<table>
<thead>
<tr>
<th>Title</th>
<th>Cover and Contents etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author(s)</td>
<td></td>
</tr>
<tr>
<td>Citation</td>
<td>Southeast Asian Studies (2017), 6(2)</td>
</tr>
<tr>
<td>Issue Date</td>
<td>2017-08</td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://hdl.handle.net/2433/226976">http://hdl.handle.net/2433/226976</a></td>
</tr>
<tr>
<td>Right</td>
<td>© Center for Southeast Asian Studies, Kyoto University</td>
</tr>
<tr>
<td>Type</td>
<td>Others</td>
</tr>
<tr>
<td>Textversion</td>
<td>publisher</td>
</tr>
</tbody>
</table>

Kyoto University
RURAL NORTHEAST THAILAND IN TRANSITION: RECENT CHANGES AND THEIR IMPLICATIONS FOR THE LONG-TERM TRANSFORMATION OF THE REGION

Guest Editors: KONO Yasuyuki, ARUNEE Promkhambut, and A. Terry Rambo

KONO Yasuyuki et al.
Introduction

A. Terry Rambo
The Agrarian Transformation in Northeastern Thailand: A Review of Recent Research

CHAI Podhisita
Household Dynamics, the Capitalist Economy, and Agricultural Change in Rural Thailand

SHIRAI Yuko and A. Terry Rambo
Household Structure and Sources of Income in a Rice-Growing Village in Northeast Thailand

WATANABE Kazuo
Improvement in Rainfed Rice Production during an Era of Rapid National Economic Growth: A Case Study of a Village in Northeast Thailand

WATANABE Moriaki et al.
Factors Influencing Variations in the Density, Extent of Canopy Cover, and Origin of Trees in Paddy Fields in a Rainfed Rice-Farming Village in Northeast Thailand

ARUNEE Promkhambut and A. Terry Rambo
Multiple Cropping after the Rice Harvest in Rainfed Rice Cropping Systems in Khon Kaen Province, Northeast Thailand

CHALEE Gedgaew et al.
Trends in Hybrid Tomato Seed Production under Contract Farming in Northeast Thailand

SOPAT Praweenwongwuthi et al.
Recent Changes in Agricultural Land Use in the Riverine Area of Nakhon Phanom Province, Northeast Thailand

BOOK REVIEWS

Print ISSN: 2186-7275
Online ISSN: 2423-8686
Southeast Asian Studies

Since its first publication in 1963, the bilingual quarterly Southeast Asian Studies (SEAS), Kyoto University has reflected the Center for Southeast Asian Studies’ strong commitment to publishing the best of empirically grounded, multidisciplinary, and contemporary research on Southeast Asia and related areas.

In 2012, we re-launched Southeast Asian Studies as an all-English journal, alongside its Japanese sister journal, Tonan Ajia Kenkyu. Intended for a regional as well as global readership, Southeast Asian Studies is published three times a year.

The new journal aims to promote excellent, agenda-setting scholarship and provide a forum for dialogue and collaboration both within and beyond the region. Southeast Asian Studies engages in wide-ranging and in-depth discussions that are attuned to the issues, debates, and imperatives within the region, while affirming the importance of learning and sharing ideas on a cross-country, global, and historical scale. An integral part of the journal’s mandate is to foster scholarship that is capable of bridging the continuing divide in area studies between the social sciences and humanities, on the one hand, and the natural sciences, on the other hand. To this end, the journal welcomes accessibly written articles that build on insights and cutting-edge research from the natural sciences. The journal also publishes research reports, which are shorter but fully peer-reviewed articles that present original findings or new concepts that result from specific research projects or outcomes of research collaboration.

Editorial Board
Nathan Badenoch (Editor)
Caroline By Hau
Mario I. López
Hitotsumatsu Yoshimi
Yasuyuki Horiwaki
W. De Jong
Julius Bautista (Book Review Editor)
Shuitaha Narumi (Managing Editor)

International Advisory Board
Anna L. Tsing (University of California, Santa Cruz, USA)
Anthony Reid (Australian National University, Australia)
Christopher John Baker (Independent Researcher, Thailand)
Filomeno V. Aguilar Jr. (Ateneo de Manila University, the Philippines)
Guy François Thébault (Centre de coopération internationale en recherche agronomique pour le développement, France)
Hjorleifur Rafn Jonsson (Arizona State University, USA)
Hsin-Huang Michael Hsiao (Academia Sinica, Taiwan)
Jefferson M. Fox (East-West Center, USA)
Le: Hong (Nanyang Technological University, Singapore)
Paul H. Kratovska (NUS Press, Singapore)
Shigashiri Takashi (Institute of Developing Economics Japan External Trade Organization, Japan / National Graduate Institute for Policy Studies, Japan / Ritsumeikan University, Japan)
Sugihara Kaoru (Research Institute for Humanity and Nature, Japan)
Tanaka Koji (Kyoto University, Japan)
Yunita Triwardani Wicaksono (University of Indonesia, Indonesia)

