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**Implementation of Male' Declaration on
Control and Prevention of Air Pollution
and its Likely Transboundary
Effects for South Asia**

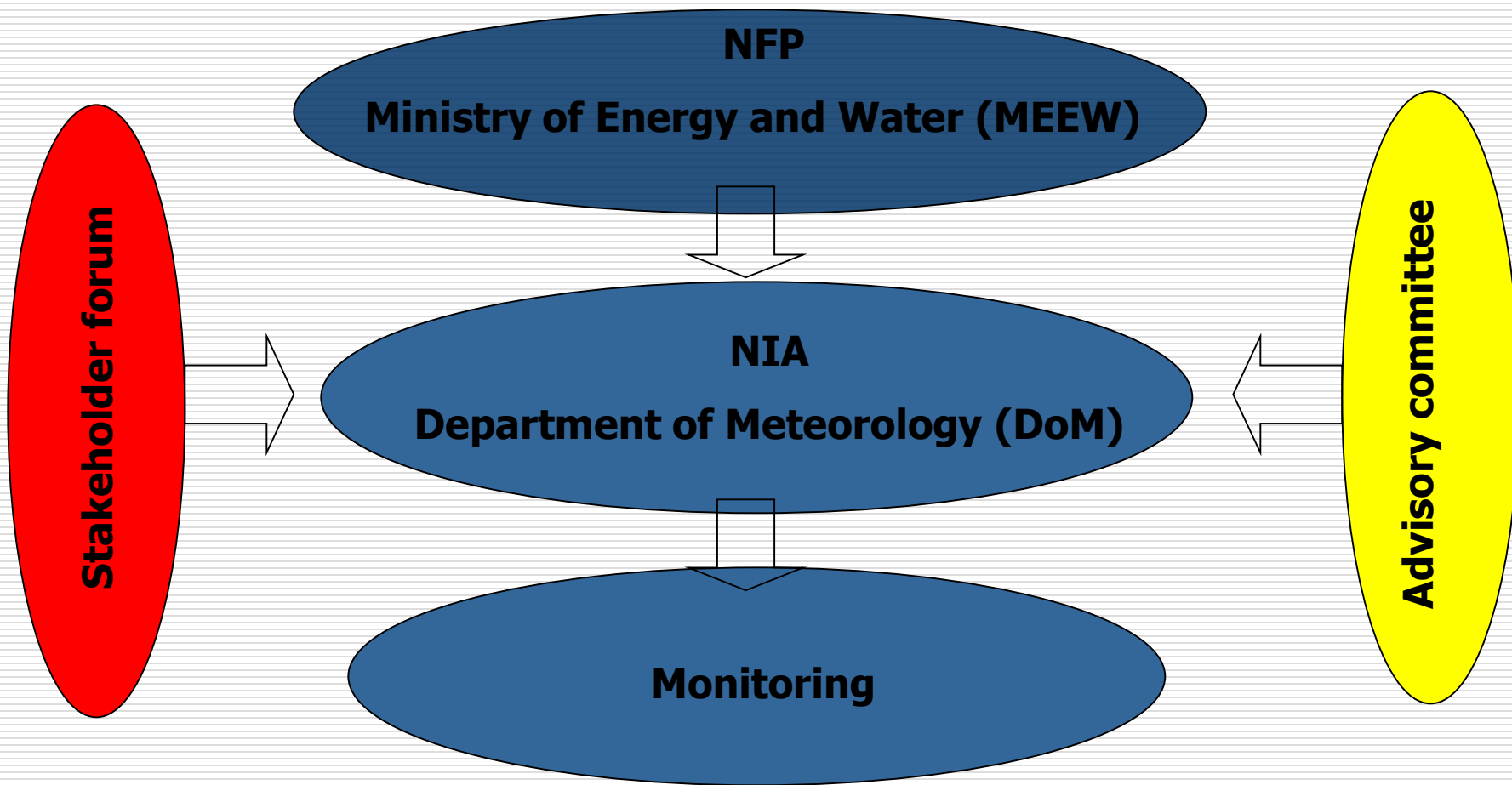
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**02 – 03 October 2007
9th Network Meeting - Maldives**

Department of Meteorology
Maldives



Institutional Arrangements



Air Pollution Monitoring

is established under :-

1. Atmospheric Brown Cloud (ABC) Project
2. Male' Declaration on Control and Prevention of Air

Pollution

▶ Instruments of the ABC are installed at Maldives Climate Observatory – Hanimaadhoo (MCO-H)

