

A study on hydro-geomorphological system using radioactive nuclides

メタデータ	言語: jpn 出版者: 公開日: 2017-10-05 キーワード (Ja): キーワード (En): 作成者: Kashiwaya, Kenji メールアドレス: 所属:
URL	https://doi.org/10.24517/00034770

This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 International License.



KAKEN
2003
11

金沢大学

放射性核種を活用した流域—湖沼系における水文地形システムの解明

(研究課題番号 13480019)

平成13年－平成15年度科学的研究費補助金【基盤研究(B)(2)】

研究成果報告書

平成16年5月

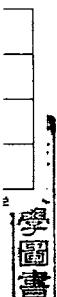
研究代表者 柏谷 健二

(計測応用研究センター)

金沢大学附属図書館



0400-04985-6



KAKEN
2003
11

放射性核種を活用した流域－湖沼系に おける水文地形システムの解明

(課題番号：13480019)

平成13年-平成15年度科学的研究費補助金[基盤研究(B)(2)]

研究成 果 報 告 書

平成16年5月

研究代表者 柏 谷 健 二
(金沢大学自然計測応用研究センター)

放射性核種を活用した流域－湖沼系における水文地形システムの解明

平成 13 年－平成 15 年度科学研究費補助金 基盤研究(B) (2) 研究成果報告書

(課題番号 13480019)

研究組織

研究代表者： 柏 谷 健 二 (金沢大学自然計測応用研究センター)

研究分担者： 長 谷 部 徳 子 (金沢大学自然計測応用研究センター)

研究分担者： 濱 島 靖 典 (金沢大学自然計測応用研究センター)

研究分担者： 増 沢 敏 行 (名古屋大学環境学研究科)

研究協力者： 國 香 正 稔 (立山砂防カルデラ博物館)

研究協力者： 室 井 克 則 (立山砂防カルデラ博物館)

研究経費

平成 13 年度 4200 千円

平成 14 年度 1500 千円

平成 15 年度 1800 千円

計 7500 千円

研究発表

* 論文発表

Kashiwaya, K., Tsuya, Y. and Okimura, T., (2004):Earthquake-Related Geomorphic Environment and Pond Sediment Information; Earth Surface Processes and Landforms, 29. (in press)

Kashiwaya, K., Ochiai, S., Sakai, H. and Kawai, T., (2003): Onset of current Milankovitch-type climatic oscillations in Lake Baikal sediments at around 4 Ma; Earth and Planetary Science Letters, 213, 185-190.

Kashiwaya, K., Ochiai, S., Tsukahara, H., Sakai, H. and Kawai, T., (2003): Long-term Late

- Cenozoic global environmental changes inferred from Lake Baikal sediments; Long Continental Records from Lake Baikal, Springer, 3-20.
- Ochiai, S. and Kashiwaya, K., (2003): Hydro-geomorphological changes and sedimentation processes printed in sediments from Lake Baikal; Long Continental Records from Lake Baikal, Springer, 297-312.
- Sakai, H., Nomura, Sh., Horii, M., Kashiwaya, K., Kawai, T., Kravchinsky, V. and Peck, J., (2003): Paleomagnetism and Paleo-environmental magnetism studied on BDP98 sedimentary cores from Lake Baikal; Long Continental Records from Lake Baikal, Springer, 233-243.
- Takamatsu, T., Kashiwaya, K. and Kawai, T., (2003): Inorganic characteristics of surface sediment from Lake Baikal: indigenous elemental composition and Pb Contamination; Long Continental Records from Lake Baikal, Springer, 313-327.
- 柏谷健二 (2003) : 新生代氷河時代の確立と長周期日射量変動 ; 月刊「地球」, No.42, 61-67.
- 柏谷健二 (2003) : 地表環境の変動と湖沼堆積物情報の解析 ; 地形, 24, 3-11.
- Kashiwaya, K., Ochiai, S., Tsukahara, H., Sakai, H. and Kawai, T., (2002) Some issues to be considered in establishing age models for the long Lake Baikal sediment records; Quaternary International, 95/96, 205-207
- 島田敏行・柏谷健二・兵頭政幸・増沢敏行 (2002) : 余呉湖湖沼堆積物解析から推定される後期完新世の湖沼－流域系水文環境変動 ; 地形, 23, 415-431.

