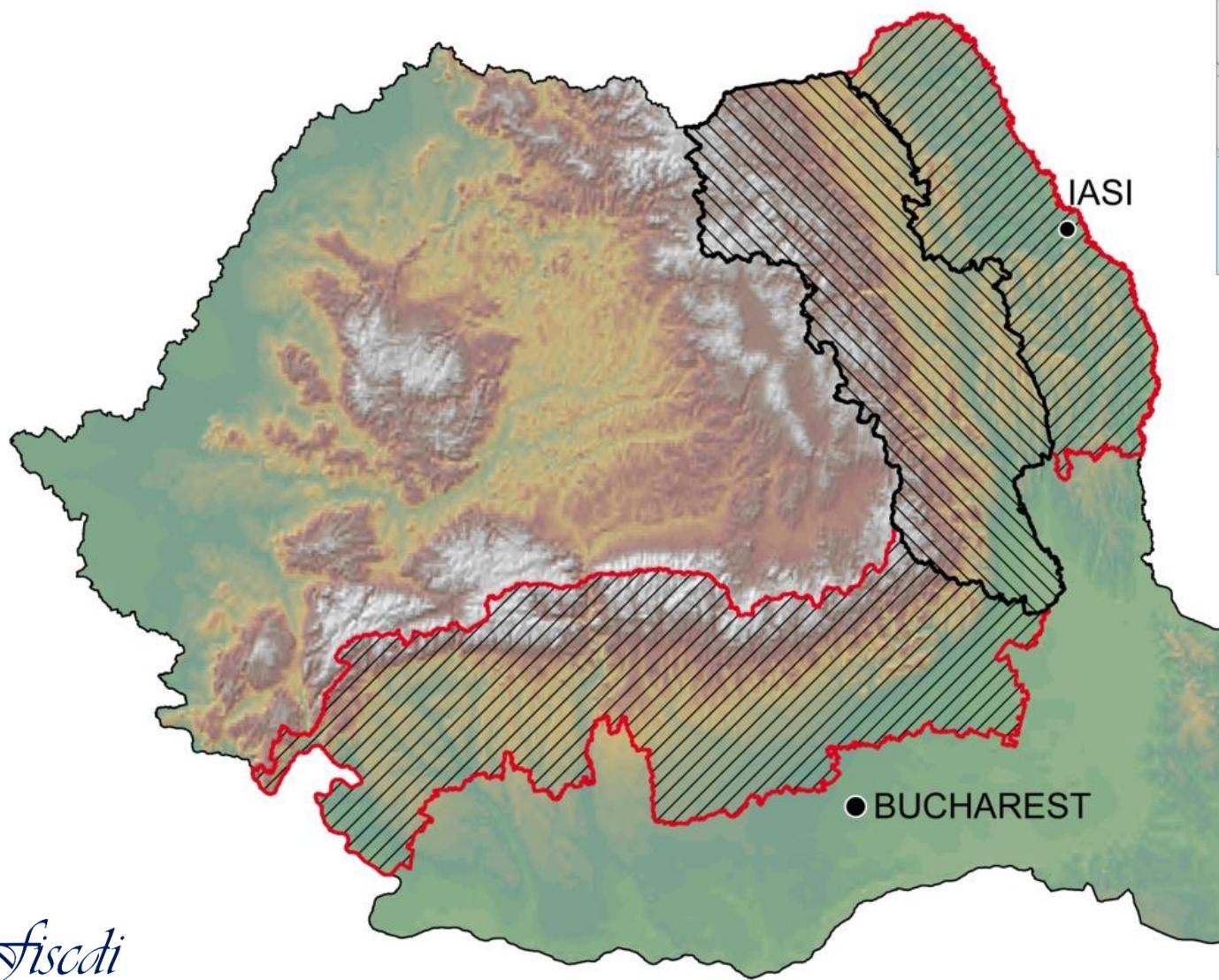
*** CNRS, Université Paris 1 Panthéon Sorbonne

ANTROPOLOGIA SĂRII: ȘTIINȚE ȘI DISCIPLINE IMPLICATE



ANTROPOLOGIA SĂRII: TEMATICI





Cercetări de teren



Arheologie experimentală: o premieră mondială

Dr. Felix Tencariu (etnoarheolog) a reușit, pentru prima dată în lume, să obțină, la capătul unei serii întregi de experimente, prima formă de sare ignigenă prin utilizarea vaselor de tip *briquetage*.



Publicații ISI

- Marius Alexianu, Ion Sandu, Roxana-Gabriela Curcă, *Fire, Brine and Wood: The First Nutritional Supplement in the Inland World*, Mankind Quarterly, Vol. 52, Nos. 3-4 (Spring-Summer 2012), p. 414-427.
- Andrei Asăndulesei, Lăcrămioara Istina, Vasile Cotiugă, Felix-Adrian Tencariu, Ștefan Caliniuc, Radu-Ştefan Balaur, Ana-Petronela Crețu, Cristi Nicu, Bogdan Benedict, *Cesium magnetometer survey in the Cucuteni settlement of Fulgeriș – La Trei Cireși, Bacău County, Romania*, Romanian Reports in Physics, Volume 64, Number 3, 2012, p. 878-890.
- Robin Brigand, Andrei Asăndulesei, Olivier Weller, Vasile Cotiugă, *Contribution à l'étude du peuplement chalcolithique des bassins hydrographiques du Bahluet et du Valea Oii (dép. Iasi)*, Dacia N.S., tome LVI, 2012, p. 5-32.
- Gheorghe Romanescu, Monica-Anca Crețu, Ioan-Gabriel Sandu, Elena Păun, Ion Sandu, *Chemism of streams within the Siret and Prut drainage basins: water resources and management*, Revista de Chimie, vol.64, no.12, 2013, p. 1416-1421.
- Ion Sandu, Viorica Vasilache, Marius Alexianu, Roxana Curcă, *Chemical explanation of an original milk curdling ethnoprocedure by natural brine*, Revista de chimie, vol.65, no.1, 2014, p. 120-122.
- Gheorghe Romanescu, Elena Păun, Ion Sandu, Ionuț Jora, Emilian Panaiteescu, Ovidiu Machidon, Cristian Stoleriu, *Quantitative and qualitative assessments of groundwater into the catchment of Vaslui river*, Revista de Chimie, vol. 65, no.4, p. 401-410, 2014.
- Gheorghe Romanescu, Ion Sandu, Cristian Stoleriu, Ioan-Gabriel Sandu, *Water resources in Romania and their quality in the main lacustrine basins*, Revista de Chimie, vol. 65, no.3, 2014, p. 344-349 (sub tipar).
- Marius-Tiberiu Alexianu, *Salt springs and the human mind: A place-naming model based on Romanian microtoponymy*, Signos, 2014 (under review).

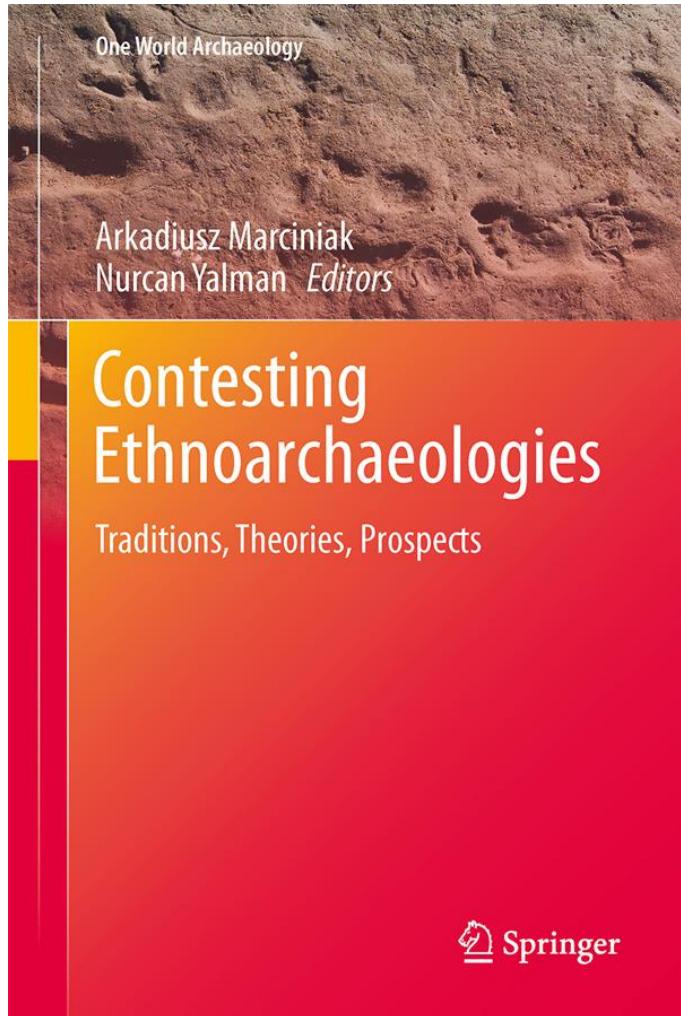
Publicații BDI

- Bernard Moinier, Marius Alexianu, *Sare și vinuri în antichitatea greco-romană*, Tyragetia, s.n, vol. V [XX], no. 1 (Arheologie. Istorie Antică), 2011, p. 285-290.
- Marius Alexianu, Olivier Weller, Robin Brigand, Roxana-Gabriela Curcă, *Ethnoarchéologie des sources salées de la Moldavie précarpatique: une taxonomie des habitats*, Thraco-Dacica, S.N., tome II (XXV-XXVI), no. 1-2, 2010-2011, p. 141-150.
- Olivier Weller, *Plaidoyer pour quelques grains de sel dans la Préhistoire européenne*, Tyragetia, s.n, vol. VI [XXI], no. 1 (Arheologie. Istorie Antică), 2012, p. 7-25.
- Marius Alexianu, Olivier Weller, Robin Brigand, *EthnosalRo : an ethnoarchaeological project on Romanian salt*, TEA The — the European Archaeologist, Issue 38: Winter 2012/13, p. 17-22.
- Robin Brigand, Marius Alexianu, Roxana-Gabriela Curcă, *Salt of the Earth: an invisible past in European archaeology*, TEA — the European Archaeologist, Issue 40: Winter 2013/14, p. 74-76.
- Robin Brigand, Olivier Weller, *Neolithic and Chalcolithic settlement patterns in central Moldavia (Romania)*, Documenta Praehistorica, XL, 2013, p. 195-207.

