

Participation to the meeting of Acid Rain 2011 at Beijing

The 8th International Conference on Acid Deposition ACID RAIN 2011



8.Beijing China 2011

- 1.Columbus **USA** 1975 2.Sandefjord **Norway** 1980 3.Muskoka **Canada** 1985
- 4.Glasgow **UK** 1990 5.Göteborg **Sweden** 1995 6.Tsukuba **Japan** 2000
- 7.Prague **Czech Rep** 2005

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1. Conference center and “atmosphere”
2. Visit to The center of Eco-Environment,
Chinese Academy of Science
(OG, Dr. Qu Laiye : 曲 来葉 博士)
3. Visit to the study site of Stalinization soil
by Prof. Shi Fiche (石 福臣 教授)
4. The Peking Office of Hokusai
5. Foods



16-18, June Beijing, China

The 8th International Conference on Acid Deposition

ACID RAIN·2011

June 16-18, Beijing, China

Organized by:



Chinese Academy of Sciences

Co-Organized by:



National Natural Science Foundation of China

Hosted by:



Institute of Atmospheric Physics



State Key Laboratory of Atmospheric Boundary Layer Physics and Atmospheric Chemistry

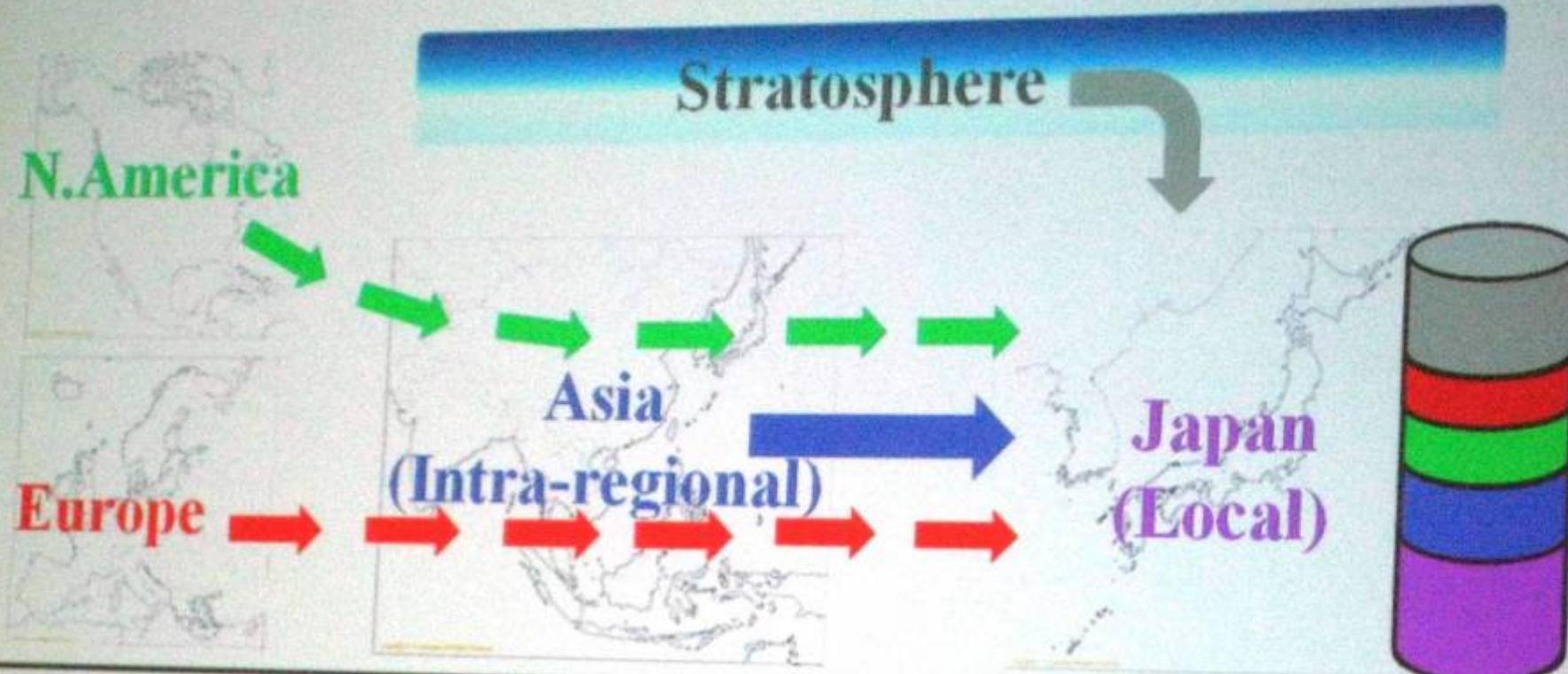