* 学会等の発表

- Kashiwaya, K., (2003.11.): Long-term environmental changes printed in lacustrine sediments in East Eurasia Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Kashiwaya, K. Tsuya, Y. and Okimura, T., (2002, 9.): Earthquake-related geomorphic environments and pond sediment information; BGRG Symposium, Leeds, UK.
- Aota, Y. and Kashiwaya, K., (2003.11.): Vertical sedimentation processes and grain size distribution in Lake Biwa, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Ochiai, S. and Kashiwaya, K., (2003.11.): A Study on sedimentation processes for reconstruction of long-term hydro-geomorphological changes in Lake Baikal, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Hasebe, N. and Kashiwaya, K., (2003.11.): Re-evaluation of fission track ages from Lake Biwa, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.

- Krivonogov, S., Mistryukov, A., Sheinkman, V., Kashiwaya, K. and Gillespie, A., (2003.11.): The Darhad paleolake: a polygon for studies of long-term and short-term environmental changes in Northern Mongolia, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Nishiji, K., Kashiwaya, K., Tsuya, Y., Kunika, M. and Muroi, K., (2003.11.): A Study on short-term changes in hydro-geomorphologic environment based on catchment and pond sediment information, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Kashiwaya, K., Fujie, T. and Tsuya, Y, (2003.11.): An analysis of erosional environment in the Rokko Mountains based on pond sediment and surrounding catchment information, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Sakaguchi, A., Yamamoto, M., Ishikawa, K., Kashiwaya, K., Ohtsuka, Y. and Yokota, K., (2003.11.): Uranium and Thorium characteristics of sediment from Lake Biwa – an attempt to evaluate environmental changes, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Machida, N., Kashiwaya, K. and Kawai, T., (2003.11.): A Study on climato-hydrological fluctuations inferred from Lake Baikal sediments near the Selenga Delta, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Kashiwaya, K., Tsukamoto, T., Hiromori, R. and Kawai, T., (2003.11.): A study on environmental changes inferred from lake bottom sediments of Lake Hovsgol in Mongol, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- Ishikawa, K., Kashiwaya, K. and Yamamoto, A., (2003.11.): Climato-limnological changes inferred from long core sediments of Lake Biwa, Japan, Workshop "Terrestrial sediment information and long-term environmental changes in East Eurasia", Kanazawa.
- 柏谷健二, 河合崇欣(2003, 9.): バイカル湖の湖底堆積物による新生代氷河時代の開始と長周期日射量変動, 日本陸水学会 2003 年大会, 岡山。
- Kashiwaya, K (2003.3.): Environmental Changes Printed in Lacustrine Sediments and Earth Surface Processes, International symposium of the Kanazawa University 21st-Century COE Program, Kanazawa, Japan..
- Hasebe, N. and Kashiwaya, K. (2003.3): Radiometric dating of lake sediments: A review, International symposium of the Kanazawa University 21st-Century COE Program, Kanazawa, Japan.
- Kashiwaya, K., Ochiai, S., Sakai, H. and Kawai, T. (2002, 4.): Long-term climatic cycles: implications of long Baikal records, European Geophysical Society 17th Conference, Nice, France.
- Kashiwaya, K. Tsuya, Y. and Okimura, T. (2002, 9.): Earthquake-related geomorphic environments

and pond sediment information, BGRG Symposium, Leeds, UK.

柏谷健二, 楠本貴幸, 唐 川 (2002, 9.) : 雲南高原湖沼における堆積過程と流域の物理環境, 日本陸水学会 2002 年大会, 東京.

Kashiwaya, K., Ishikawa, K. and Yamamoto, A. (2002, 11.) : Climato-limnological changes inferred from long core sediments of Lake Biwa, Japan, Japan-China Joint International Conference, Kunming, China.

Kusumoto, T., Kashiwaya, K., Hyodo, M., Okimura, T., Tanaka, Y., Tang, C. and Zhou, Y. (2002, 11.): Hydro-geomorphological environment in the eastern margin of the Tibetan Plateau inferred from geomorphic information and lake sediment information, Japan-China Joint International Conference, Kunming, China.

Kashiwaya, K., Machida, N. and Kawai, T. (2002, 11.): Climato-hydrological fluctuation inferred from Lake Baikal sediment near Selenga delta, Japan-China Joint International Conference, Kunming, China.

Ochiai, S. and Kashiwaya, K. (2002, 11.): A study on processes for long-term hydro-geomorphological changes in Lake Baikal with conceptual models, Japan-China Joint International Conference, Kunming, China.

Kashiwaya, K., Nishiji, K., Tsuya, Y. and Kunika, M. (2002, 11.): A study on short-term changes in hydro-geomorphic environment based on topographical and pond sediment information, Japan-China Joint International Conference, Kunming, China.

* 出版物

Kashiwaya, K. (ed.) (2003): Long Continental Records from Lake Baikal; Springer, 370p.