Proceedings

- Olivier Weller, *La production chalcolithique du sel à Provadia-Solnitsata: de la technologie céramique aux implications socio-économiques*, in Vassil Nikolov, Krum Bacvarov (eds.), *Salt and Gold: The Role of Salt in Prehistoric Europe*, Provadia-Veliko Tarnovo, 2012, p. 67-87.
- Ion Sandu, Olivier Weller, Dan Stumbea, Marius Alexianu, *Analyses archéométriques sur les moules à sel chalcolithiques de l'est de la Roumanie*, in Vassil Nikolov, Krum Bacvarov (eds.), *Salt and Gold: The Role of Salt in Prehistoric Europe*, Provadia-Veliko Tarnovo, 2012, p. 143-154.
- Marius Alexianu, Olivier Weller, Robin Brigand, Roxana-Gabriela Curcă, *Ethnoarchaeologische Forschungen zu den Salzwasserquellen der moldauischen Vorkarpaten, Rumaenien*, in Vassil Nikolov, Krum Bacvarov (eds.), *Salt and Gold: The Role of Salt in Prehistoric Europe*, Provadia-Veliko Tarnovo, 2012, p. 155-172.
- Gheorghe Romanescu, Marius Alexianu, Olivier Weller, *Fresh Rivers and Salt Springs: Modern Management and Ethno-Management of Water Resources in Eastern Romania*, in Fan Hong (ed.), *Informatics, Environment, Energy and Applications. Selected, peer reviewed papers from the 2012 International Congress on Informatics, Environment, Energy and Applications (IEEA 2012)*, March 17-18, 2012, Singapore. Singapore, IACSIT Press, 2012, p. 207-219.
- Robin Brigand, Olivier Weller, *Natural resources and settlements dynamics during Later Prehistory in Central Moldavia (Romania). An integrated GIS for spatial archaeological studies*, in Vasile Cotiugă, Ștefan Caliniuc (eds.), *Interdisciplinarity Research in Archaeology. Proceedings of the First Arheoinvest Congress, 10–11 June 2011, Iași, Romania*, BAR International Series 2433, Oxford, Archaeopress, 2012, p. 1-18.
- Serge Cassen, Olivier Weller, *Idées et faits relatifs à la production des sels marins et terrestres en Europe, du Vle au IIIe millénaire*, in J. Soares (ed.), *Prehistory of Wetlands*, Museum of Archaeology and Ethnography of the District of Setúbal (MAEDS), coll. Setúbal Arqueológica, 14, 2013, p. 255-304.
- Andrei Asăndulesei, Marius-Tiberiu Alexianu, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei, *Settling Selection Patterns in the subcarpathian Areas of Romania. Salt Resources as a determining Factor for prehistoric Occupation*, in *Proceedings of International Multidisciplinary Scientific GeoConference, section Cartography and GIS, Albena, Bulgaria, 2014* ([ISI](#)).
- Gheorghe Romanescu, Marius Alexianu, Andrei Asăndulesei, *The Distribution of Salt Massifs and the Exploitation of ancient and current Reserves of mineralized Waters within the Siret hydrographical Basin (Romania) – Case Study for the eastern Area of the Eastern Carpathians*, in *Proceedings of International Multidisciplinary Scientific GeoConference, section Hydrology and Water Resources, Albena, Bulgaria, 2014* ([ISI](#)).
- Marius-Tiberiu Alexianu, Olivier Weller, Robin Brigand, *Romanian salt springs, intangible cultural heritage, archaeological reconstruction: a variable geometry*, in *Proceedings of “The Intangible Elements of Culture in the Ethnoarchaeological Research” International Conference*, Rome, 21-23 November 2012, Springer, 2014 (sub tipar).

Capitole de carte



- Marius-Tiberiu Alexianu, *Saturated model. A first application in world and Romanian ethnoarchaeology*, in Arkadiusz Marciniak & Nurcan Yalman (eds.), *Contesting Ethnoarchaeologies*, Series: One World Archaeology, Vol. 7, Springer, 2013, ISBN 978-1-4614-9117-0, pp. 211-225.

- Andrei Asăndulesei, Felix-Adrian Tencariu, Sergiu-Constantin Enea, Dumitru Boghian, *Măsurători topografice și investigații geofizice în așezarea preistorică de la Tăcuta, punct Dealul Miclea, județul Vaslui. O abordare integrată, în mediu GIS*, in Bogdan-Petru Niculică, Dumitru Boghian (eds.), *Semper fidelis: in honorem magistri Mircea Ignat*, Editura Istros a Muzeului Brăilei (CNCS categoria B), 2013, ISBN 978-606-654-070-4, p. 65-78.

Volume editate în cadrul proiectului

- Bernard Moinier, *Le sel dans la culture antique*, Kaiserslautern, Colecția Archaeologica et anthropologica, Parthenon-Verlag, 2012, ISBN 978-3-942994-04-0.
- Vasile Cotiugă, Ștefan Caliniuc (eds.), *Interdisciplinarity Research in Archaeology. Proceedings of the First Arheoinvest Congress, 10–11 June 2011, Iași, Romania*, BAR International Series 2433, Oxford, Archaeopress, 2012, ISBN 978-1-4073-1032-9.
- Marius Alexianu, Roxana-Gabriela Curcă, Vasile Cotiugă (eds.), *Salt Effect. Proceedings of the Second Arheoinvest Symposium, 20-21 April 2012, Iași, Romania*, BAR International Series, Oxford, Archaeopress, 2014 (sub tipar).
- Vasile Cotiugă, Ștefan Caliniuc (eds.), *Interdisciplinary Research in Archaeology. Proceedings of the Second Arheoinvest Congress, 7–9 June 2012, Iași, Romania*, BAR International Series, Oxford, Archaeopress, 2014 (sub tipar).
- Vasile Cotiugă, Andrei Asăndulesei (eds.), *Interdisciplinary Research in Archaeology. Proceedings of the Third Arheoinvest Congress, 6–8 June 2013, Iași, Romania*, BAR International Series, Oxford, Archaeopress, 2014 (sub tipar).
- Robin Brigand, Olivier Weller, Marius Alexianu, Roxana-Gabriela Curcă (eds.), *Salt of the Earth: an invisible past in European Archaeology. Proceedings of the session held at the 19th European Association of Archaeologists conference in Pilsen, 4-8 September 2013*, Sidestone Press, 2014 (sub tipar).

Atragerea colaboratorilor străini

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Ecouri — Worldcat

- Marius-Tiberiu Alexianu, *Saturated model. A first application in world and Romanian ethno-archaeology*, in A. Marciniak & N. Yalman (eds.), *Contesting Ethnoarchaeologies*, Series: One World Archaeology, Vol. 7, Springer, 2013, ISBN 978-1-4614-9117-0, pp. 211-225, prezent în **171** biblioteci în sistemul Worldcat.
- Marius Alexianu, Olivier Weller and Roxana-Gabriela Curcă (eds), *Archaeology and Anthropology of Salt: A Diachronic Approach – Proceedings of the International Colloquium, 1-5 October 2008, A. I. Cuza University, Iași, Romania*, Oxford, Archaeopress, BAR International Series 2198, 2011, prezent în **62** biblioteci în sistemul Worldcat.