Chinese Research Academy of Environmental Sciences



In front of the conference center quite

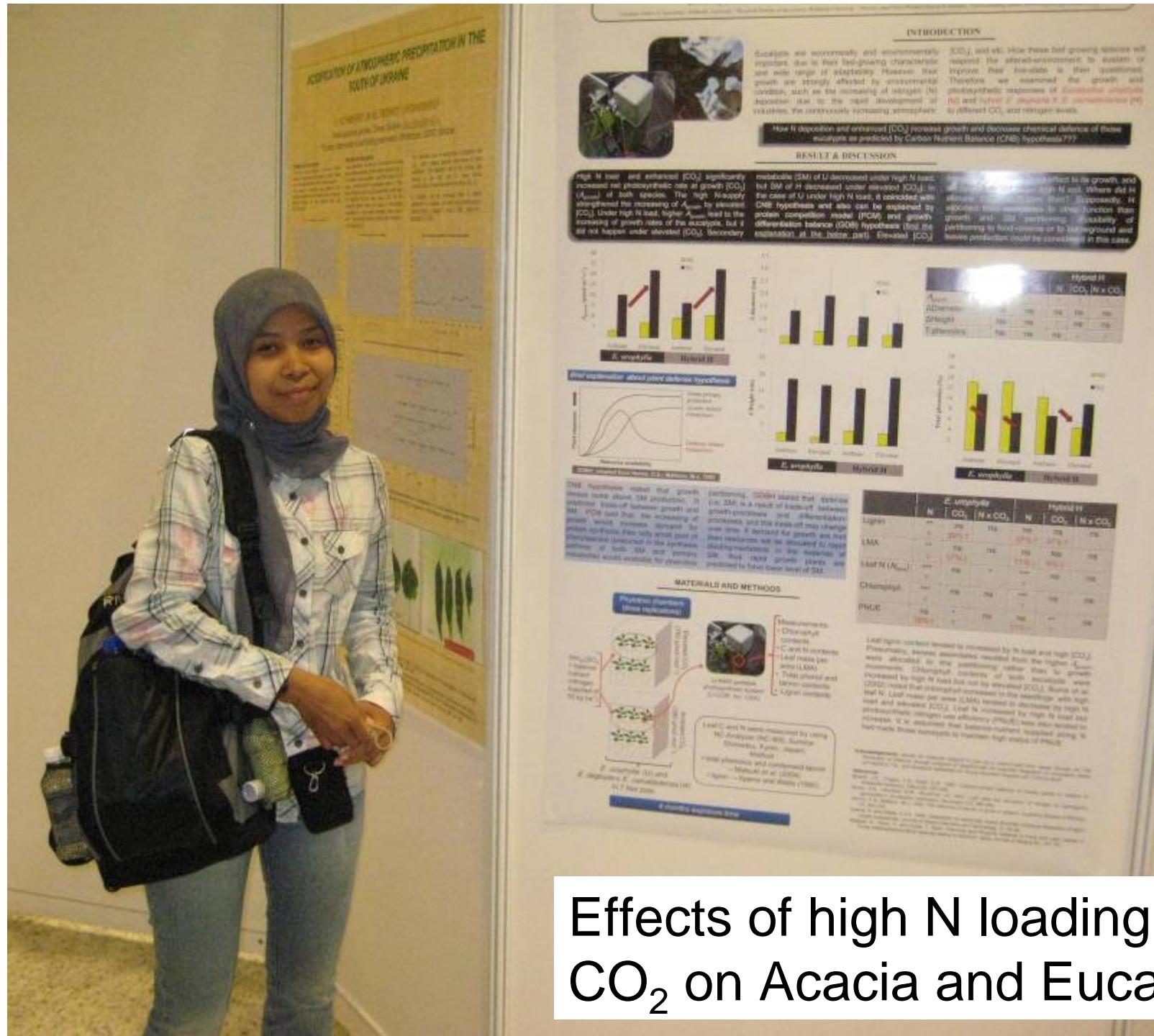
Contribution of various source regions on O₃ in Japan



How much does Japan receive O₃ from each source region?

→ Source-Receptor (S-R) relationship

Estimated by using numerical model



Dr. Yamashita

Prof. K. Satake

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Serpentine regions frequently suffer from erosion and landslides.

Hybrid larch F_1
(*Larix gmelini* var. *japonica* \times *L. kaempferi*)

Important species not only for timber production but also for afforestation in severe conditions.

How about the ability of Hybrid larch F_1 as afforestation material in serpentine soil?

Increase of N deposition

Although N usually acts as fertilizer, the main factor for tree growth in serpentine soil may not be N deficiency.

Does increase of N deposition enhance the growth of hybrid larch F_1 grown on serpentine soil?

2. Materials and Methods

Experimental site
Teshio Exp. Forest (Hokkaido Univ.)

