

# Questionnaire in order to compile a database with collections of soil thin sections

10 risposte

[Pubblica i dati di analisi](#)

email address \*

10 risposte

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## Name of the Institution

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Università degli Studi di Milano, Dipartimento di Scienze della Terra "A. Desio"

UMR5199 PACEA (CNRS, Univ. Bordeaux)

Estación Experimental de Zonas Aridas - Consejo Superior de Investigaciones Cientificas

Cultural Heritage Agency of the Netherlands (RCE)

Dept. of Earth Sciences, 1812 Sir Isaac Brock Way, St. Catharines, ON  
L2S 3A1 Canada

CNRS

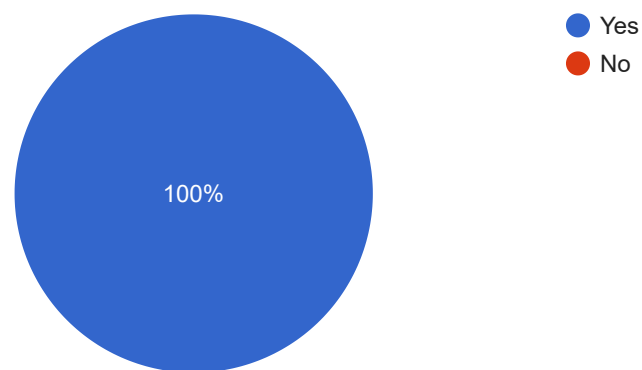
CRISP - Interdepartmental Research Center at University of Naples Federico II

School of Environmental Sciences, University of Guelph, GUELPH, ON, N1G2W1, CANADA

Dept. of Humanities, University of Trento (Italy)

Are you in charge / is there in your institution a collection of soil and/or  
geoarchaeological thin sections?

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If you are not in charge, can you provide us with the name and contact@ of the person  
responsible for it?

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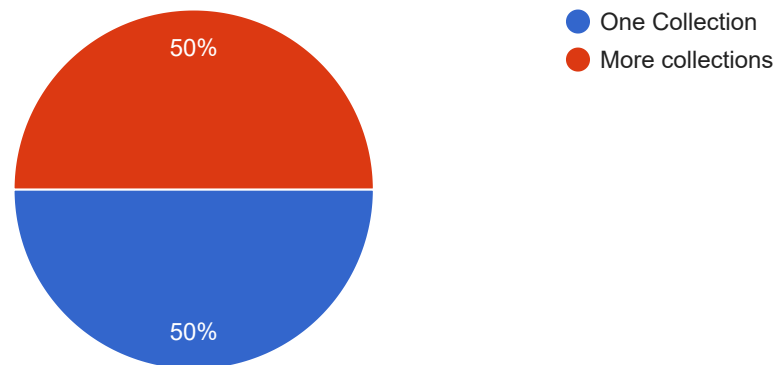
Ancora nessuna risposta a questa domanda.



Is it one collection or an assemblage of different collections ?



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In case your collection is an assemblage of different collections. Can you let us know more details about these different collections ?

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collections of more members of the staff, including a retired professor

1) soils from badlands in SE Spain, 2) Soils from semiarid catenas on different lithologies (mica shists, dolomites, other).

(1) Live collection of geoarchaeology thin sections (RCE), (2) Old teaching collection soil science Wageningen University (WUR) ,(3) Small selection geoarchaeology samples from (destroyed) collection University of Amsterdam (UvA) (4) Collection of (now terminated) KMS micromorphology consultancy.

Glacigenic samples also, Pedological, Archaeological, Concrete etc.

The collection gathers more than 3600 soil thin sections that E.A. Fitzpatrick donated to the newly created CRISP Research Center. Therefore, the collection is an assemblage of soil thin sections sampled in many countries, ordered, studied and analysed by Fitzpatrick and his students.

Canadian Soil Thin Section Collection (includes collections from AAFC, U of Guelph, U of Saskatchewan)



What is it the main focus of the collection (s) ? (e.g. teaching, pedology, archeology, etc)

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teaching, archaeology

Pedology part in past Geomorphological-Hydrological Projects.

Archaeology, teaching

A combination as this is also a commercial lab.

Archaeology

Many different focus on teaching and pedology (about soil morphology, genesis, parent material, soil sequences, features...)