Ecouri — Recenzii ISI și citări în monografii

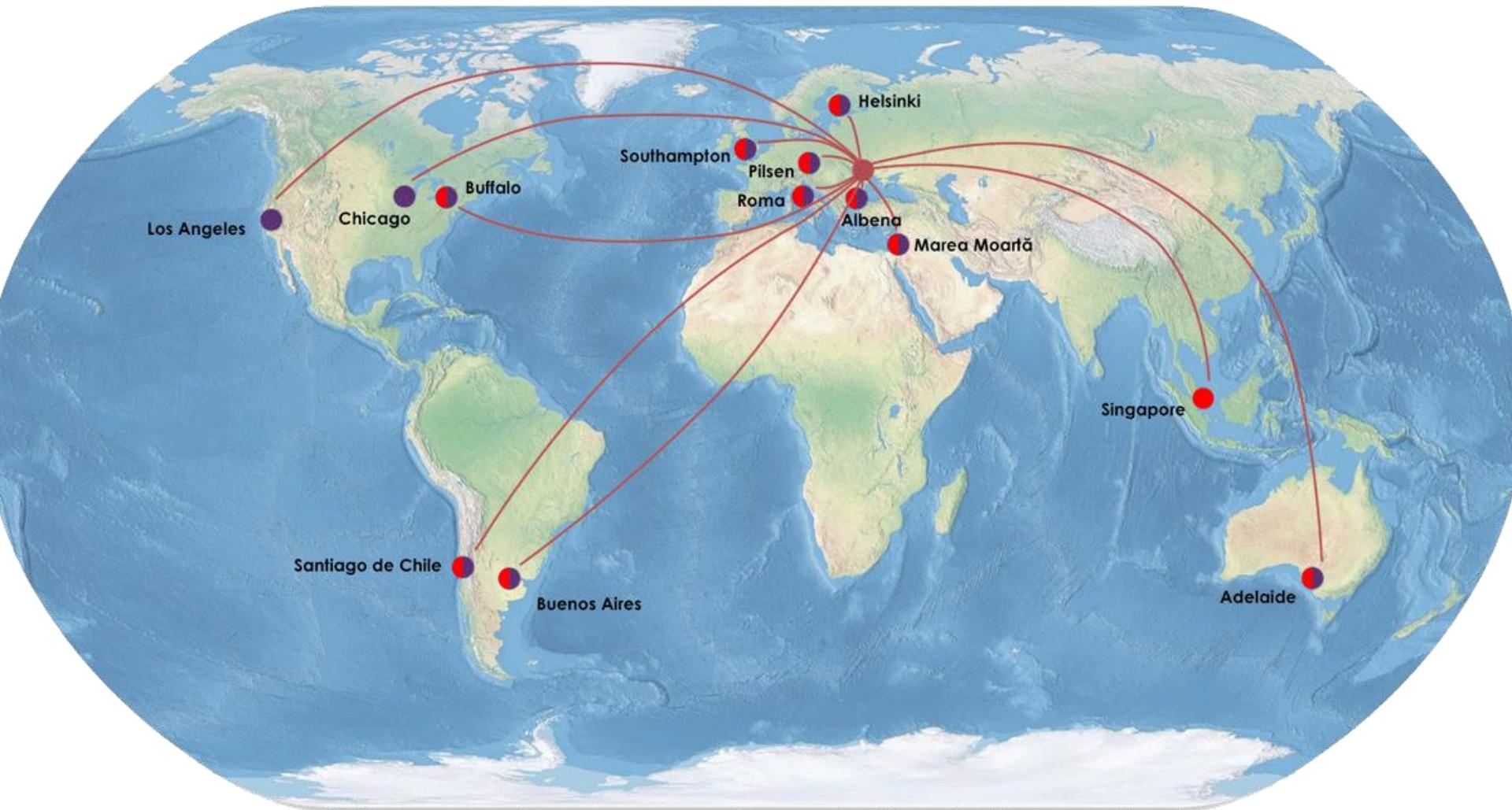
- *Archaeology and Anthropology of Salt: A Diachronic Approach* (eds. Marius Alexianu, Olivier Weller, Roxana-Gabriela Curcă) — Review by Elisa Guerra Doce, **European Journal of Archaeology**, 16 (2), 2013, p. 336-374.
- *Archaeology and Anthropology of Salt: A Diachronic Approach* (eds. Marius Alexianu, Olivier Weller, Roxana-Gabriela Curcă) — Review by Nena Galanidou, **Antiquity**, Vol 86, No 333, 2012, p. 935-937.
- *Archaeology and Anthropology of Salt: A Diachronic Approach* (eds. Marius Alexianu, Olivier Weller, Roxana-Gabriela Curcă) — Review by Oana Macari, **Mankind Quarterly**, Vol LII, No 2 (Winter 2011), p. 222-229.
- Harding Anthony 2013, **Salt in Prehistoric Europe**. Sidestone Press, Leiden: Marius-Tiberiu Alexianu și Olivier Weller (membri ai echipei Ethnosal/Ro) - **14 citări**.

Ecouri — Premii

- *Archaeology and Anthropology of Salt: A Diachronic Approach* (eds. Marius Alexianu, Olivier Weller, Roxana-Gabriela Curcă) — EUROINVENT 2012 Grand Prize, the National Salon of Technical and Scientific Books at the European Exhibition of Creativity and Innovation, May 10-13, 2012, Iași, Romania.
- *The ethno-archaeology of the salt springs and salt mountains from the extra-Carpathian areas of Romania* CNCS Project code PN-II-ID-PCE-2011-3-0825 No. 219/5.10.2011 — EUROINVENT 2012 Gold Medal, European Exhibition of Creativity and Innovation, May 10-13, 2012, Iași, Romania.

Reflectarea în mass-media (2014)

- Arqueólogos rumano exponen proyecto en PUCV — Instituto de Historia, Pontificia Universidad Católica de Chile
 - www.tacitas.blogspot.com/2014/05/arqueologos-rumanos-exponen-proyecto-en.html
- Investigadores rumano expusieron inédito proyecto mundial sobre la explotación, uso y tradiciones en torno a la sal — Instituto de Historia, Pontificia Universidad Católica de Chile
 - www.ihistoria.ucv.cl/2014/05/instituto-de-historia-doctores-rumanos-expusieron-inedito-proyecto-mundial-sobre-la-explotacion-uso-y-tradiciones-en-torno-a-la-sal/
 - www.prensa.ucv.cl/?p=33357
- Conferencia sobre etnoarqueología en salares — Museo de La Plata, Buenos Aires, Argentina
 - www.museo.fcnym.unlp.edu.ar/articulo/2014/5/21/rumania_conf



participare a cercetătorilor începători



participare mixtă



participare a cercetătorilor seniori

Conferințe — SUA, Australia, Argentina, Chile

- *Understanding the Prehistoric Salt Springs: Ethnoarchaeological Investigations in the Romanian Carpathians*, State University of New York at Buffalo, Department of Anthropology, Buffalo, United States of America, 20.11–10.12.2012.
- *Spatial ethnoarchaeology of salt springs and salt mountains in eastern Romania*, Flinders University (Department of Archaeology from the Faculty of Education, Humanities and Law), Adelaide, Australia, 23.11–08.12.2013.
- *Etnoarqueología simbólica de la sal en la Prehistoria y el Mundo Antiguo*, Pontificia Universidad Católica de Valparaíso, Chile, 28.05.2014.
- *Salt Springs in Prehistory: Ethnoarchaeological Investigation in Romania*, Universidad Nacional de la Plata-Museo de la Plata, Argentina, 26.05.2014.

Manifestări organize în cadrul proiectului

- Second Arheoinvest Symposium — *From the Ethno-archaeology to the Anthropology of Salt* — Arheoinvest Symposium Series — Iași, 20–21 April 2012.
- Second Arheoinvest Congress — *Interdisciplinary Research in Archaeology* (International participation) — Iași, 7–9 June 2012.
- «Du sel et des hommes : approches ethnoarchéologiques». Exposition photographique à la Maison de l'Archéologie et de l'Ethnologie, CNRS-Universités Panthéon-Sorbonne et Paris Ouest La Défense, November 2012 — January 2013.
- *Archaeology of salt: approach to an invisible past* — Session at the 7th World Archaeological Congress, Dead Sea, Jordan, 13–18 January 2013.
- Third Arheoinvest Congress — *Interdisciplinary Research in Archaeology* (International participation) — Iași, 6–8 June 2013.
- Ethnoarchaeological lecture: Pierre Pétrequin — *New trends in ethnoarchaeology: the JADE project and the long Alpine axeheads in Western Europe during the 5th and 4th millennia BC* delivered as the opening lecture of the Third Arheoinvest Congress — *Interdisciplinary Research in Archaeology*(International participation) — Iași, 6–8 June 2013.
- *Salt of the Earth: an invisible past in European Archaeology* — Session at the 19th EAA Annual Meeting, Pilsen, 4–8 September 2013.