Experimental Period
May 2007 to September 2009

Plant material
One-year-old Hybrid larch F_1

Soil conditions
Serpentine soil (S)
Brown forest soil (B)

N treatment
0 (-N) and 47 kg N ha⁻¹ year⁻¹ (+N)
N load with $(\text{NH}_4)_2\text{SO}_4$ was started from May 2008

Measurements

Photosynthetic traits (July 2009)

- Analysis of A-Ci curve
- Light-saturated net photosynthetic rate (A_{sat})
- Stomatal limitation of photosynthesis (V_{cmax})
- Maximum rate of electron transport (J_{max})

Needle traits

- Leaf mass per area (LMA, g m⁻²)
- Needle element contents (N, P, K, Mg, Ca, Ni)

Height and diameter growth of stem

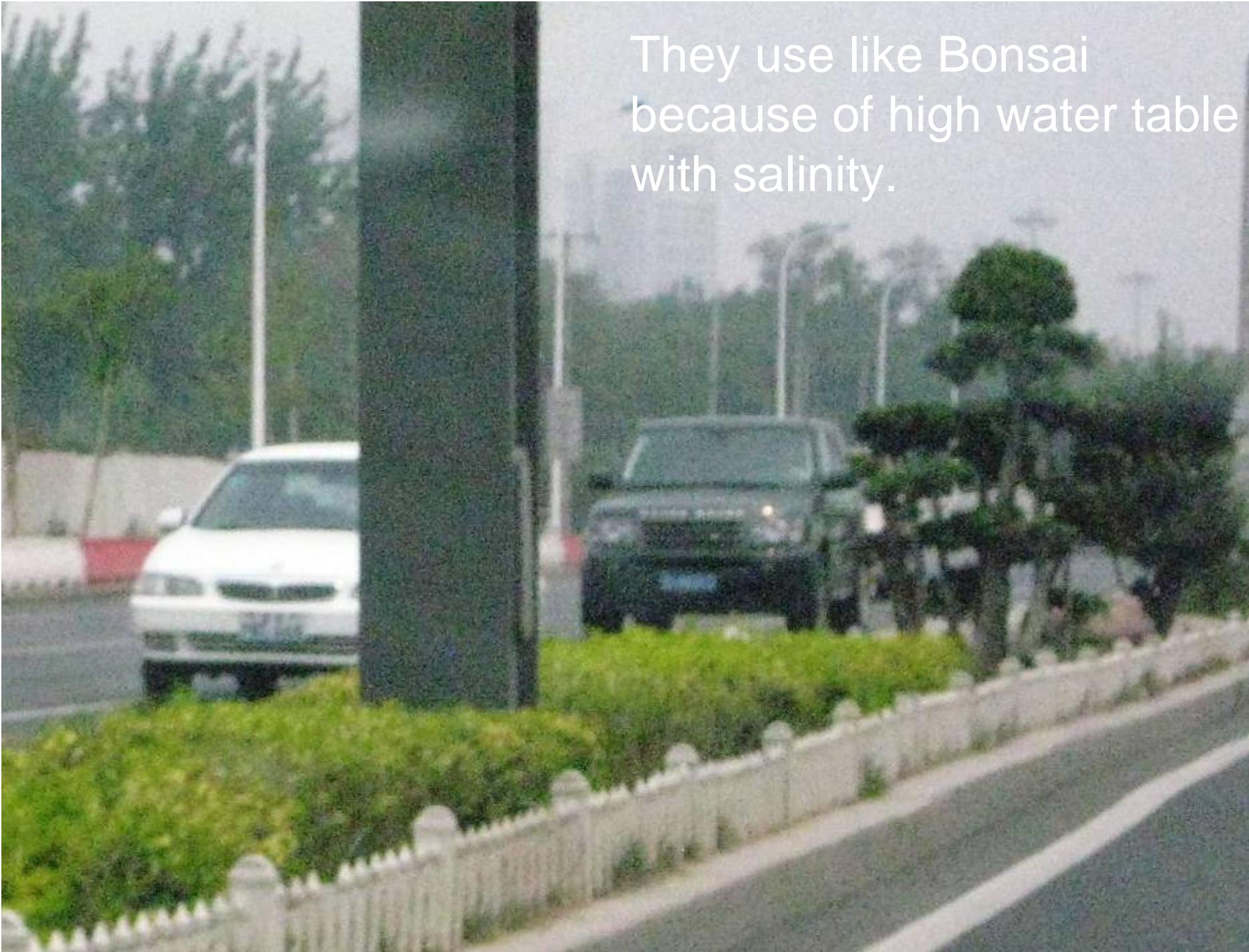
Dry mass of each organ (September 2009)

Teshio River
Beijing
(N45, E136)



The Center for Eco-Environment, Chinese Academy of Science (CAS)

Dr. Qu Laiye
Associate professor,
She got several prizes:
1) 1st CSC scholarship
(Total 96 in the world)
2) Sapporo Agriculture
scholarship
3) IUFRO best
presentation at Au.

A photograph showing a road with a white line, a concrete barrier, and some greenery. In the background, there are several tall, thin trees and a white car parked on the left side of the road.

They use like Bonsai
because of high water table
with salinity.



Tamarix chinensis
ギヨリュウ・御柳
楊貴妃の愛した樹木



塩性土壤の緑化に
注目！



With vice director
Mr. Park



http://hokudai.cn/japanese/news_y83.html



Famous Chinese foods
With Miso soup of 吉野屋 !