
Poster Session 1 – Population Dynamics

46 Recent bamboo flowering in Chittagong Hill Tracts of Bangladesh: anticipating new rodent outbreaks

Nikhil Chakma¹, Noor Jahan Sarker¹, Steven R. Belmain², AID-Comilla³

¹Department of Zoology, University of Dhaka, Bangladesh; Association for the Integrated Development-Comilla, Bangladesh, nikhil_forestry@yahoo.com

²Natural Resources Institute, University of Greenwich, UK

³Association for the Integrated Development-Comilla, Bangladesh

Rodent outbreaks resultant from bamboo flowering is a real phenomenon that damages farmer crops in parts of the world particularly Chittagong Hill Tracts (CHT) of Bangladesh, Mizoram in India and Chin State of Myanmar. In 2006 *Melocanna* bamboo flowered in CHT and severe food shortage was reported of that regions until 2011. Recently *Dendrocalamus longispathus* (Kurz) and *Denrocalamus giganteus* (Munro) have flowered in CHT where farmers are predicting a new rodent outbreaks due to bamboo flowering. Following the bamboo flowering, six community meetings were organized in different places to understand the timing of bamboo flowering and magnitude of bamboo flowering. The farmers reported that bamboo flowering started in January and may produce seeds in May-June. Previous research suggests that timing of bamboo flowering and seeding coincided with the increase of the rodent population and damage and crops loss. Effective monitoring of bamboo seeding as well as early awareness of the rural people about the increase of rodent population with the use of appropriate technology like community trapping, trap barriers system might avoid crops loss and damage to household belongings by the rodents. Government and non-government institutions along with rodent experts need to take immediate measures to avoid food shortages and associate risks derived from rodent outbreaks in CHT.

4 5 9

Julius-Kühn-Archiv

Jens Jacob, Jana Eccard (Editors)

6th International Conference of Rodent
Biology and Management
and
16th Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts



Julius Kühn-Institut
Bundesforschungsinstitut für Kulturpflanzen

4 5 9

Julius-Kühn-Archiv

Jens Jacob, Jana Eccard (Editors)

6th International Conference of Rodent
Biology and Management
and
16th Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts



Editors:

Jens Jacob¹ and Jana Eccard²

¹Julius Kühn Institute, Federal Research Centre for Cultivated Plants,
Institute for Plant Protection in Horticulture and Forests, Vertebrate Research,
Toppeideweg 88, 48161 Münster, Germany

²University of Potsdam, Institute of Biochemistry and Biology,
Animal Ecology Group, Maulbeerallee 1,
14469 Potsdam, Germany

Local Organizing Committee:

Jana Eccard, University of Potsdam

Jens Jacob, Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Münster

Daniela Reil, Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Münster

Christiane Scheffler, University of Potsdam

Elke Seydewitz, University of Potsdam

Scientific organising committee:

Emil Tkadlec (Czech Republic); Frauke Ecke (Sweden); Grant Singleton (Philippines); Heikki Henttonen (Finland); Jana Eccard (Germany); Jens Jacob (Germany); Lyn Hinds (Australia); Prince Kaleme (Congo); Xavier Lambin (UK); Zhibin Zhang (China)

International Steering Committee Rodens et Spatium:

Abraham Haim (Israel); Alexey Surov (Russia); Ana Maria Benedek (Romania); Boris Krasnov (Israel);

Emil Tkadlec (Czech Republic); Éric Le Boulengé (Belgium); Farida Khammar (Algeria);

František Sedláček (Czech Republic); Gert Olsson (Sweden); Grant Singleton (Australia);

Heikki Henttonen (Finland); Jan Zima (Czech Republic); Jean-François Cosson (France); Linas Balčiauskas

(Lithuania); Maria da Luz Mathias (Portugal); Molly McDonough (USA); Mustafa Sözen (Turkey);

Nigel Yoccoz (Norway); Olga Osipova (Russia); Takuya Shimada (Japan); Victor Sánchez Cordero (Mexico);

Xavier Lambin (United Kingdom); Yasmina Dahmani (Algeria)

International Steering Committee**International Conference of Rodent Biology and Management:**

Andrea Byrom (New Zealand); Charley Krebs (Canada); Grant Singleton (Philippines); Jens Jacob (Germany);

Jiqi Lu (China); Lyn Hinds (Australia); Nico Avenant (South Africa); Peter Banks (Australia);

Peter Brown (Australia); Regino Cavia (Argentina); Rhodes Makundi (Tanzania); Roger Pech (New Zealand);

Steven Belmain (UK); Sudarmaji (Indonesia); Zhibin Zhang (China)

Bibliografische Information der Deutschen Nationalbibliothek

Die Deutsche Nationalbibliothek verzeichnet diese Publikation

In der Deutschen Nationalbibliografie: detaillierte bibliografische

Daten sind im Internet über <http://dnb.d-nb.de> abrufbar.

ISSN 1868-9892

ISBN 978-3-95547-059-3

DOI 10.5073/jka.2018.459.000



Alle Beiträge im Julius-Kühn-Archiv sind unter einer

Creative Commons - Namensnennung - Weitergabe unter gleichen Bedingungen -

4.0 Lizenz veröffentlicht.

Printed in Germany by Arno Brynda GmbH, Berlin.