

# WG3: The GEO Carbon and GHG Initiative

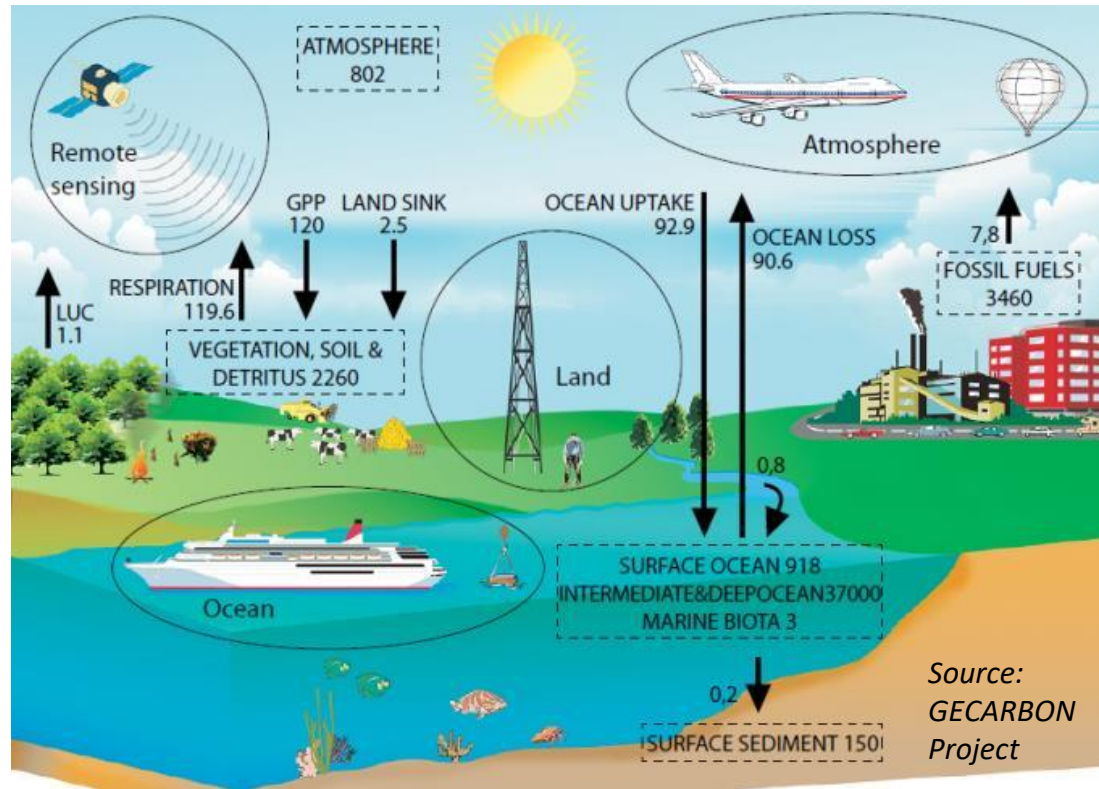
Co-Chairs: Pham Van CU, Nobuko SAIGUSA, Antonio BOMBELLI

## The GEO Carbon and GHG Initiative

*Toward policy-relevant global carbon cycle observation and analysis*



**GEO**  
CARBON AND  
GHG INITIATIVE



*Original slide:  
Bombelli et al.,  
2015 The 8th  
GEOSS AP  
Symposium, Beijing*

*Source:  
GECARBON  
Project*

### UNFCCC Paris Agreement <Article 7.7>

c) Strengthening scientific knowledge on climate, including research, systematic observation of the climate system and early warning systems, in a manner that informs climate services and supports decision-making.

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## Previous *WG Activities* in the GEOSS A-P Symposiums

2007 (1<sup>st</sup> Tokyo)

*Ecosystem Remote Sensing & C Flux Monitoring*

2008~2009 (2<sup>nd</sup> Tokyo, 3<sup>rd</sup> Kyoto)

*Monitoring and Predicting Climate Change* (IPCC)

2010~2014 (4<sup>th</sup> Bali, 5<sup>th</sup> & 7<sup>th</sup> Tokyo, 6<sup>th</sup> Ahmedabad)

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

2015 (8<sup>th</sup> Beijing)

*Global C Monitoring* (toward GEOSS next 10-year)

2017 (9<sup>th</sup> Tokyo)

*The GEO Carbon and GHG Initiative*

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## Agenda (morning):

1. Opening GEO Carbon and GHG Initiative Session

**Antonio BOMBELLI**

**Hiroyuki MURAOKA**

2. Initiative Task 2 – Data Access and Availability: Domain-Overarching Carbon Cycle and GHGs Monitoring System

**Mai Van TRINH**

**Vu Tan PHUONG**

**Osamu OCHIAI**

**Nobuko SAIGUSA et al.**

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## Agenda (afternoon):

### 3. Initiative Task 4 – Budget Calculations and Breakdown Across Scales to Support Policy Implementation [Part 1]

**Oksana TARASOVA \*** (\*through the internet)

**Josep (Pep) CANADELL \***

**Wataru TAKEUCHI**

**Nguyen Khac HIEU**

### 4. Initiative Task 4 – Budget Calculations and Breakdown Across Scales to Support Policy Implementation [Part 2]

**André OBREGÓN**

**Dong-Gill KIM**

**Pham Van CU**

**Tsuneo MATSUNAGA**

(Discussions from the users' perspective)

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## Agenda (afternoon):

### 5. Closing the GEO Carbon and GHG Initiative Session

Future Plan and Session Summary

Inputs to the “Hanoi Statement” to be adopted in Sep. 20

### Excerpt from the “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.

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**Presentation: 15-minute**

**Q&A: 5-minute**

Please kindly share your presentation slides **which can be open to the public** after the symposium with the co-chairs **and the symposium secretariat** to be referred to in the WG 3 summary (Day 3) and to be uploaded on the symposium web page.

Thank you!