Notice to Contributors

(1) Published as a sister journal of Tonan Ajia Kenkyu, Southeast Asian Studies (SEAS) is an English journal that reflects the Center for Southeast Asian Studies’ strong commitment to publishing the best of empirically grounded, multidisciplinary, and contemporary research in the natural sciences, social sciences, and the humanities. Peer-reviewed by a broad range of specialists, the journal accepts articles for review all year round.

(2) Manuscripts, book reviews, and research reports submitted for publication undergo rigorous peer review. This is based on initial screening by the editorial committee before anonymous refereeing. Manuscripts are treated as confidential documents and any information about a submitted manuscript will not be shared with individuals other than the corresponding author, reviewers, potential reviewers, and other editorial advisers as appropriate. Submitted manuscripts will not be returned to the author.

(3) Submissions must be original research not previously published in other journals, or as chapters in edited volumes. Only submissions not being reviewed in other journals will be accepted. Authors are responsible for ensuring the accuracy of the information they present in their submitted manuscripts, and may be asked to submit supporting data in connection with submitted papers under editorial review.

(4) Manuscripts must be written in English. Manuscripts should not be less than 6,000 words nor exceed 15,000 (excluding figures, charts, maps, and tables). An abstract of about 200 words and a list of no more than 8 keywords should be appended to each manuscript. Book reviews should be limited to about 2,000 words. Contributors should consult the Editorial Office if their manuscripts include special letters or symbols or a large number of figures, charts, or other material that may require special attention in the production process.

(5) Manuscripts must be submitted in electronic format (Microsoft Word) either by e-mail or by regular mail. American spelling and punctuation (including quotation marks) are preferred. The entire document should be double-spaced and use 12-point Times New Roman font. Figures, charts, maps, and photos should be provided in a digital format as separate files, with clear placement indicators in the text. All images should include captions and sources. SEAS requires high-resolution images along with permission to use them when included with articles for publication. As SEAS uses an anonymous refereeing system, authors are requested to omit their names and all references to their identities in the main text of their article. Please submit an abstract with author name, affiliation, and contact details in a separate Word document.

(6) Copyright of all manuscripts published in SEAS will be assigned to the Center for Southeast Asian Studies, Kyoto University. For inquiries about republication, translation, or use of articles published in SEAS please contact the Editorial Office.

(7) Authors will not be charged or remunerated for publication of manuscripts. But in cases whereby color charts, maps, or photos are indispensable for understanding the contents, authors will be charged at cost price. A PDF copy will be provided free of charge. Up to 90 copies of reprints can be prepared on request; additional copies can be ordered at cost price.

(8) Guidelines on the bibliographic format to be employed for English and foreign-language references can be found on our journal’s homepage (english.kyoto-seas.org) or can be requested from the Editorial Office.

(9) Manuscripts and editorial communications should be sent to the Editorial Office, Center for Southeast Asian Studies, Kyoto University, 46 Shimomachi-cho, Yoshida, Sakyo-ku, Kyoto 606-8501, Japan.

Tel. +81-75-753-7344
Fax. +81-75-753-7356

E-mail: english-editorial@cseas.kyoto-u.ac.jp

Printed by Nakanishi Printing Company

©Copyright 2017 Center for Southeast Asian Studies, Kyoto University
## CONTENTS

**Rural Northeast Thailand in Transition:**
Recent Changes and Their Implications for the Long-Term Transformation of the Region