Pedology

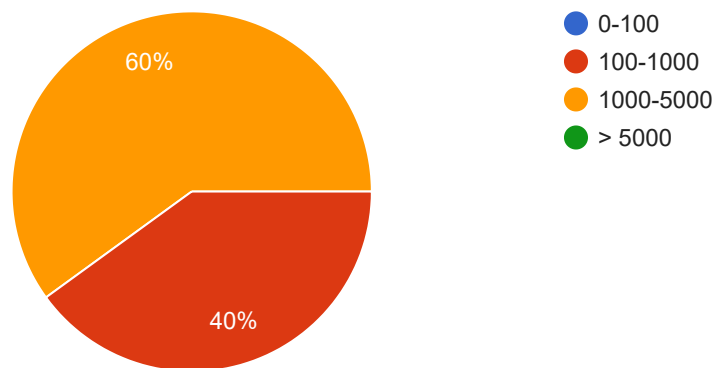
Geoarchaeological research, and teaching as well

Teaching, Archaeology, Landscape interpretation and pedology

3) It is composed by how many thin sections?

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What is the size for most of the sections?



Express the size in cm (length x width) - main type

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10 cm x 5 cm

9 cm X 5 cm

13 x 6

6x8

7cm X 5cm

14x7 cm

4.6 cm x 2.7 cm

10 cm x 6 cm

13x6.5cm

Express the size in cm (length x width) - other sizes

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3 cm x 4cm, 9 cm x 12 cm

8x16

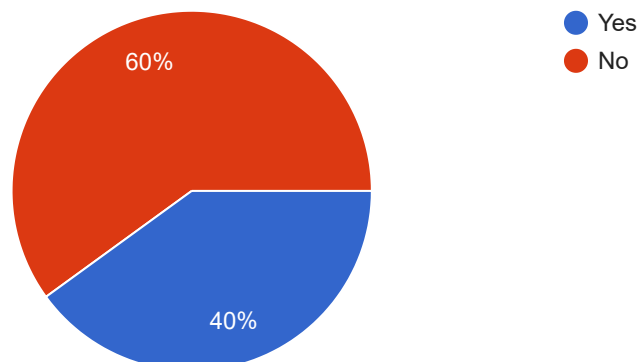
10cm x 7.5cm

Some TS are 5 cm x 6 cm, a few 12 cm x 6 cm

Is there any database linked to it?

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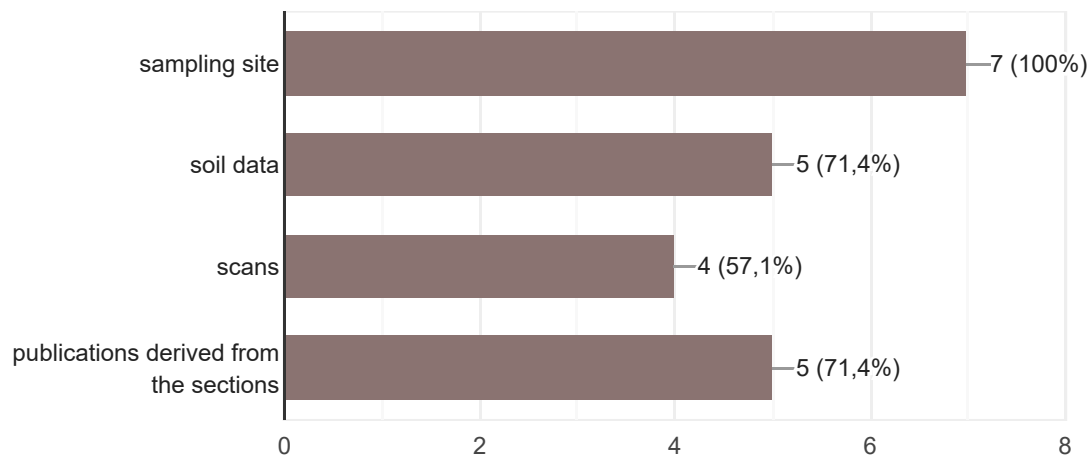
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Mark if the database contains, for most of the thin sections the followings:

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If you wish, here you can insert further information on the items above

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Database here: [https://fm02.db.huma-num.fr/fmi/webd/PACEA\\_lamellotheque](https://fm02.db.huma-num.fr/fmi/webd/PACEA_lamellotheque)

Plan is to move the KMS and UvA geoarchaeology thin sections and part of the RCE collection to the archaeological depots where the finds and documentation of the excavations are stored.