Second Arheoinvest Symposium

From the Ethno-archaeology to the Anthropology of Salt

Iași, 20–21 April 2012

- Marius Alexianu — *Anthropology of salt: a first conceptual approach*
- Olivier Weller, Gheorghe Dumitroaia, Robin Brigand, Daniel Garvăń, Marius Alexianu, Roxana Munteanu — *Un grain de sel dans les Carpates : regards croisés sur l'exploitation passée et actuelle des sources salées (dép. Neamț)*
- Ion Sandu, Roxana-Gabriela Curcă, Viorica Vasilache, Maria Canache — *The correlation between the chemical composition and the domestic uses of brine*
- Robin Brigand — *Territoires, hommes et sel. Variations archeogéographiques*
- Gheorghe Romanescu — *The perception of salt springs in the Romanian geographic and geologic literature*
- Vasile Cotiugă — *On salt exploitation in the Romanian principalities through the accounts of foreign travellers*
- Marius Alexianu — *Salt springs in Romanian toponymy*
- Alexandru Bounegru — *Halotponyms and halohydronyms as reflected in medieval documents from Wallachia*
- Alexandru Bounegru — *Halotponyms and halohydronyms as reflected in the atlas “Plans des Bukowiner Districts in 72 sections welche in denen Jahren 1773, 1774 und 1775 von einem Departament des Kays: Königlicher General Staabs geometrisch aufgenommen worden”*

Manifestări științifice internaționale 2012 — Singapore, Marea Britanie, Finlanda, Italia

- Gheorghe Romanescu, Marius Alexianu, Olivier Weller — *Fresh rivers and salt springs: modern management and ethno-management of water resources in Eastern Romania* — International Congress on Informatics, Environment, Energy and Applications (IEEA 2012), **Singapore**, March 17–18, 2012.
- Estelle Gauthier, Olivier Weller, Jessica Giraud, Robin Brigand — *Diffusion of Raw Materials and Manufactured Objects. A challenge for spatial analysis?* — Computer Applications and Quantitative Methods in Archaeology (CAA 2012), **Southampton**, March 26–30, 2012.
- Andrei Asăndulesei, Robin Brigand, Vasile Cotiugă, Olivier Weller — *Neolithic and Chalcolithic territorial patterns in Moldavia (Romania). Remarks on Neamt and Iasi regions* — Computer Applications and Quantitative Methods in Archaeology (CAA 2012), **Southampton**, March 26–30, 2012.
- Laure Saligny, Xavier Rodier, Frédérique Bertoncello, François Favory, Elise Fovet, Christina Gandini, Estelle Gauthier, Jessica Giraud, Murielle Leroy, Laure Nuninger, Nicolas Poirier, Olivier Weller — *Formalization of scientific process and conceptual modelling for the study of territorial and products circulation dynamics (ArchaeDyn II programme)* — Computer Applications and Quantitative Methods in Archaeology (CAA 2012), **Southampton**, March 26–30, 2012.
- Marius Alexianu, Vasile Cotiugă, Andrei Asăndulesei, Radu-Ştefan Balaur, Roxana-Gabriela Curcă, and Ştefan Caliniuc — *Salt springs and mobility: Natural invariants and human variables in archaeological sequences from Eastern Romania* — European Association of Archaeologists 2012 annual meeting (EAA 2012), **Helsinki**, August 29–September 1, 2012.
- Estelle Gauthier, Olivier Weller, Jessica Giraud, Robin Brigand in colab. cu Maréva Gabillot, Pierre Pétrequin — *Theoretic space-time modeling of the diffusion processes of raw materials and manufactured objects (poster)* — European Association of Archaeologists 2012 annual meeting (EAA 2012), **Helsinki**, August 29–September 1, 2012.
- Marius Alexianu — *Patrimoine invisible-temps archéologique: une géométrie variable* — The Intangible Elements of Culture in the Ethnoarchaeological Research International Conference, **Rome**, 21–23 November 2012.
- Roxana-Gabriela Curcă, *The linguistics of salt: from history to prehistory (poster)* — Italian Society for Ethnoarchaeology (AIE), International Conference The Intangible Elements of Culture in the Ethnoarchaeological Research, **Rome**, 21–23.11 2012.

Sesiuni organizate de membri ai proiectului în cadrul manifestărilor internaționale – 2013

- *Archaeology of salt: approach to an invisible past* — Session at the 7th World Archaeological Congress (WAC-7), Dead Sea, Jordan, 13–18 January 2013.
- *Salt of the Earth: an invisible past in European Archaeology* — Session at the 19th EAA Annual Meeting (EAA-19), Pilsen, 4-8 September 2013.

- Marius-Tiberiu Alexianu, Roxana-Gabriela Curcă, Andrei Asăndulesei, Radu Balaur, Ștefan Caliniuc — *The spatial ethnoarchaeology of the salt springs from the Eastern Subcarpathians of Romania* — WAC-7.
- Olivier Weller — *Salt making in prehistory: a global overview from the European perspective* — WAC-7
- Roxana-Gabriela Curcă — *Halotherapy: from ethnography and history to prehistory* — WAC-7
- Gheorghe Romanescu — *The geological basis for the development of salt production in ancient Romania* — WAC-7
- Dan Monah, Ștefan Caliniuc — *The importance of salt in ritual exchanges in the Southeastern European Chalcolithic* — WAC-7
- Andrei Asăndulesei, Radu-Ștefan Balaur, Felix-Adrian Tencariu — *Ethno-archaeological research concerning the salt supply in Neolithic and Chalcolithic communities from Eastern part of Romania* — WAC-7

- Olivier Weller — *First Salt Making in Europe: a Global Overview from Neolithic times* — EAA-19
- Robin Brigand, Olivier Weller, Andrei Asăndulesei — *Spatial Models for Salt Archaeology. A Neolithic Case Study from Moldova (Romania)* — EAA-19
- Marius Alexianu, Olivier Weller, Robin Brigand, Ion Sandu, Gheorghe Romanescu, Roxana Curcă, Vasile Cotiugă, Radu Balaur, Ștefan Caliniuc, Felix Tencariu — *Natural brine or rock salt exploitation? Ethnoarchaeological researches in the extracarpathian area of Romania* — EAA-19

Manifestări științifice internaționale 2014 — Australia, SUA, Bulgaria, Turcia

- Andrei Asăndulesei — *Archaeological prospection and GIS-based analysis on Chalcolithic settlements from Eastern Romania* — National Archaeology Student Conference 2014 (NASC 2014), Flinders University Department of Archaeology, Adelaide, Australia, 11-13 April 2014.
- Marius Alexianu, Andrei Asăndulesei, Felix-Adrian Tencariu, Ion Sandu, Gheorghe Romanescu, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Ethno-archaeology of Salt Supply during the Neolithic and Chalcolithic in the Romanian Carpathians* — International Symposium on Archaeometry (ISA 2014), University of California, Los Angeles, 19-23 May 2014.
- Andrei Asăndulesei, Ionuț Cristi Nicu, Radu Balaur, Ștefan Caliniuc, Vasile Cotiugă, Cristian Stoleriu, Oana Stoleriu — *Subsurface Survey and Spatial Analysis on Chalcolithic Settlements from Eastern Romania [poster]* — International Symposium on Archaeometry (ISA 2014), University of California, Los Angeles, 19-23 May 2014.
- Marius Alexianu, Ion Sandu, Andrei Asăndulesei, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei — *Savory Salt: Ethnoarchaeological research in Romania* — Theoretical Archaeology Group 2014 Conference (TAG 2014), University of Illinois at Urbana-Champaign, 23-25 May 2014.
- Gheorghe Romanescu, Marius Alexianu, Andrei Asăndulesei — *The distribution of salt massifs and the exploitation of ancient and current reserves of mineralized waters within the Siret hydrographical basin (Romania). Case study for the eastern area of the Eastern Carpathians* — 14th International Multidisciplinary Scientific GeoConference (SGEM 2014), Albena, Bulgaria, 17-26 June 2014.
- Andrei Asăndulesei, Marius Alexianu, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei — *Site catchment analysis in Subcarpathian areas. Salt resources as a determining factor for prehistoric habitation* — 14th International Multidisciplinary Scientific GeoConference (SGEM 2014), Albena, Bulgaria, 17-26 June 2014.
- Andrei Asăndulesei, Marius Alexianu, Felix Tencariu, Ștefan Caliniuc, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Salt and prehistoric (from the Neolithic to the Early Bronze Age) population movements in the Eastern Carpathians of Romania. A diachronic GIS-based analysis* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.
- Felix-Adrian Tencariu, Marius Alexianu, Andrei Asăndulesei, Mihaela Asăndulesei, Ștefan Caliniuc — *The use of the natural brine for food preservation. Ethnoarchaeological research in the extra-Carpathian area of Romania* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.

