Tripartite Director General Meeting on DSS 12-13, March, 2007



Activities on Addressing DSS in JAPAN

Masako OGAWA

Global Environment Department Ministry of the Environment, Japan

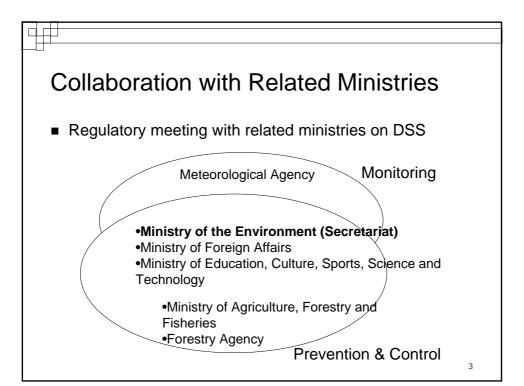


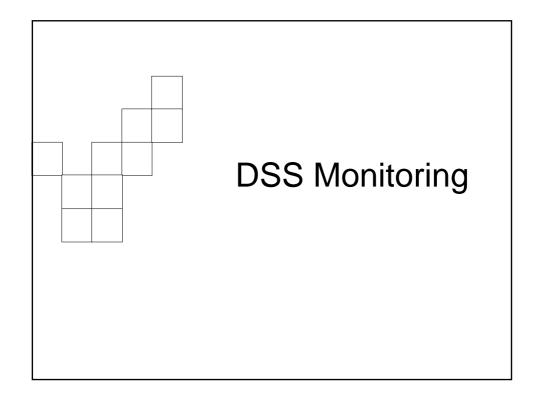
Contents

DSS Monitoring

- Investigation on DSS (physical & chemical characteristics)
- Establishment of DSS Monitoring Network
- International Cooperation

Prevention and Control of DSS





Investigation for physical and chemical characteristics of DSS

- Conducted by MOE, cooperated with NIES and local governments, Started from 2002
 - □Simultaneous aerosol collection during a DSS event
 - □Examining particle distribution of DSS aerosol
 - □Analyzing chemical components (ions, metals, POPs)
- Committee on DSS Issues is Developing an interim report

F

Establishment of DSS Monitoring Network

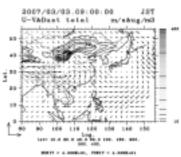
- DSS monitoring network in Japan Sampling Sites>
 - □ LIDAR (MOE&NIES: 9 sites)
 - ☐ SPM* (MOE:1,917 sites)
 - □ Visibility (JMA: 103 sites)
 - *Suspended Particle Matters under 10 microns
- Providing DSS information services



Superiors of LIDAR

Important data for developing simulation models

 Enable to observe // vertical profile of dust cloud



CFORCE: Chemical weather FORecasting System [http://www-cfors.nies.go.jp/~cfors/index-j.html]

 Enable to differ dust from air pollutants forming fine particles (sulfate etc.)

Indicator	DSS by LIDAR	Non-DSS by LIDAR
DSS by visibility	DSS on ground level	Can be air pollutants
Non- DSS by visibility	DSS passing above	Non DSS

7

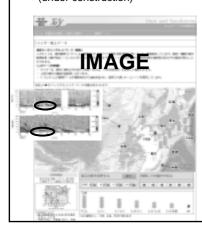
DSS information services (MOE)

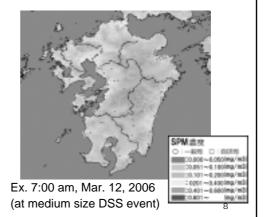
Real-time data transmission

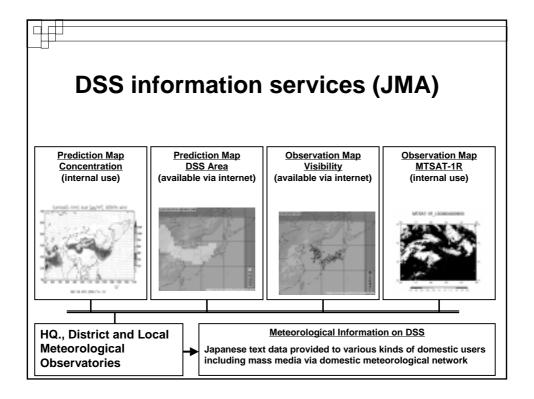
■ LIDAR data

■ SPM data

[http://www.env.go.jp/earth/dss/index.html] [http://soramame.taiki.go.jp/] (under construction)







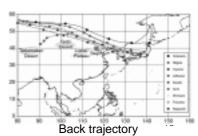
International Cooperation

- Promoting international cooperation for establishing DSS monitoring NW in Northeast Asia
 - □ Active participation in ADB-GEF project

Ex. First Expert Meeting on Design of Regional Network (Aug.2005, Tsukuba)

□ Joint research

Ex. NIES &Sino-Japan Friendship Center



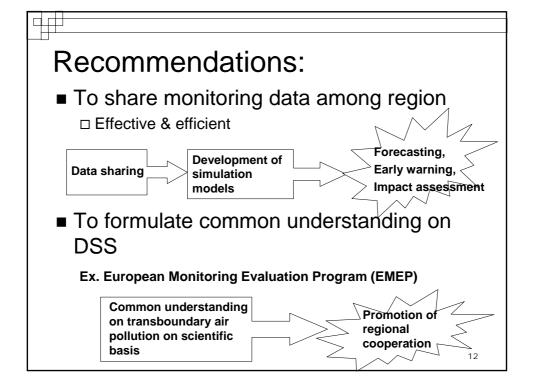
Bilateral Cooperation

- In China
 - □ Providing monitoring equipments: LIDAR for 7 sites, Visibility meter for 16 sites
 - ☐ Training WS coorganized by MOE and SEPA

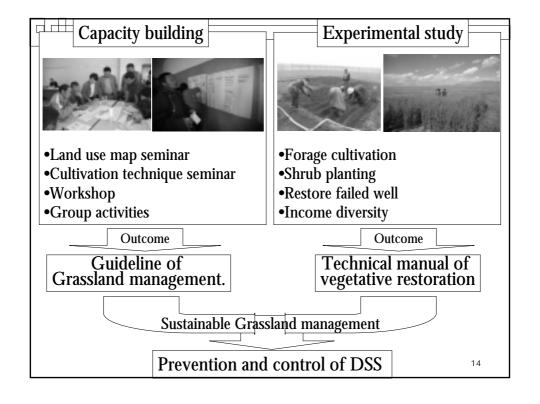
Sites were selected according to "Master Plan" developed by ADB-GEF project

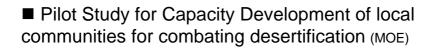
- In Mongolia
 - □ Providing monitoring equipments: LIDAR for 3 sites, PM10/TSP monitor & Visibility meter for 4 sites
 - ☐ Technical cooperation for capacity building
 - □ Data will be provided through internet











■In Mongolia

■Period: 2004 - 2007

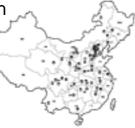
-Workshop for local stakeholders

-Installing pipelines / Restoring wells /Setting zones of non-stock farming etc

 Several projects of afforestation by private sectors, NGOs

Ex. Japan-China Green Fund (Obuchi Fund)

56 projects in 2006 (0.5 billion yen)



15

