

Asia-Pacific Mercury Monitoring Workshop

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U.S. EPA
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Overview

- Context
 - Highlights of the September, 2012 Atmospheric Mercury Monitoring Workshop
 - New development: Minamata Convention
- Review workshop agenda
 - Objectives and outcomes
 - Activities over the next three days

2012 Atmospheric Mercury Monitoring Workshop

- Organized by Taiwan EPA, National Central University, U.S. EPA, and NADP, September 2012, Taipei, Taiwan
- Science and policy experts from Canada, Indonesia, Japan, Korea, Taiwan, Thailand, and the U.S.
- Exchanged information on programs in North America and Asia that monitor atmospheric mercury concentrations, wet/dry mercury deposition, and related atmospheric pollutants



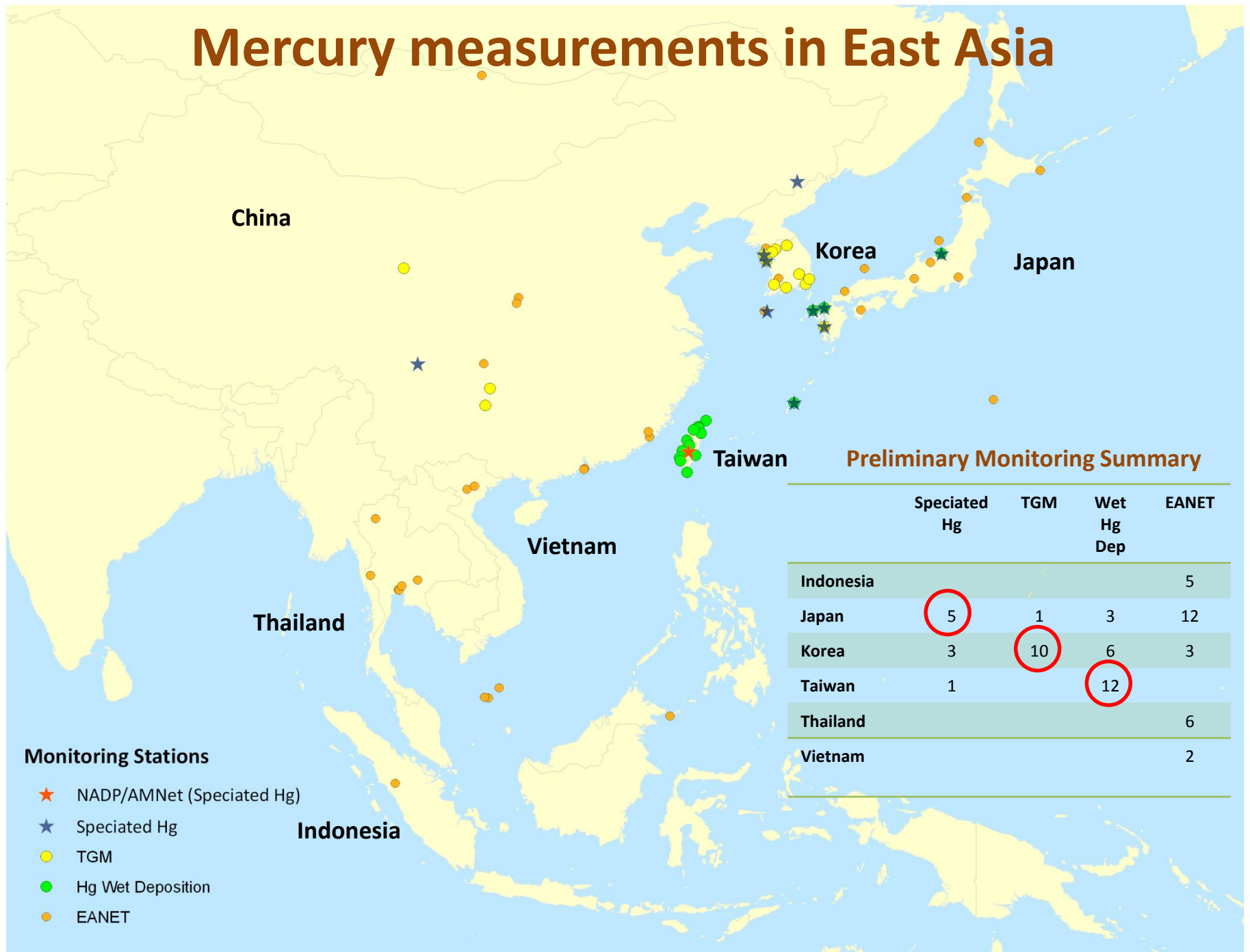
Key Findings and Needs

1. Range of mercury monitoring capabilities across the Asia-Pacific region
2. Many scientific papers published; but limited data available
 - No regional database of measurements
3. Improve availability of accurate and comparable mercury monitoring data for analysis and modeling of Trans-Pacific atmospheric mercury transport
4. Improve coordination of monitoring activities in the region
5. Assist countries with limited mercury monitoring experience (build capacity)

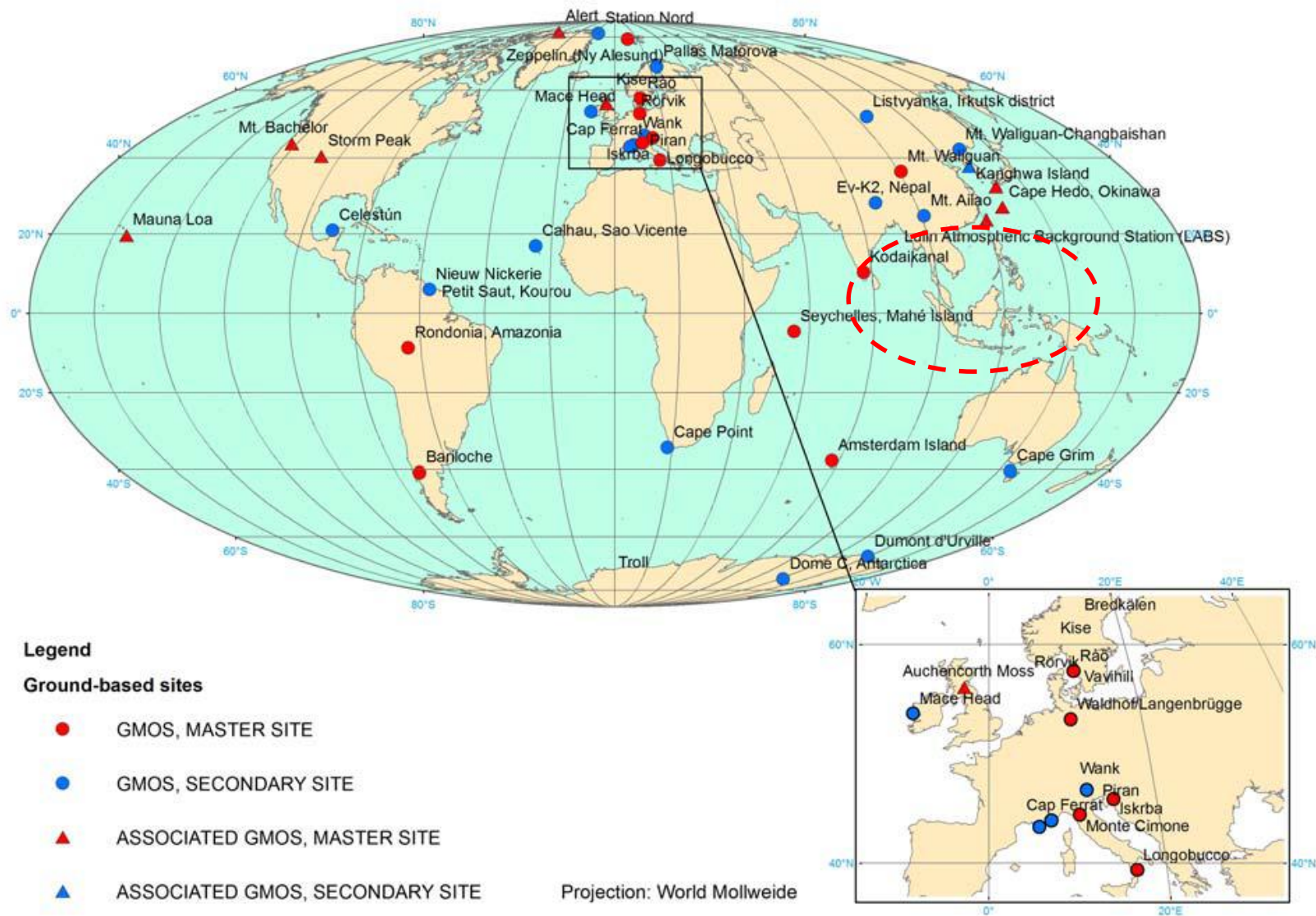
Opportunities for Asia-Pacific cooperation