Manifestări științifice naționale — 2011–2014

- Marius Alexianu, Vasile Cotiugă, Roxana Curcă — *Cercetări etnografice asupra exploatarii sării în Mexic — “Vasile Pârvan” National Symposium, “Iulian Antonescu” Museum Complex, Bacău, October 6-7, 2011.*
- Marius Alexianu — *Istoricul cercetărilor etnoarheologice din zona izvoarelor cu apă sărată din Moldova — “In memoriam Constantin Matasă” Symposium, Piatra Neamț, November 3-4, 2011.*
- Marius Alexianu — *Exploatarea sării și mobilitatea preistorică în Moldova subcarpatică: modele etnografice — “Bucovina — File de istorie” National Symposium, 13th edition, Suceava, November 25-26, 2011.*
- Marius Alexianu — *Un program exploratoriu CNCS: Etnoarheologia izvoarelor de apă sărată și a zăcămintelor de sare din zona extracarpatică a României — “Acta Moldaviae Meridionalis” National Session of Scientific Papers, Vaslui, December 8-9, 2011.*
- Robin Brigand — *Resurse naturale și problema controlului teritorial în neo- și eneoliticul din Moldova — “Acta Moldaviae Meridionalis” National Session of Scientific Papers, Vaslui, December 8-9, 2011.*
- Marius Alexianu, Vasile Cotiugă, Andrei Asăndulesei, Ștefan Caliniuc — *Research in Spatial Ethnoarchaeology on the Supplying with Brine from Salt Springs in Moldavia (Romania) — “Human Impact on the Natural Environment in the Neo-Eneolithic of South-Eastern Europe” International Colloquium, Piatra-Neamț, 24-26 October 2012.*
- Olivier Weller, Mihaela Danu, Emilie Gauthier, Dominique Sordillet, Alexa Dufraisse, Claire Delhon, Robin Brigand, Gheorghe Dumitroaia, Daniel Garvăń, Roxana Munteanu, Vasile Diaconu — *Human Interaction and Environmental Impact of Salt Spring Exploitation over 2000 Years (Hălăbutoaia-Țolici, Petricani, Neamț, Romania) — “Human Impact on the Natural Environment in the Neo-Eneolithic of South-Eastern Europe” International Colloquium, Piatra-Neamț, 24-26 October 2012.*
- Marius Alexianu, Andrei Asăndulesei, Radu Balaur, Robin Brigand, Ștefan Caliniuc, Vasile Cotiugă, Roxana-Gabriela Curcă, Gheorghe Romanescu, Ion Sandu, Felix-Adrian Tencariu, Olivier Weller — *Diachronic (from the Palaeolithic to 5th c. A.D.) site density around the salt springs from the Romanian Eastern Carpathians. An ethnoarchaeological model — Third Arheoinvest Congress, Iași, Romania, 6-8 June 2013.*
- Ionuț-Cristi Nicu, Gheorghe Romanescu, Andrei Asăndulesei, Vasile Cotiugă — *Morphometrical and geomorphological characteristics of the landscape from the Valea Oii basin (tributary of the Bahlui River). Direct implications for Chalcolithic archaeological sites — Third Arheoinvest Congress, Iași, Romania, 6-8 June 2013.*
- Gheorghe Romanescu, Marius Alexianu, Ana-Maria Romanescu, Gabriela Romanescu — *Distribuția masivelor de sare și exploatarea vechilor și actualelor rezerve de ape mineralizate din bazinul hidrografic Siret (Romania) – studiu de caz pentru zona estică a Carpaților Orientali, Seminarul geografic internațional „Dimitrie Cantemir”, ediția a XXXIII-a, Iași 18-20 octombrie 2013.*

STUDII DOCTORALE

- Doctorandă în istorie din 01.10.2013, *Antropologia culturală a sării în mediul rural din spațiul est-carpatic al României*

PROIECTE CÂȘTIGATE

- „MINERVA – Cooperare pentru cariera de elită în cercetarea doctorală și postdoctorală”, Contract: POSDRU 159/1.5/S/137832.

PUBLICAȚII

- Mihaela Asăndulesei, *Symbolism of salt in holidays as expressed in the pioneering works of two Romanian ethnographers in Salt effect. Proceedings of the Second Arheoinvest Symposium — From the Ethno-archaeology to the Anthropology of Salt, "Alexandru Ioan Cuza" University of Iași (Romania), 20-21 April 2012* (eds. M. Alexianu, R.-G. Curcă, V. Cotiugă), British Archaeological Reports, Oxford, Archaeopress, 2014 (sub tipar).
- Mihaela Asăndulesei, *Salt exploitation references in Plinius Maior's work*, Studia Antiqua et Archaeologica, XX, 2014 (sub tipar).
- Andrei Asăndulesei, Marius-Tiberiu Alexianu, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei, *Settling Selection Patterns in the subcarpathian Areas of Romania. Salt Resources as a determining Factor for prehistoric Occupation*, in Proceedings of International Multidisciplinary Scientific GeoConference, section Cartography and GIS, Albena, Bulgaria, 2014 (**Proceedings ISI**).

MANIFESTĂRI ȘTIINȚIFICE

- Marius Alexianu, Andrei Asăndulesei, Felix-Adrian Tencariu, Ion Sandu, Gheorghe Romanescu, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Ethno-archaeology of Salt Supply during the Neolithic and Chalcolithic in the Romanian Carpathians* — International Symposium on Archaeometry (ISA 2014), University of California, Los Angeles, 19-23 May 2014.
- Marius Alexianu, Ion Sandu, Andrei Asăndulesei, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei — *Savory Salt: Ethnoarchaeological research in Romania* — Theoretical Archaeology Group 2014 Conference (TAG 2014), University of Illinois at Urbana-Champaign, 23-25 May 2014.
- Andrei Asăndulesei, Marius Alexianu, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei — *Site catchment analysis in Subcarpathian areas. Salt resources as a determining factor for prehistoric habitation* — 14th International Multidisciplinary Scientific GeoConference (SGEM 2014), Albena, Bulgaria, 17-26 June 2014.
- Andrei Asăndulesei, Marius Alexianu, Felix Tencariu, Ștefan Caliniuc, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Salt and prehistoric (from the Neolithic to the Early Bronze Age) population movements in the Eastern Carpathians of Romania. A diachronic GIS-based analysis* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.
- Felix-Adrian Tencariu, Marius Alexianu, Andrei Asăndulesei, Mihaela Asăndulesei, Ștefan Caliniuc — *The use of the natural brine for food preservation. Ethnoarchaeological research in the extra-Carpathian area of Romania* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.

PROIECTE CÂȘTIGATE

- Proiect POSDRU/89/1.5/S/49944, (2010-2013) Dezvoltarea capacitatej de inovare și creșterea impactului cercetării prin programe postdoctorale.

PUBLICAȚII

- Andrei Asăndulesei, **Felix-Adrian Tencariu**, Sergiu-Constantin Enea, Dumitru Boghian, *Măsurători topografice și investigații geofizice în așezarea preistorică de la Tăcuta, punct Dealul Miclea, județul Vaslui. O abordare integrată, în mediu GIS*, in B. P. Niculică, D. Boghian (eds.), *Semper fidelis: in honorem magistri Mircea Ignat*, Editura Istros a Muzeului Brăilei (CNCS categoria B), 2013, ISBN 978-606-654-070-4, p. 65-78.

MANIFESTĂRI ȘTIINȚIFICE

- Andrei Asăndulesei, Radu-Ştefan Balaur, **Felix Tencariu** — *Ethno-archaeological research concerning the salt supply in Neolithic and Chalcolithic communities from Eastern part of Romania* — 7th World Archaeological Congress (WAC-7), Dead Sea, Jordan, 13–18 January 2013.
- Marius Alexianu, Andrei Asăndulesei, Radu Balaur, Robin Brigand, Ştefan Caliniuc, Vasile Cotiugă, Roxana-Gabriela Curcă, Gheorghe Romanescu, Ion Sandu, **Felix-Adrian Tencariu**, Olivier Weller — *Densitatea diacronică a habitatului (de la paleolitic până în secolul al IV d.Hr.) în jurul izvoarelor de apă sărată din zona est-carpatică a României. Un model etnoarheologic*, comunicare susținută la Third Arheoinvest Congress — Interdisciplinary Research in Archaeology, Iași, 6-8 iunie 2013.
- Marius Alexianu, Olivier Weller, Robin Brigand, Ion Sandu, Gheorghe Romanescu, Roxana Curcă, Vasile Cotiugă, Radu Balaur, Ştefan Caliniuc, **Felix Tencariu** — *Natural brine or rock salt exploitation? Ethnoarchaeological researches in the extracarpatic area of Romania* — 19th Annual Meeting of the European Association of Archaeologists, 4-8 September 2013, Pilsen, Czech Republic.
- Marius Alexianu, Andrei Asăndulesei, **Felix-Adrian Tencariu**, Ion Sandu, Gheorghe Romanescu, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Ethno-archaeology of Salt Supply during the Neolithic and Chalcolithic in the Romanian Carpathians* — International Symposium on Archaeometry (ISA 2014), University of California, Los Angeles, 19-23 May 2014.
- Andrei Asăndulesei, Marius Alexianu, **Felix-Adrian Tencariu**, Ştefan Caliniuc, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Salt and prehistoric (from the Neolithic to the Early Bronze Age) population movements in the Eastern Carpathians of Romania. A diachronic GIS-based analysis* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.
- **Felix-Adrian Tencariu**, Marius Alexianu, Andrei Asăndulesei, Mihaela Asăndulesei and Ştefan Caliniuc — *The use of the natural brine for food preservation. Ethnoarchaeological research in the extra-Carpathian area of Romania* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.

PROIECTE CÂȘTIGATE

- Non-destructive approaches to complex archaeological sites. An integrated applied research model for cultural heritage. Project code: PN-II-PT-PCCA-2013-4-2234.
- Cercetarea interdisciplinară a siturilor arheologice eneolitice din bazinul hidrografic al râului Bahlui. Prospecțiuni arheologice și GIS (Geographic Information System). Studii de caz. POSDRU/159/1.5/S/140863.

