

A Perspective of Agriculture Sector Involvement in Asian GHG Inventory beyond 2013

Toshiaki Ohkura

Natural Resources Inventory Center

National Institute for Agro-Environmental Sciences



Soil Carbon in Arable Land

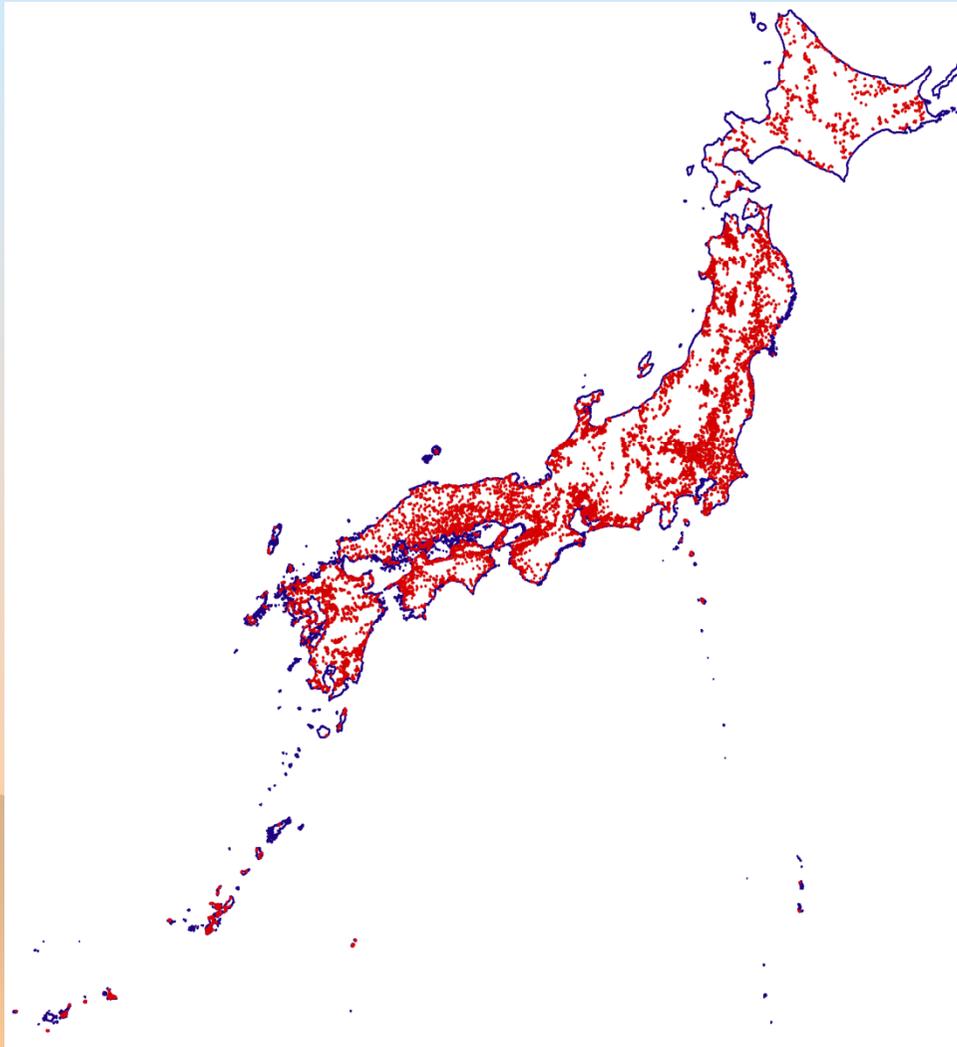
❁ Lesson from National Soil Monitoring Project in Japan

- Soil Fertility Improvement Act
- Organic Agriculture Act
- Sustainable Agriculture Act

Soil Carbon as an indicator of agricultural land management (OECD)



Soil Monitoring (Longitudinal)