Guest Editors: Kono Yasuyuki, Arunee Promkhambut, and A. Terry Rambo

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kono Yasuyuki</td>
<td>Introduction</td>
<td>207</td>
</tr>
<tr>
<td>Arunee Promkhambut</td>
<td>The Agrarian Transformation in Northeastern Thailand:</td>
<td>211</td>
</tr>
<tr>
<td>A. Terry Rambo</td>
<td>A Review of Recent Research</td>
<td></td>
</tr>
<tr>
<td>Chai Podhisita</td>
<td>Household Dynamics, the Capitalist Economy,</td>
<td>247</td>
</tr>
<tr>
<td>and Agricultural Change in Rural Thailand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shirai Yuko</td>
<td>Household Structure and Sources of Income in a Rice-Growing Village in Northeast Thailand</td>
<td>275</td>
</tr>
<tr>
<td>A. Terry Rambo</td>
<td>Improvement in Rainfed Rice Production during an Era of Rapid National Economic Growth:</td>
<td>293</td>
</tr>
<tr>
<td>Watanabe Kazuo</td>
<td>A Case Study of a Village in Northeast Thailand</td>
<td></td>
</tr>
<tr>
<td>Watanabe Moriaki</td>
<td>Factors Influencing Variations in the Density,</td>
<td>307</td>
</tr>
<tr>
<td>Patma Vityakon</td>
<td>Extent of Canopy Cover, and Origin of Trees in Paddy Fields</td>
<td></td>
</tr>
<tr>
<td>A. Terry Rambo</td>
<td>in a Rainfed Rice-Farming Village in Northeast Thailand</td>
<td></td>
</tr>
<tr>
<td>Arunee Promkhambut</td>
<td>Multiple Cropping after the Rice Harvest in Rainfed Rice Cropping Systems in Khon Kaen Province, Northeast Thailand</td>
<td>325</td>
</tr>
<tr>
<td>A. Terry Rambo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chalee Gedgaew</td>
<td>Trends in Hybrid Tomato Seed Production under Contract Farming in Northeast Thailand</td>
<td>339</td>
</tr>
<tr>
<td>Suchint Simaraks</td>
<td>A. Terry Rambo</td>
<td></td>
</tr>
<tr>
<td>Sorat Praweenwongwuthi</td>
<td>Recent Changes in Agricultural Land Use in the Riverine Area of Nakhon Phanom Province, Northeast Thailand</td>
<td>357</td>
</tr>
<tr>
<td>Tewin Kaewmuangmoon</td>
<td>A. Terry Rambo</td>
<td></td>
</tr>
<tr>
<td>Suklanlaya Choenkwan</td>
<td>A. Terry Rambo</td>
<td></td>
</tr>
</tbody>
</table>

**Book Reviews**

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
</table>


Southeast Asian Studies

Since its first publication in 1963, the bilingual quarterly *Southeast Asian Studies* (SEAS), Kyoto University has reflected the Center for Southeast Asian Studies’ strong commitment to publishing the best of empirically grounded, multidisciplinary, and contemporary research on Southeast Asia and related areas.

In 2012, we re-launched *Southeast Asian Studies* as an all-English journal, alongside its Japanese sister journal, *Tonan Ajia Kenkyu*. Intended for a regional as well as global readership, *Southeast Asian Studies* is published three times a year.

The new journal aims to promote excellent, agenda-setting scholarship and provide a forum for dialogue and collaboration both within and beyond the region. *Southeast Asian Studies* engages in wide-ranging and in-depth discussions that are attuned to the issues, debates, and imperatives within the region, while affirming the importance of learning and sharing ideas on a cross-country, global, and historical scale. An integral part of the journal’s mandate is to foster scholarship that is capable of bridging the continuing divide in area studies between the social sciences and humanities, on the one hand, and the natural sciences, on the other hand. To this end, the journal welcomes accessibly written articles that build on insights and cutting-edge research from the natural sciences. The journal also publishes research reports, which are shorter but fully peer-reviewed articles that present original findings or new concepts that result from specific research projects or outcomes of research collaborations.

Editorial Board

Nathan Badenoch (Editor)
Caroline D. Haif
Mario I. López
Nishi Yoshimi
Yamamoto Hiroyuki
W. De Jong
Julius Bautista (Book Review Editor)
Suhita Narumi (Managing Editor)

International Advisory Board

Anna L. Tsing (University of California, Santa Cruz, USA)
Anthony Reid (Australian National University, Australia)
Christopher John Baker (Independent Researcher, Thailand)
Filomeno V. Aguilar Jr. (Ateneo de Manila University, the Philippines)
Guy François Trebil. (Centre de coopération internationale en recherche agronomique pour le développement, France)
Hjorulf Rah Jonsson (Arizona State University, USA)
Hsin-Huang Michael Hsiao (Academia Sinica, Taiwan)
Jefferson M. Fox (East-West Center, USA)
Li: Hong (Nanyang Technological University, Singapore)
Pasuk Phongpaichit (Chulalongkorn University, Thailand)
Paul H. Kratoska (NUS Press, Singapore)
Shiraishi Takashi (Institute of Developing Economies Japan External Trade Organization, Japan / National Graduate Institute for Policy Studies, Japan / Ritsumeikan University, Japan)
Sugihara Kaoru (Research Institute for Humanity and Nature, Japan)
Tanaka Koji (Kyoto University, Japan)
Yumita Triwardani Wena (University of Indonesia, Indonesia)

Notice to Contributors

1. Published as a sister journal of *Tonan Ajia Kenkyu*, *Southeast Asian Studies* (SEAS) is an English journal that reflects the Center for Southeast Asian Studies’ strong commitment to publishing the best of empirically grounded, multidisciplinary, and contemporary research in the natural sciences, social sciences, and the humanities. Peer-reviewed by a broad range of specialists, the journal accepts articles for review all year round.