PUBLICAȚII

- Andrei Asăndulesei, Lăcrămioara-Elena Istina, Vasile Cotiugă, Felix-Adrian Tencariu, Ștefan Caliniuc, Radu Balaur, Ana-Petronela Crețu, Cristi Nicu, Bogdan Benedict, Cesium magnetometer survey in the Cucuteni settlement of Fulgeriș - La Trei Cireși, Bacău County, Romania, Romanian Reports in Physics, 64, 3, p. 878-890 (ISI).
- Gheorghe Romanescu, Vasile Cotiugă, Andrei Asăndulesei, Cristian Stoleriu 2012 – Use of the 3-D scanner in mapping and monitoring the dynamic degradation of soils. Case study of the Cucuteni-Băiceni Gully on the Moldavian Plateau (Romania), Hydrology and Earth System Sciences, 16, 3, p. 953-966 (ISI).
- Robin Brigand, Andrei Asăndulesei, Olivier Weller, Vasile Cotiugă 2012 – Notes préliminaires sur le peuplement chalcolithique des bassins hydrographiques du Bahlui et du Trestiana-Valea Oii (lași), Dacia N.S., tome LVI, 2012, p. 5-32 (ERIH, CNCS, categoria A).
- Andrei Asăndulesei, Felix-Adrian Tencariu, Sergiu-Constantin Enea, Dumitru Boghian, Măsurători topografice și investigații geofizice în așezarea preistorică de la Tăcuta, punct Dealul Miclea, județul Vaslui. O abordare integrată, în mediu GIS, in Bogdan-Petru Niculică, Dumitru Boghian (eds.), Semper fideli: in honorem magistri Mircea Ignat, Editura Istros a Muzeului Brăilei (CNCS categoria B), 2013, ISBN 978-606-654-070-4, p. 65-78.
- Andrei Asăndulesei, Marius-Tiberiu Alexianu, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei, Settling Selection Patterns in the subcarpathian Areas of Romania. Salt Resources as a determining Factor for prehistoric Occupation, in Proceedings of International Multidisciplinary Scientific GeoConference, section Cartography and GIS, Albena, Bulgaria, 2014 (Proceedings ISI).
- Gheorghe Romanescu, Marius-Tiberiu Alexianu, Andrei Asăndulesei, The Distribution of Salt Massifs and the Exploitation of ancient and current Reserves of mineralized Waters within the Siret hydrographical Basin (Romania) – Case Study for the eastern Area of the Eastern Carpathians, in Proceedings of International Multidisciplinary Scientific GeoConference, section Hydrology and Water Resources, Albena, Bulgaria, 2014 (Proceedings ISI).

MANIFESTĂRI ȘTIINȚIFICE (selectiv)

- Andrei Asăndulesei, Radu-Ștefan Balaur, Felix Tencariu — Ethno-archaeological research concerning the salt supply in Neolithic and Chalcolithic communities from Eastern part of Romania — 7th World Archaeological Congress (WAC-7), Dead Sea, Jordan, 13–18 January 2013.
- Robin Brigand, Olivier Weller, Andrei Asăndulesei — Spatial Models for Salt Archaeology. A Neolithic Case Study from Moldova (Romania) — 19th Annual Meeting of the European Association of Archaeologists, 4-8 September 2013, Pilsen, Czech Republic.
- Marius Alexianu, Andrei Asăndulesei, Felix-Adrian Tencariu, Ion Sandu, Gheorghe Romanescu, Roxana-Gabriela Curcă, Mihaela Asăndulesei — Ethno-archaeology of Salt Supply during the Neolithic and Chalcolithic in the Romanian Carpathians — International Symposium on Archaeometry (ISA 2014), University of California, Los Angeles, 19-23 May 2014.
- Andrei Asăndulesei, Ionuț Cristi Nicu, Radu Balaur, Ștefan Caliniuc, Vasile Cotiugă, Cristian-Constantin Stoleriu, Oana Mihaela Stoleriu — Subsurface Survey and Spatial Analysis on Chalcolithic Settlements From Eastern Romania — International Symposium on Archaeometry (ISA 2014), University of California, Los Angeles, 19-23 May 2014 (poster).
- Marius Alexianu, Ion Sandu, Andrei Asăndulesei, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei — Savory Salt: Ethnoarchaeological research in Romania — Theoretical Archaeology Group 2014 Conference (TAG 2014), University of Illinois at Urbana-Champaign, 23-25 May 2014.
- Andrei Asăndulesei, Marius-Tiberiu Alexianu, Roxana-Gabriela Curcă, Ștefan Caliniuc, Mihaela Asăndulesei, Settling Selection Patterns in the subcarpathian Areas of Romania. Salt Resources as a determining Factor for prehistoric Occupation, in Proceedings of International Multidisciplinary Scientific GeoConference, section Cartography and GIS, Albena, Bulgaria, 2014.
- Gheorghe Romanescu, Marius-Tiberiu Alexianu, Andrei Asăndulesei, The Distribution of Salt Massifs and the Exploitation of ancient and current Reserves of mineralized Waters within the Siret hydrographical Basin (Romania) – Case Study for the eastern Area of the Eastern Carpathians, in Proceedings of International Multidisciplinary Scientific GeoConference, section Hydrology and Water Resources, Albena, Bulgaria, 2014.
- Felix-Adrian Tencariu, Marius Alexianu, Andrei Asăndulesei, Mihaela Asăndulesei, Ștefan Caliniuc — The use of the natural brine for food preservation. Ethnoarchaeological research in the extra-Carpathian area of Romania — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.
- Andrei Asăndulesei, Marius Alexianu, Felix-Adrian Tencariu, Ștefan Caliniuc, Roxana-Gabriela Curcă, Mihaela Asăndulesei — Salt and prehistoric (from the Neolithic to the Early Bronze Age) population movements in the Eastern Carpathians of Romania. A diachronic GIS-based analysis — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.

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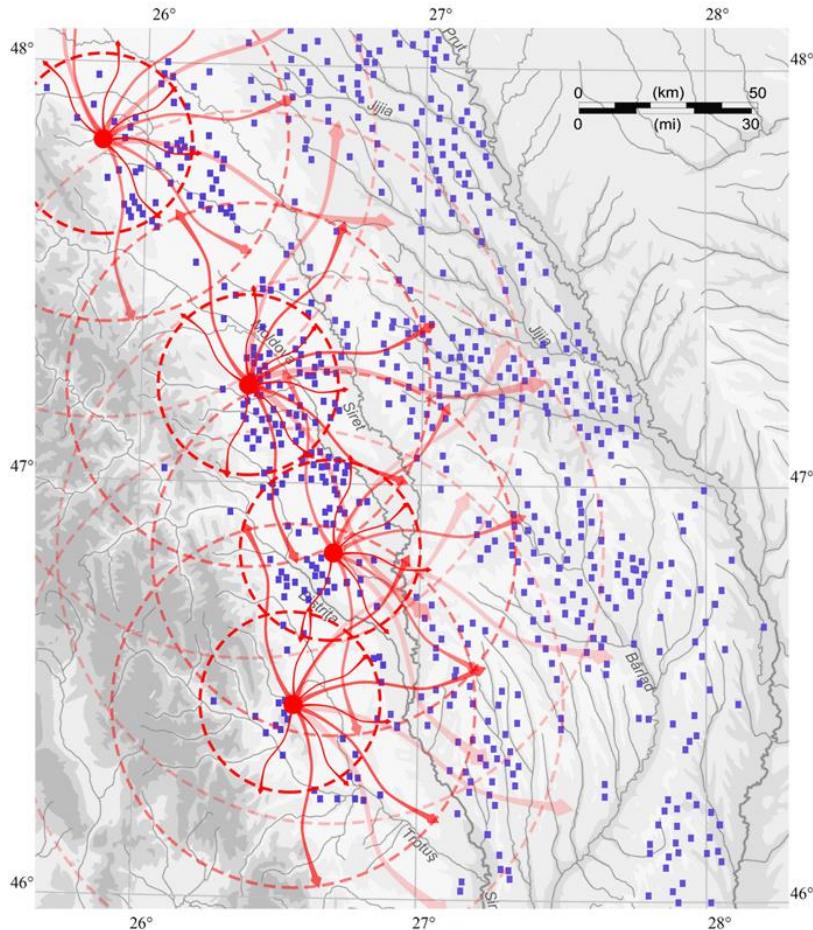
- Andrei Asăndulesei, Lăcrămioara-Elena Istina, Vasile Cotiugă, Felix-Adrian Tencariu, **Ştefan Caliniuc**, Radu Balaur, Ana-Petronela Creţu, Cristi Nicu, Bogdan Benedict, Cesium magnetometer survey in the Cucuteni settlement of Fulgeriș - La Trei Cireşti, Bacău County, Romania, Romanian Reports in Physics, 64, 3, p. 878-890 (**ISI**).
- Andrei Asăndulesei, Marius-Tiberiu Alexianu, Roxana-Gabriela Curcă, **Ştefan Caliniuc**, Mihaela Asăndulesei, Settling Selection Patterns in the subcarpathian Areas of Romania. Salt Resources as a determining Factor for prehistoric Occupation, in Proceedings of International Multidisciplinary Scientific GeoConference, section Cartography and GIS, Albena, Bulgaria, 2014 (**Proceedings ISI**).