Mercury measurements in East Asia



Global Mercury Observation System – Ground Based Sites



Policy Context: Minamata Convention

- Governments agreed to a global, legally-binding treaty to prevent emissions and releases
- Provides controls and reductions across a range of products, processes and industries where mercury is used, released or emitted
- Article 20 – Research, Development and Monitoring
 - Cooperate to develop and improve capabilities to assess the impact of mercury on human health and the environment
 - Harmonize methods; build on existing monitoring networks and research programs
- Article 23 – Effectiveness Evaluation
 - Evaluate the Convention's effectiveness 6 years after treaty goes into force
 - Comparable monitoring data on the presence and movement of mercury in the environment

January 2013



Objectives of the 2013 Asia-Pacific Mercury Monitoring Workshop

1. Share latest information from each partner agency
2. Review proposal reach some agreement on monitoring objectives and major design elements for an operating (pilot) network for the region
3. Devise a preliminary plan for deploying wet deposition collectors in Southeast Asia
4. Establish a steering committee and plan for next steps and next meeting

Roadmap of the 2013 Asia-Pacific Mercury Monitoring Workshop

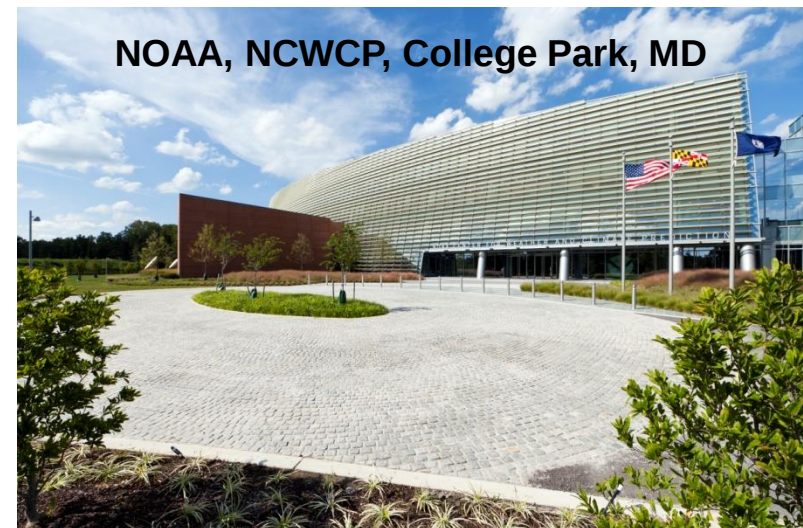
Day 1 – Wednesday, July 17, 2013

1. Vision for an Asia-Pacific mercury monitoring network
2. North American experience and perspectives on monitoring
3. Update on mercury and related monitoring in Asia
4. Review and (round robin) discussion of vision and initial proposal for collaborative mercury monitoring in the region

Roadmap of the 2013 Asia-Pacific Mercury Monitoring Workshop

Day 2 – Thursday, July 18, 2013

1. Field trip (weather permitting) to the NADP monitoring station at Beltsville MD; overview and training on Hg wet deposition and speciated atmospheric Hg measurements
2. Working lunch at NOAA's Center for Weather and Climate Prediction, College Park, MD; presentation on the uses of atmospheric Hg data
3. Afternoon discussion on how an Asia-Pacific network would operate
 - Overview of monitoring proposal; review and discussion of specific points, with an objective of reaching group agreement



Roadmap of the 2013 Asia-Pacific Mercury Monitoring Workshop

Day 3 – Friday, July 19, 2013

1. Continued discussion at EPA offices -- How would an Asia-Pacific Network operate?
2. Summary and next steps
3. Review of action items and commitments

Welcome to Washington D.C.!

