



Second circular

Second International Workshop on Emission Inventory in Asia

Date: March 11 and 12, 2011

Venue: Tsukuba International Conference Center (EPOCHAL
Tsukuba), Conference room 406
(2-20-3, Takezono, Tsukuba, Ibaraki, 305-0032, Japan)
<http://www.epochal.or.jp/eng/index.html>

Hosting: NIES (National Institute for Environmental Studies), Japan

Supporting: Ministry of the Environment, Japan

ACAP (Asia Center for Air Pollution Research), Japan

Contact person: Toshimasa Ohara (NIES) *tohara@nies.go.jp*



The photographs were provided by the ACAP.

Second International Workshop on Emission Inventory in Asia

(March 11-12, 2011; Tsukuba, Japan)

1. Background and Aim

The development and improvement of emission inventories in Asia is an extremely important task for understanding of atmospheric environmental changes and solution to air pollution on Asian regional and global scales. The research activities for regional/country level emission inventories by Asian researchers are rapidly increasing. However, the collaborative research activities, such as research collaboration, exchange of information and harmonization of each inventory, are very insufficient so far. Given that, these activities need to be strengthened in the research communities related to the emission inventories for Asian regions. Furthermore, establishment of the intensive and interactive linkages among the research groups of forward/inversed modeling and GHG inventories is important.

Based on the above-mentioned background, the “Second International Workshop on Emission Inventory in Asia” aims at (i) understanding the current status of emission inventories in Asia, (ii) exchanging the experience of national/regional emission inventories in Asia, (iii) seeking an effective way to improve emission inventories, and (IV) discussing the future collaboration related to the Asian emission inventory activity.

2. Date: March 11 and 12, 2011

3. Venue: Tsukuba International Conference Center (EPOCHAL Tsukuba),
Conference room 406 (+ 405A)
(2-20-3, Takezono, Tsukuba, Ibaraki, 305-0032, Japan)
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4. Subjects:

- Long-term variation and future projections in Asian emissions
- Inverse modeling and the use of observations to quantify emissions
- Emission inventories at different scales in Asia
- Other topics related to emission inventory in Asian region

5. Presentation:

Invited talks (30 minutes)

6. Language: English

7. Expected number of participants: Around 100 participants

8. Organization:

Hosting: NIES (National Institute for Environmental Studies), Japan

Supporting: Ministry of the Environment, Japan

ACAP (Asia Center for Air Pollution Research), Japan

Science Advisory Committee:

Chairperson: Toshimasa Ohara (NIES, Japan)

Member:

Bhola R. Gurjar (IIT Roorkee, India)

Hajime Akimoto (ACAP, Japan)

Hezhong Tian (Beijing Normal University, China)

Itsushi Uno (Kyushu University, Japan)

Jung-Hun Woo (Konkuk University, Korea)

Savitri Garivait (King Mongkut's University of Technology Thonguri, Thailand)

Sergey A. Gromov (IGCE Roshydromet and RAS, Russia)

Toshihiko Masui (NIES, Japan)

Zifa Wang (IAP, CAS, China)

9. Program (tentative):

March 11 (Fri.) 13:30-17:30

13:30-13:45 Opening remarks

Hideaki Nakane (NIES, Japan)
Toshimasa Ohara (NIES, Japan)

13:45-14:30 Keynote speech

[Chairperson: Jung-Hun Woo]
Review of Asian emission inventories in global perspective
Hajime Akimoto (ACAP, Japan)

14:30-15:30 Long-term variation and future projections in Asian emissions (1)

[Chairperson: Sergey A. Gromov]

14:30-15:00 Improvements of anthropogenic emission inventory for China
Qiang Zhang (Tsinghua University, China)

15:00-15:30 Recent trends of air pollutants emissions in Asia:
Update of Regional emission inventory in Asia (REAS)
Jun-ichi Kurokawa (NIES, Japan)

15:30-16:00 Break

16:00-17:30 Long-term variation and future projections in Asian emissions (2)