MANIFESTĂRI ȘTIINȚIFICE

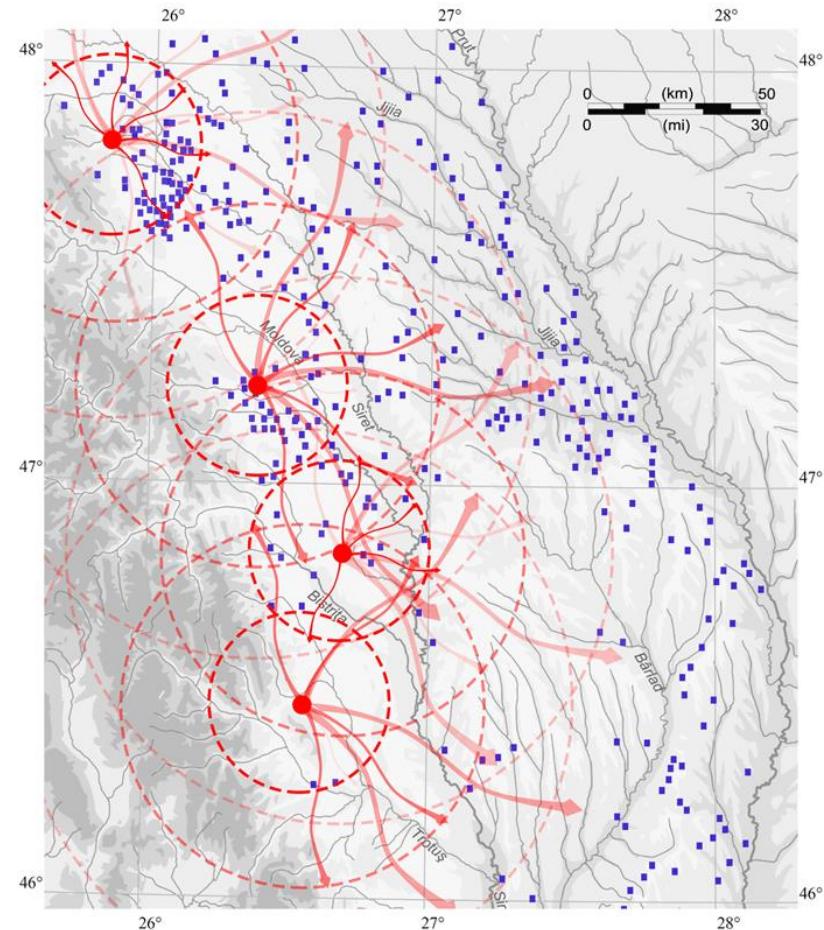
- Dan Monah, **Ştefan Caliniuc** — *The importance of salt in ritual exchanges in the Southeastern European Chalcolithic* — 7th World Archaeological Congress (WAC-7), Dead Sea, Jordan, 13–18 January 2013.
- Marius Alexianu, Olivier Weller, Robin Brigand, Ion Sandu, Gheorghe Romanescu, Roxana Curcă, Vasile Cotiugă, Radu Balaur, **Ştefan Caliniuc**, Felix Tencariu — *Natural brine or rock salt exploitation? Ethnoarchaeological researches in the extracarpatic area of Romania* — 19th Annual Meeting of the European Association of Archaeologists, 4-8 September 2013, Pilzen, Czech Republic.
- Andrei Asăndulesei, Ionuț Cristi Nicu, Radu Balaur, **Ştefan Caliniuc**, Vasile Cotiugă, Cristian-Constantin Stoleriu, Oana Mihaela Stoleriu — *Subsurface Survey and Spatial Analysis on Chalcolithic Settlements From Eastern Romania* — International Symposium on Archaeometry (ISA 2014), University of California, Los Angeles, 19-23 May 2014 (poster).
- Marius Alexianu, Ion Sandu, Andrei Asăndulesei, Roxana-Gabriela Curcă, **Ştefan Caliniuc**, Mihaela Asăndulesei — *Savory Salt: Ethnoarchaeological research in Romania* — Theoretical Archaeology Group 2014 Conference (TAG 2014), University of Illinois at Urbana-Champaign, 23-25 May 2014.
- Andrei Asăndulesei, Marius Alexianu, Felix-Adrian Tencariu, **Ştefan Caliniuc**, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Salt and prehistoric (from the Neolithic to the Early Bronze Age) population movements in the Eastern Carpathians of Romania. A diachronic GIS-based analysis* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), ITU, Istanbul, 10-14 September 2014.
- Andrei Asăndulesei, Marius-Tiberiu Alexianu, Roxana-Gabriela Curcă, **Ştefan Caliniuc**, Mihaela Asăndulesei — *Settling Selection Patterns in the subcarpathian Areas of Romania. Salt Resources as a determining Factor for prehistoric Occupation*, in Proceedings of International Multidisciplinary Scientific GeoConference, section Cartography and GIS, Albena, Bulgaria, 2014.
- Andrei Asăndulesei, Marius Alexianu, Felix-Adrian Tencariu, **Ştefan Caliniuc**, Roxana-Gabriela Curcă, Mihaela Asăndulesei — *Salt and prehistoric (from the Neolithic to the Early Bronze Age) population movements in the Eastern Carpathians of Romania. A diachronic GIS-based analysis* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.
- Felix-Adrian Tencariu, Marius Alexianu, Andrei Asăndulesei, Mihaela Asăndulesei, **Ştefan Caliniuc** — *The use of the natural brine for food preservation. Ethnoarchaeological research in the extra-Carpathian area of Romania* — European Association of Archaeologists 20th Annual Meeting (EAA 2014), Istanbul, 10-14 September 2014.

Aprovizionarea aşezărilor din estul României de la izvoarele sărate în timpul arheologic (modelizări recente)