Currently, a detailed database of thin section is in progress.

Canadian Soil Thin Section Collection

Data-base is currently under construction.

I am currently compiling an archive and database for the soil thin sections, reports and publications held by the McBurney Lab



Any publications have been derived from the thin section collection ? Please make a reference to literature

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Many papers

[https://fm02.db.huma-num.fr/fmi/webd/PACEA\\_lamellotheque](https://fm02.db.huma-num.fr/fmi/webd/PACEA_lamellotheque)

- Josa, R., Gorchs, G., Ginovart, M., Solé-Benet, A. 2013. Influence of tillage on soil macropore size, shape of top layer and crop development in a sub-humid environment. *Biologia*, 68 (6): 1099-1103. <http://doi.org/10.2478/s11756-013-0250-y>
- Miralles, I., Cantón, Y., Solé-Benet, A. 2011. Two-dimensional porosity of crusted silty soils: indicators of soil quality in semiarid rangelands? *Soil Sci. Soc. Am. J.* 75(4): 1330-1342. <https://doi.org/10.2136/sssaj2010.0283>
- Bech, J. y Solé, A. 1975. Datos micromorfológicos sobre la recarbonatación de los suelos rojos de la Sierra Litoral (Barcelona). *Trabajos sobre Neógeno-Cuaternario*, 6:19-35, Madrid. ISSN: 0210-5217. <http://simurg.bibliotecas.csic.es/viewer/image/CSIC000135053/7/#topDocAnchor>
- Bech, J., Fédoroff, N. y Solé, A. 1977. Etude des Andosols d'Olot (Gerona, Espagne); 3ème partie: micromorphologie. *Cahiers de l'ORSTOM, sér. Pédologie*, 15:381-390, Paris (France). ISSN : 0029-7259.
- Solé Benet, A. 1979. présentation de thèse par J. Boulaïne: Contribution à l'étude du colmatage minéral des drains. Une démarche expérimentale basée sur la Micromorphologie

Name of the scientist(s) who ordered the collection of thin sections

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P. Bertran, J.-P. Texier, A. Lenoble, J.P. Raynal

Prof. Juan Puigdefábregas and Albert Solé-Benet

Hans Huisman (RCE), Toine Jongmans (WUR), Herman Mucher (UvA), Maja Kooistra (KMS)

Prof. John Menzies

Quentin Borderie

Was developed primarily by Agriculture Canada, R. Protz, R. St.Arnaud, A. Mermut, C. Fox

Diego E. Angelucci, with the help of Jacopo Armellini

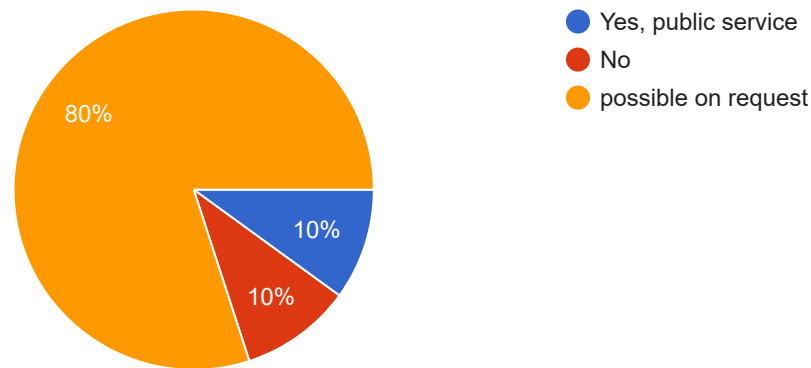
Charles French



Is this collection available for consultation?



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Any additional comments (general description of the main types of materials, lab facilities,...)

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We are planning to order the collection and prepare a database.

Mainly thin sections from palaeolithic sites, mainly SW France, and actual periglacial context

petrographic microscope linked to camera and PC, vacuum impregnation unit, diamond saw, polishing rotary units.

Lab facilities include polarisation and fluorescence microscopy as well as thin section production. Thin section production is at present not offered commercially.

have digital imaging facility

Archaeological sites from Paleolithic to the Middle Ages, both caves and open-air sites, mainly in Italy, Spain and Portugal.

The McBurney Lab houses two Brot thin section machines in a fully equipped thin sectioning lab, an FTIR analyser, and a suite of a dozen polarizing microscopes (mainly

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