▶ Instruments of the Male' Declaration are not operational except Passive Sampler, which is installed at Hanimaadhoo Airport in 2003 and is operational without any break

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Hanimaadhoo Island



MCO Super Observatory



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MCO-H





W. Collector & P. Sampler



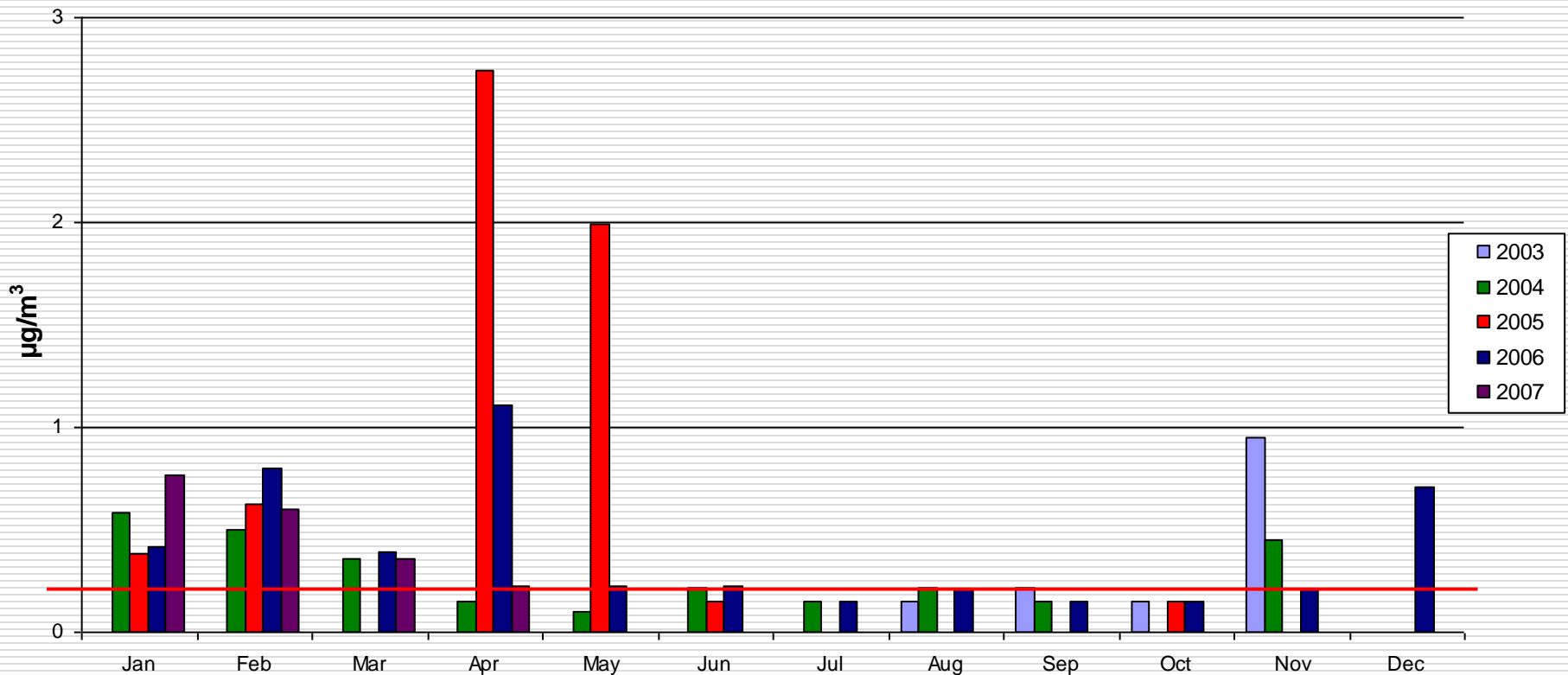
- ▶ Wet only collector is operational Filters and samples are sent to MISU,
- ▶ It is using for ABC or Male' Declaration ? Where does DATA goes?