Concepție: M. Alexianu
Realizare: Ș. Caliniuc

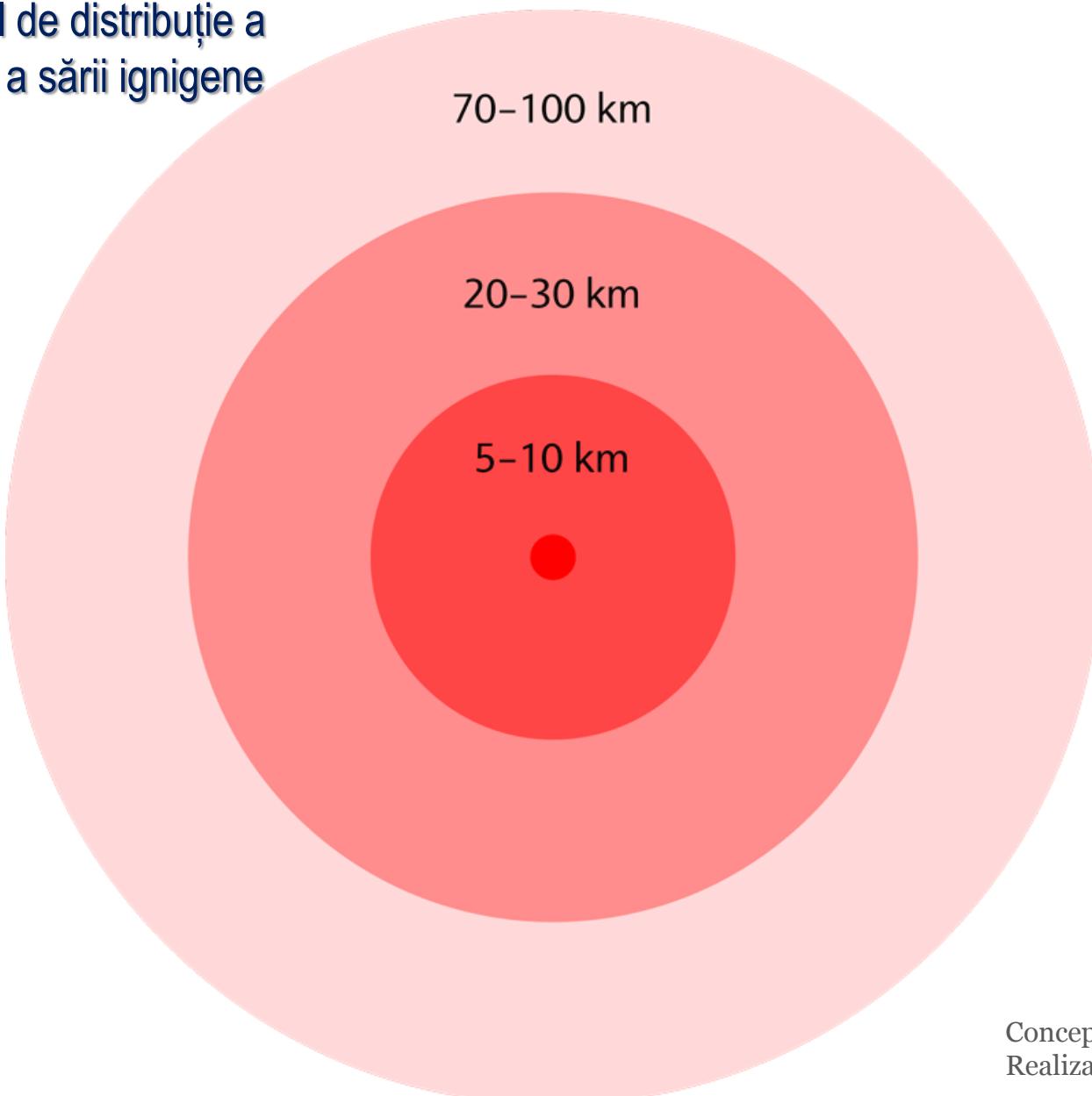


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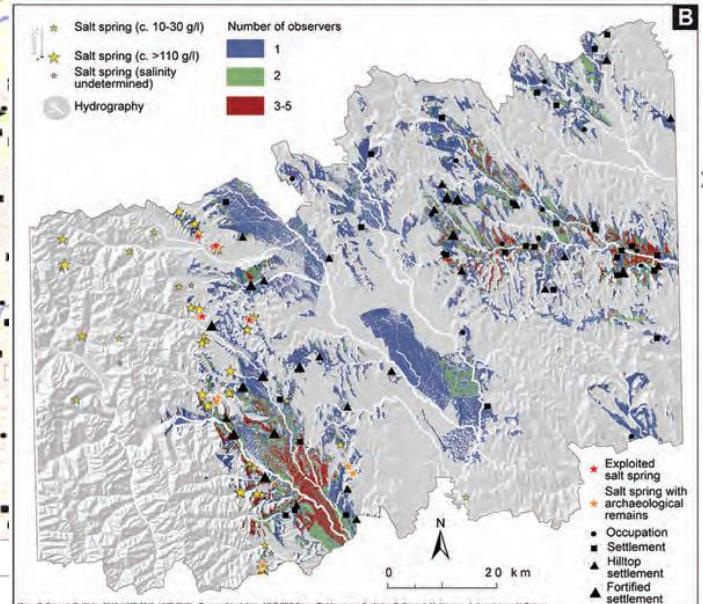
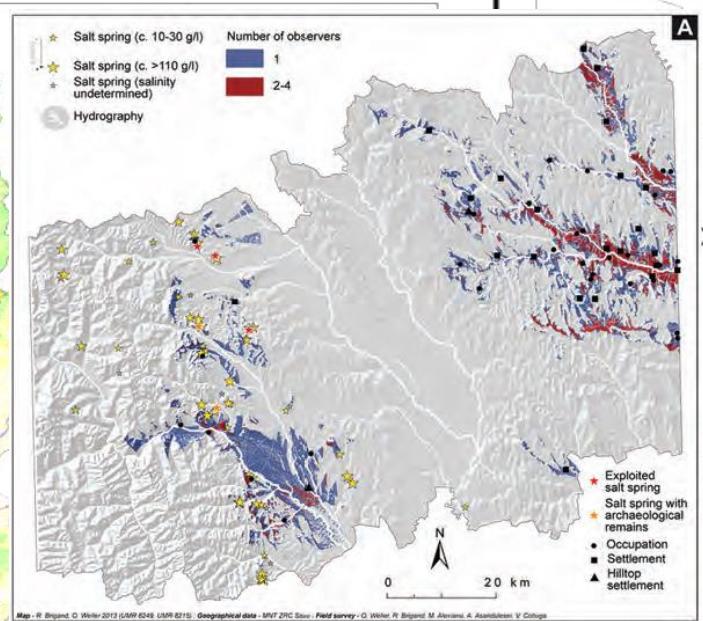
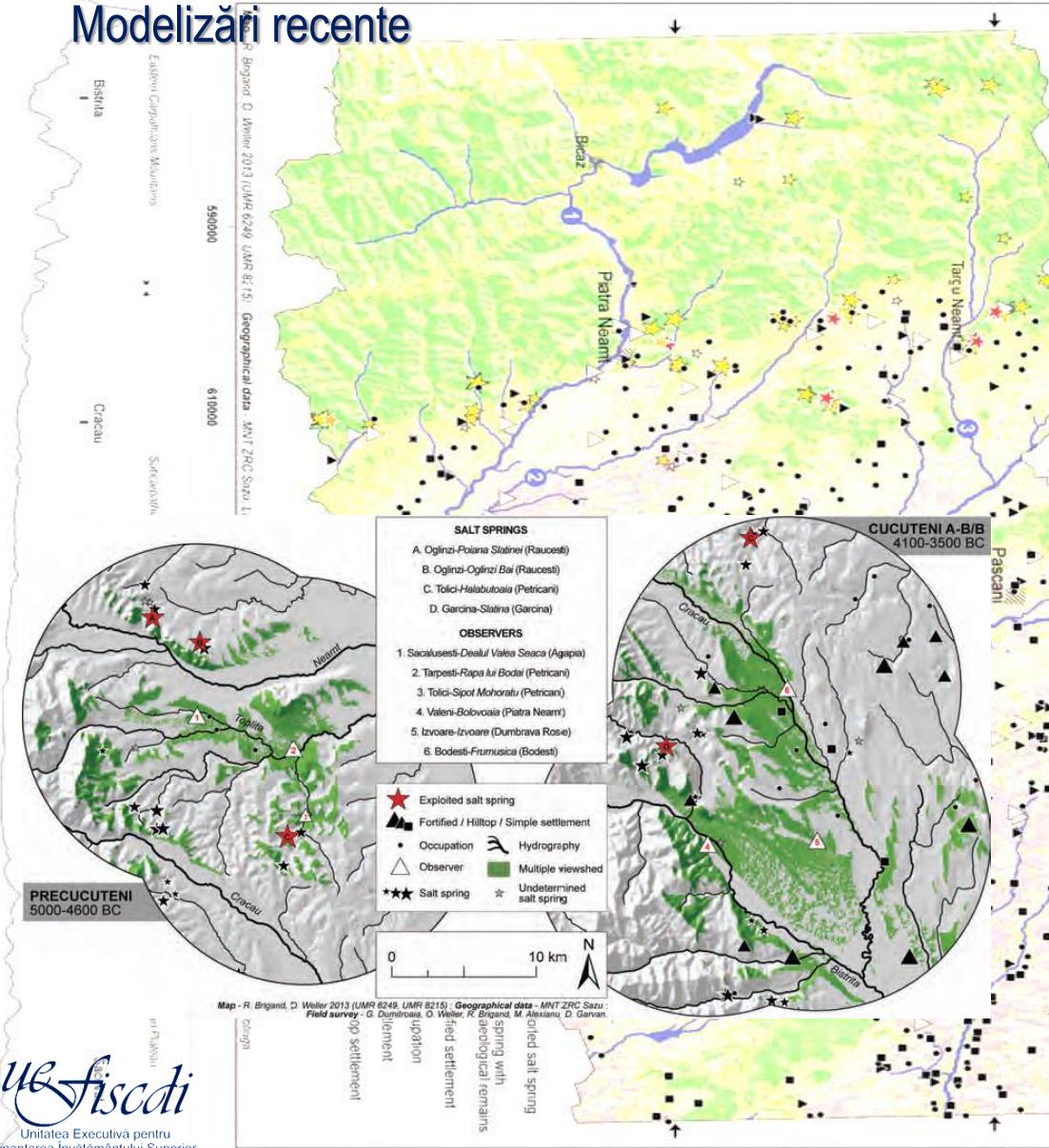


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Modelul radial de distribuție a apei sărate și a sării ignigene



Modelizări recente



Diseminare continuă

ethnosalro.uaic.ro

The screenshot shows the homepage of the Ethnosal Ro project website. At the top, there's a red header bar with the project name 'Ethnosal Ro' and links for 'About the project', 'News & Events', and 'Contact'. Below the header, a banner displays three maps of the study area, each with a different color scheme (blue, red, purple) representing different data layers. To the right of these maps is a 'SITE MENU' sidebar with links to various project sections like 'About the project', 'Ethnology', 'Health', 'Environment', 'Geography', 'Field research', 'Field notes', 'The team', 'Media', 'Publications', 'Press', 'Site Guide', 'Ethnographic Discourse', 'Project Report', 'Research Card', 'Field Log', 'Field Trips', 'Ethnological Methods', 'Other Culture', 'Mobile Phone Data', 'News Archive', and 'Contact'. Below the menu is a 'LINKS' section with links to 'Archaeological Congress', 'Archaeological Symposium', 'Ethnology 2011', 'Ethnology 2012', 'Ethnology 2013', 'Ethnology 2014', and 'Ethnology 2015'. A search bar is located at the bottom right of the sidebar. The main content area features three large maps arranged vertically. Each map shows a circular area with concentric dashed lines and various colored dots (red, blue, green) scattered across it. Below each map is a small caption: 'The three maps with anomalies from the Melchior period during the Research, the Melchior period, and the early 19th century. The anomalies are shown as red, blue and green dots. The concentric circles represent the radius of the anomalies.' The bottom map also includes a legend on the left side. At the very bottom of the page, there's a decorative footer with stylized mountain and water icons.

Activity briefing

Articole în reviste indexate ISI Web of Knowledge: **8**

Articole în reviste BDI: **6**

Capitole de cărți: **2**

Proceedings: **9**

Editare de volume: **6**

Simpozioane și colocvii internaționale organizate: **7**

Conferințe susținute: **4**

Participări la manifestări științifice internaționale: **26**