About 20,000 sites

1st to 4th period survey

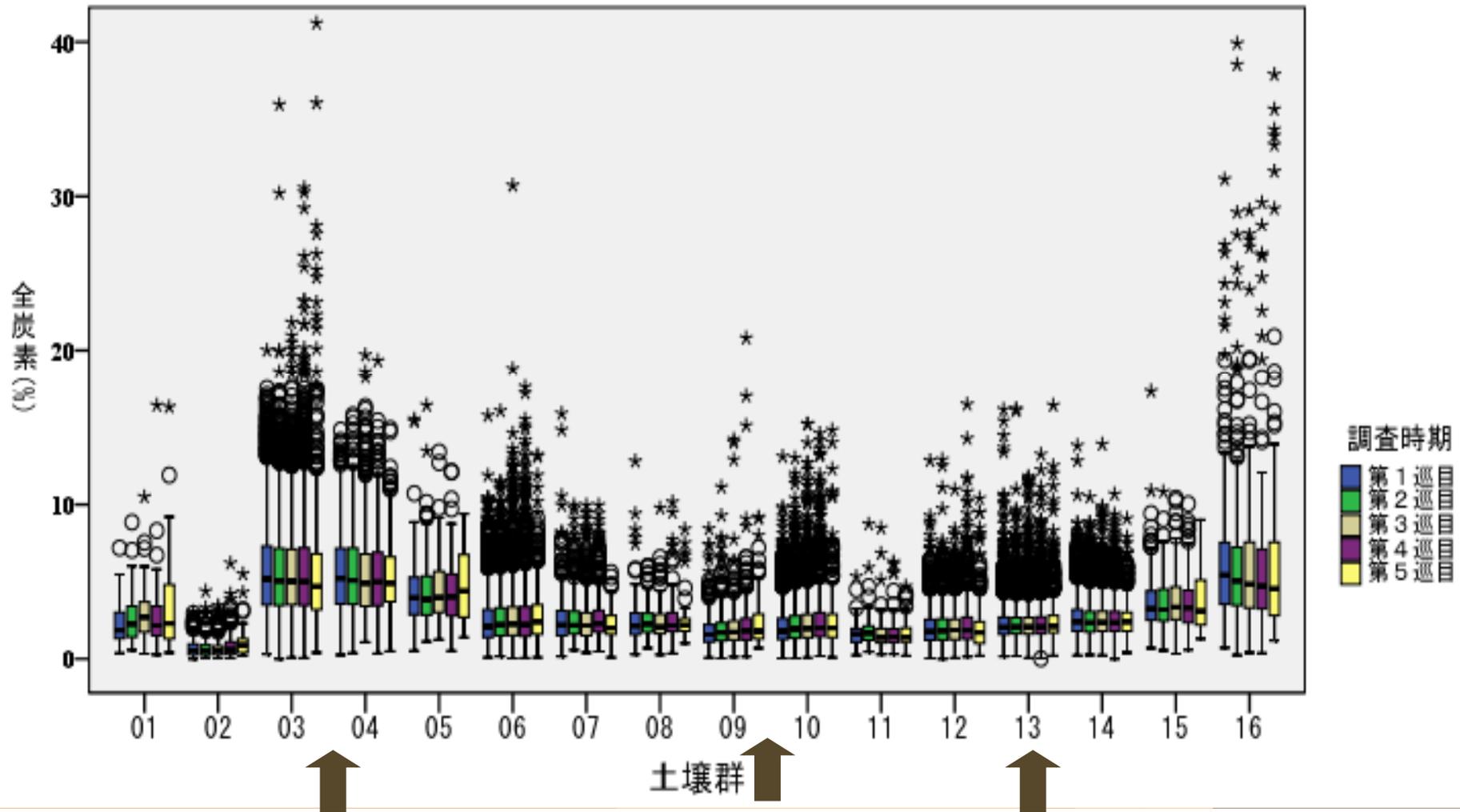
About 5,000 sites

5th period survey

Total Agricultural Land Area
is about 5 million ha



Variations in SC over 20years



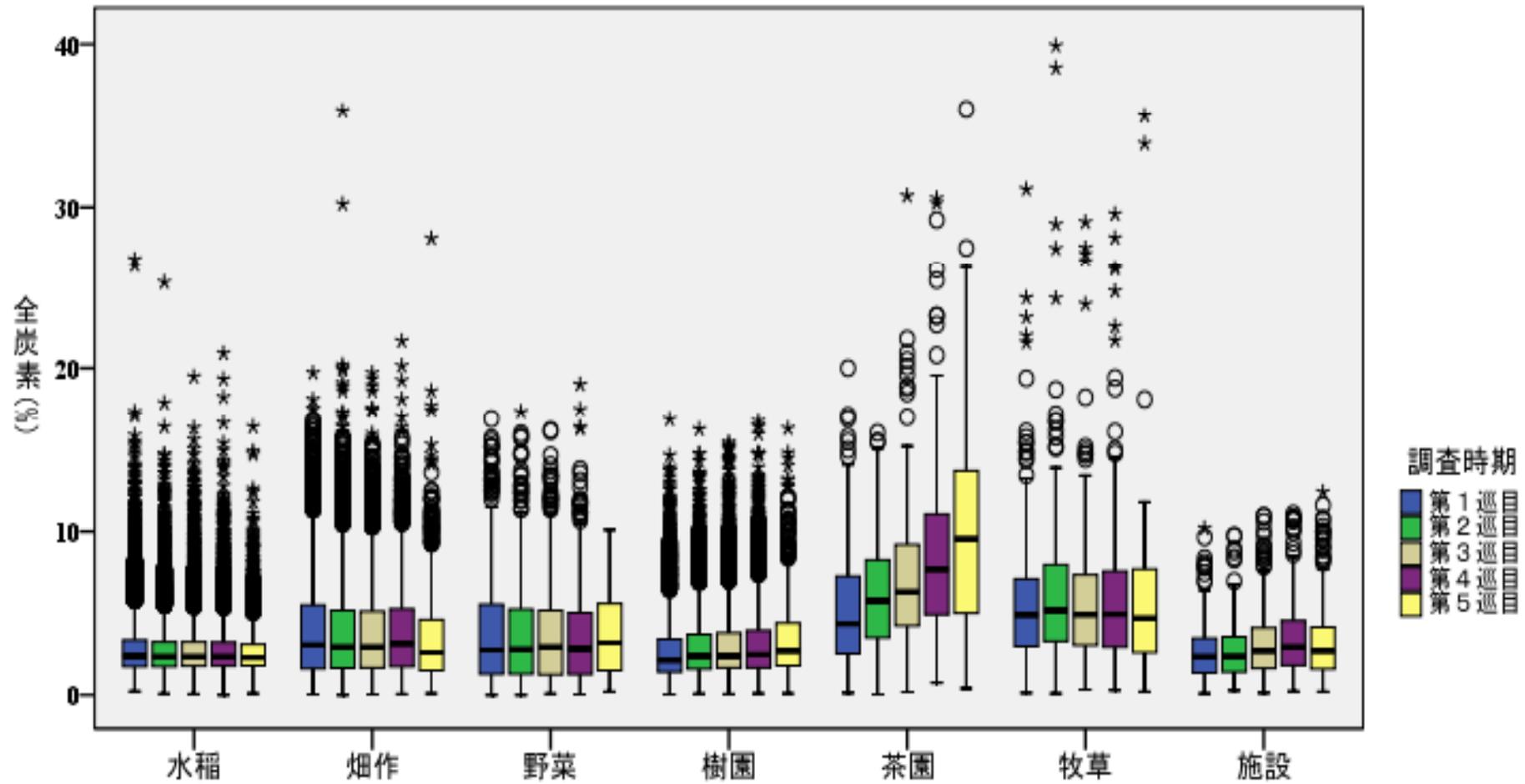
Andisols
(upland)

Ultisols like
upland

Major
Paddy soils



Same Data Analysis by Crop Type



Paddy
Rice

Cereals
upland

Vegeta
bles

Orchard

Green
Tea

Pasture

Green
house



Facts and Fallibilism in Science

- ❁ Setting Base Year (ex. 1990)
- ❁ Justification of Base Period (ex. 20years)
- ❁ Inventory Status and Data Availability in Asian Countries
- ❁ Public Consensus for Accelerating Soil Carbon Sequestration in Arable land regarding Multifunctionality of Agriculture