[Chairperson: Zifa Wang]

16:00-16:30 Anthropogenic atmospheric emission inventories of hazardous trace elements in China
Hezhong Tian (Beijing Normal University, China)

16:30-17:00 Future emission scenarios for Asia considering constraints on radiative forcing of short lived climate forcers
Zbigniew J. Klimont (IIASA, Austria)

17:00-17:30 Low carbon scenarios and air pollution in Asia
Toshihiko Masui (NIES, Japan)

March 12 (Sat.) 9:00-12:30

9:00-10:30 Inverse modeling and the use of observations to quantify emissions (1)

[Chairperson: Savitri Garivait]

9:00- 9:30 Asian NO_x and NMVOC emission fluxes inferred from space :
lessons from the use of adjoint inverse analysis
Jenny Stavrakou (Belgian Institute for Space Aeronomy, Belgium)

9:30-10:00 Variational emission inversion at regional scales using the CMAQ
adjoint
Amir Hakami (Carleton University, Canada)

10:00-10:30 Evaluating uncertainties in Korean national emissions inventory
using CMAQ-HDDM simulations
Soontae Kim (Ajou University, Korea)

10:30-10:45 Analysis of recent trend of aerosol optical thickness in East Asia:
CMAQ and satellite retrieval
Itsushi Uno (RIAM, Kyushu University, Japan)

10:45-11:00 Break

11:00-12:30 Inverse modeling and the use of observations to quantify emissions (2)

[Chairperson: Bhola R. Gurjar]

11:00-11:30 Update regional emission inventory during the Beijing Olympics
with Kalman filter inverse modeling method
Zifa Wang (IAP, CAS, China)

11:30-12:00 A global high-resolution fossil fuel CO₂ emission inventory and its
application to emission study
Tomohiro Oda (NIES, Japan)

12:00-12:30 Biomass burning emissions in the Asia-Pacific region - Integrating
satellite based estimates with the bottom up emission inventories
Krishna P. Vadrevu (University of Maryland, College Park, USA)

12:30-13:30 Lunch

March 12 (Sat.) 13:30-17:35

13:30-15:30 Emission inventories at different scales in Asia (1)

[Chairperson: Hezhong Tian]

- 13:30-14:00 Development of multi-resolution modelling emission inventories in support of air quality modeling
Jung-Hun Woo (Konkuk University, Republic of Korea)
- 14:00-14:30 JATOP emission inventory for Japanese urban air quality model
Tazuko Morikawa (Japan Petroleum Energy Center, Japan)
- 14:30-15:00 Gaseous and particulate emissions in Indian megacities
Bhola R. Gurjar (IIT Roorkee, India)
- 15:00-15:30 Emission inventory: an overview for Hochiminh city, Vietnam
Tuan D. Nguyen (Hochiminh City College for Natural Resources and Environment, Vietnam)

15:30-16:00 Break

16:00-17:30 Emission inventories at different scales in Asia (2)

[Chairperson: Toshihiko Masui]

- 16:00-16:30 Air Pollutants and Greenhouse Gases Emission Inventory Activities in Thailand
Savitri Garivait (King Mongkut's University of Technology Thonguri, Thailand)
- 16:30-17:00 Using proxy information of different scales to prepare an anthropogenic emission inventory over Asian Russia
Sergey A. Gromov (IGCE Roshydromet and RAS, Russia)
- 17:00-17:30 Emissions inventory studies in Turkey
Alper Unal (Istanbul Technical University, Turkey)

17:30-17:35 Closing remarks

Toshimasa Ohara (NIES, Japan)

10. Poster presentation:

We welcome to your poster presentation. For the poster presentation, the poster board (w: 90 cm; h: 210cm or w: 210 cm; h: 90 cm) will be prepared in the 405A room next to conference room 406. If you want to make a poster presentation but has not yet subscribed to the secretariat, please contact to the secretariat as early as possible.

11. Secretariat of the workshop:

Toshimasa Ohara, Dr.

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