- ▶ In Addition of NO_2 and SO_2 , O_3 filters are started to expose in May 2007
- ▶ Exposed filters are send to IVL

Monthly average concentration of SO₂ in µg/m³

Hanimaadhoo Island (6.7N, 73E)

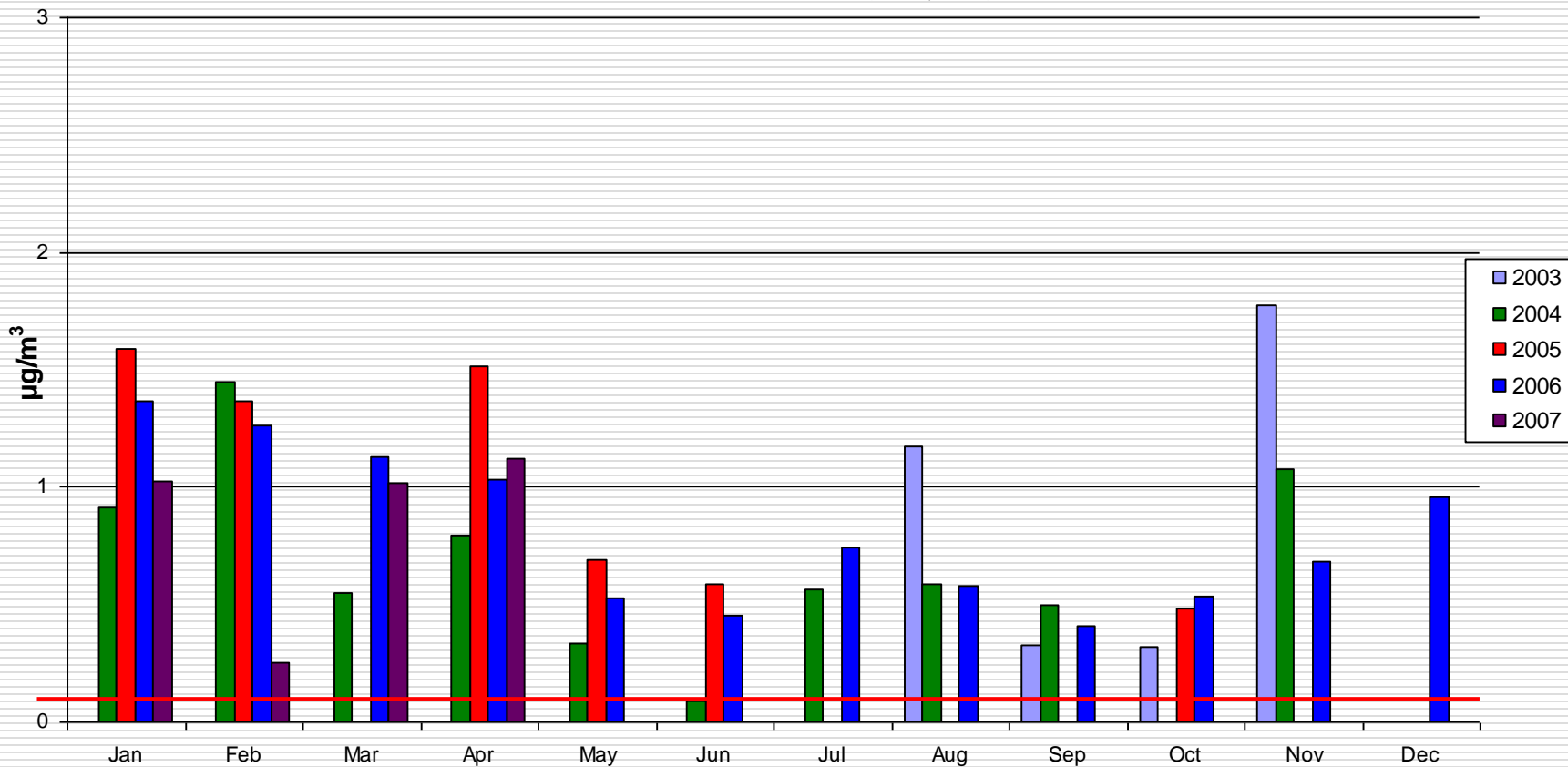




NO₂

Monthly average concentration of NO₂ in $\mu\text{g}/\text{m}^3$

Hanimaadhoo Island (6.7N, 73E)