2. Manuscripts, book reviews, and research reports submitted for publication undergo rigorous peer review. This is based on initial screening by the editorial committee before anonymous refereeing. Manuscripts are treated as confidential documents and any information about a submitted manuscript will not be shared with individuals other than the corresponding author, reviewers, potential reviewers, and other editorial advisers as appropriate. Submitted manuscripts will not be returned to the author.

3. Submissions must be original research not previously published in other journals, or as chapters in edited volumes. Only submissions not being reviewed in other journals will be accepted. Authors are responsible for ensuring the accuracy of the information they present in their submitted manuscripts, and may be asked to submit supporting data in connection with submitted papers under editorial review.

4. Manuscripts must be written in English. Manuscripts should not be less than 6,000 words nor exceed 15,000 (excluding figures, charts, maps, and tables). An abstract of about 200 words and a list of no more than 8 keywords should be appended to each manuscript. Book reviews should be limited to about 2,000 words. Contributors should consult the Editorial Office if their manuscripts include special letters or symbols or a large number of figures, charts, or other material that may require special attention in the production process.

5. Manuscripts must be submitted in electronic format (Microsoft Word) either by e-mail or by regular mail. American spelling and punctuation (including quotation marks) are preferred. The entire document should be double-spaced and use 12-point Times New Roman font. Figures, charts, maps, and photos should be provided in a digital format as separate files, with clear placement indicators in the text. All images should include captions and sources. SEAS requires high-resolution images along with permission to use them when included with articles for publication. As SEAS uses an anonymous refereeing system, authors are requested to omit their names and all references to their identities in the main text of their article. Please submit an abstract with author name, affiliation, and contact details in a separate Word document.

6. Copyright of all manuscripts published in SEAS will be assigned to the Center for Southeast Asian Studies, Kyoto University. For inquiries about republication, translation, or use of articles published in SEAS please contact the Editorial Office.

7. Authors will not be charged for publication of manuscripts. But in cases whereby color charts, maps, or photos are indispensable for understanding the contents, authors will be charged at cost price. A PDF copy will be provided free of charge. Up to 90 copies of reprints can be prepared on request; additional copies can be ordered at cost price.

8. Guidelines on the bibliographic format to be employed for English and foreign-language references can be found on our journal’s homepage (englishkyoto-seas.org) or can be requested from the Editorial Office.

9. Manuscripts and editorial communications should be sent to the Editorial Office, Center for Southeast Asian Studies, Kyoto University, 46 Shimoadachi-cho, Yoshida, Sakyo-ku, Kyoto 606-8501, Japan.

Printed by Nakanishi Printing Company

©Copyright 2017 Center for Southeast Asian Studies, Kyoto University
Rural Northeast Thailand in Transition: Recent Changes and Their Implications for the Long-Term Transformation of the Region

Guest Editors: Kono Yasuyuki, Arunee Promkhambut, and A. Terry Rambo

Kono Yasuyuki et al.
Introduction

A. Terry Rambo
The Agrarian Transformation in Northeastern Thailand: A Review of Recent Research

Chai Podhisita
Household Dynamics, the Capitalist Economy, and Agricultural Change in Rural Thailand

Shirai Yuko and A. Terry Rambo
Household Structure and Sources of Income in a Rice-Growing Village in Northeast Thailand

Watanabe Kazuo
Improvement in Rainfed Rice Production during an Era of Rapid National Economic Growth: A Case Study of a Village in Northeast Thailand

Watanabe Moriai et al.
Factors Influencing Variations in the Density, Extent of Canopy Cover, and Origin of Trees in Paddy Fields in a Rainfed Rice-Farming Village in Northeast Thailand

Arunee Promkhambut and A. Terry Rambo
Multiple Cropping after the Rice Harvest in Rainfed Rice Cropping Systems in Khon Kaen Province, Northeast Thailand

Chalee Gedgaew et al.
Trends in Hybrid Tomato Seed Production under Contract Farming in Northeast Thailand

Sorat Praweenwongwuthi et al.
Recent Changes in Agricultural Land Use in the Riverine Area of Nakhon Phanom Province, Northeast Thailand

Book Reviews