



TG3: The GEO Carbon and GHG Initiative

Toward policy-relevant global carbon cycle observation and analysis

Day 1. Oct 24, 14:00-17:10

Day 2. Oct 25, 10:00-17:20

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The 11th GEOSS Asia Pacific Symposium, 24-26 October 2018, Kyoto, Japan

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Previous GHG and C-Cycle Related Activities in the GEOSS Asia-Pacific Symposium

2007 (1st Tokyo)

Ecosystem Remote Sensing & C Flux Monitoring

2008-2009 (2nd Tokyo, 3rd Kyoto)

Monitoring and Predicting Climate Change (IPCC)

2010-2014 (4th Bali, 5th & 7th Tokyo, 6th Ahmedabad)

*Forest C Tracking Initiative ~ Global Forest
Observations Initiative* (REDD+, LULUCF)

2015 (8th Beijing)

Global C Monitoring (toward GEOSS next 10-year)

2017~2018 (9th Tokyo, 10th Hanoi, 11th Kyoto)

The GEO Carbon and GHG Initiative

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Output of TG3 → “Kyoto Statement 2018” to be adopted in Oct. 26

Tokyo Statement (Jan. 13, 2017):

The GEO Carbon and GHG Initiative will facilitate cooperation to develop a coordinated system of observations and evaluate changes in the carbon cycle and in greenhouse gas emissions, as they relate to human activities and climate change, in order to provide decision makers with timely and reliable policy-relevant information. In particular, for AP region it will advocate the use of carbon cycle and GHG related observations, from both *in-situ* (including air and shipborne) and space-based observations, particularly in the frame of UNFCCC and IPCC for national greenhouse gas inventory reporting; will emphasize the importance of providing guidance to users on how to use Earth observation data by better explaining bias and uncertainties; will promote data sharing and awareness of data availability; and will identify new scientific challenges regarding climate change research to be addressed in the future.

https://www.restec.or.jp/geoss_ap9/_public/Tokyo_Statement_2017_Final.pdf

Hanoi Statement (Sep. 20, 2017):

The GEO Carbon and GHG initiative (GEO-C)(Task 3) is supporting the implementation of the Paris Agreement. The Asia-Oceania Earth observation community is increasingly contributing to GEO-C and a formal coordination at regional level. In particular, we acknowledge the significant progress made in Vietnam with regard to observations of the carbon cycle and GHG emissions and mitigation. GEO-C also recognizes the important role of global efforts such as the Integrated Global Greenhouse Gas Information System (IG3IS) and the Global Carbon Project (GCP) considering the AO region. GEO-C will further work at regional level to address gaps and challenges such as improving dialogue between national GHG inventory agencies and the EO communities, the integration between different approaches and the need for training programs in the region.

<https://vnsc.org.vn/geoss-ap10/data/Hanoi%20Statement.pdf>

Presentation: 15-minute

Q&A: 5-minute

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to be referred to in the summary session (Day 3)
and to be uploaded on the symposium web page
after the symposium.

Thank you!