Pollution varies

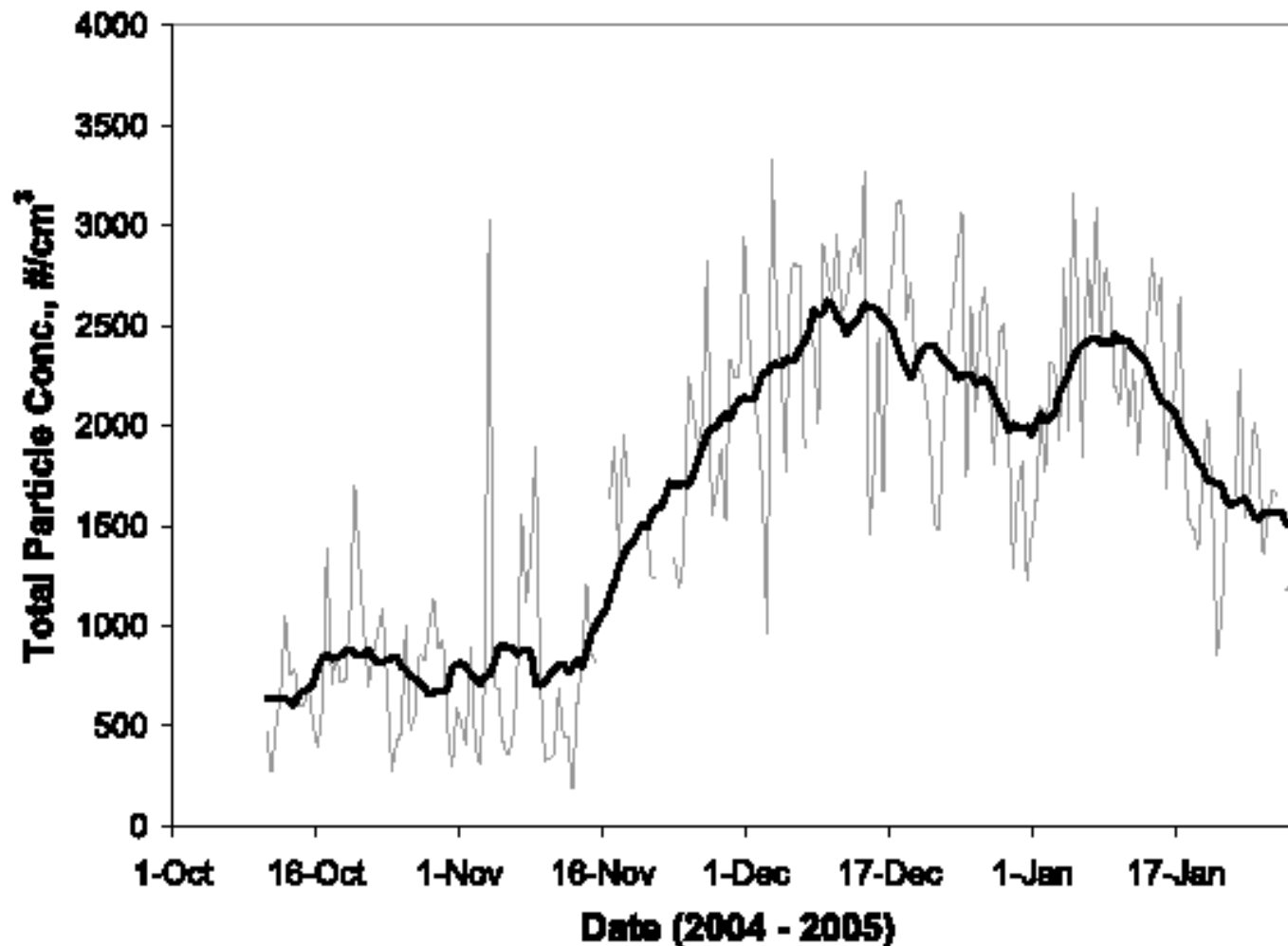


Figure 2. Total aerosol concentration ($0.008 \mu\text{m} > D > 5 \mu\text{m}$) at Maldives Climate Observatory at Hanimaadhoo (MCOH) from October 2004 through January 2005.



▶ Recently started exposing O_3 and received June 2007 DATA , which was $5 \mu\text{g}/\text{m}^3$

For Effective Awareness:-

- ▶ It is required Pollution DATA and its impact to convince the public
- ▶ It is Required Technical people



Constraints

- ❑ Lack of Human resources in the field of Atmospheric Chemistry
- ❑ No arrangement for in-house repair and maintenance of Equipments used for Air Pollution Monitoring is made due to lack specialized training in the field
- ❑ Availability of technical and financial support to conduct local studies on air pollution

Future Plans

- ❑ Include awareness on air pollution in the programme conducted by DoM for school children and general public
- ❑ Construct Air Pollution Monitoring instrumentation Tower and a new building at Gan in the next year to establish a fully functional ABC station in the Island, **if funds could be procured**
- ❑ Three staff of DoM to be trained on Atmospheric Chemistry, one post graduate level and two graduate level in the next 4 years **if financial support could be raised**



Thank You