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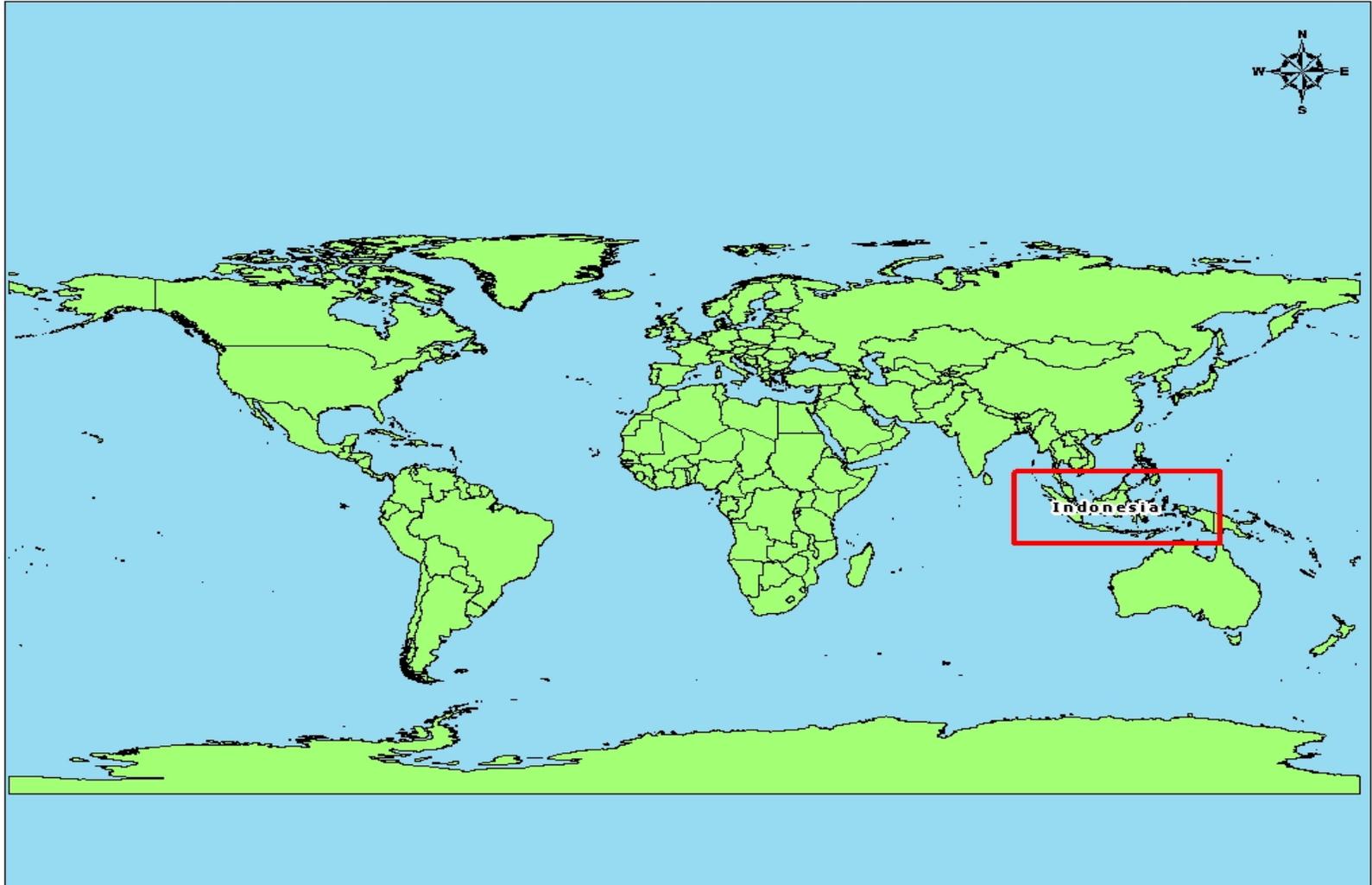
Biological Threats and Biosecurity Efforts in Indonesia

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World Map



Map of Indonesia



I. Introduction (1)

Geography, climate and population

- ★ Indonesia consists of 3,000 big and 13,677 small islands**
- ★ The location is between two continents**
- ★ The total area is 5,193,250 km²
(39% land and 61% sea territory)**
- ★ It has dry and rainy seasons**
- ★ The range of temperature is from 20° C to 30°C and the humidity is from 65% to 90%**

I. Introduction (2)

Geography, climate and population

- ★ Indonesia is divided into 31 Provinces, 349 districts, 91 municipalities, 4,049 sub-districts and 66,721 villages**
- ★ Total population in 2000 is 203,456,000 with population density of 106 persons per km²**
- ★ There are > 300 ethnic groups**

I. Introduction (3)

Indonesia has ratified :

- * Geneva Convention/Protocol**
- * Biological and Toxin Weapons Convention**
- * Chemical Weapons Convention**

A permanent Committee on Disarmament in the Ministry of Foreign Affairs functions as the National Authority

I. Introduction (4)

Members of the Permanent Committee on Disarmament (in the Ministry of Foreign Affairs) as follows :

- * Ministry of Foreign Affairs**
- * Ministry of Health**
- * Ministry of Science & Technology**
- * Ministry of Defence /Armed Forces Head Quarter**
- * National Atomic Energy Agency (BATAN)**
- * Ministry of Agriculture**
- * Indonesian Institute of Sciences (LIPI)**
- * Food and Drug Control Agency (BPOM)**

II. Biological Threats in Indonesia

✦ Pattern of possible ‘Biological Threats’

- Anthrax**
- Botulism**
- Hemorrhagic Fevers**
- Smallpox**
- The Plaque**
- Tularemia**

Pattern of other “Emerging Infectious Diseases” in Indonesia

- ✱ Tuberculosis
- ✱ Malaria
- ✱ HIV-AIDS
- ✱ Typhoid Fever
- ✱ Meningitis (meningococcus)
- ✱ Hantaan virus ?
- ✱ Rickettsioses ?

III. Institution with Capacity to Identify Pathogenic Microorganisms regarding “Biological Threats” in Indonesia as follows :

- ★ Veterinary Research Centre, Bogor, West Java.**
- ★ Biofarma, Bandung, West Java**
- ★ NIHRD Lab., Jakarta**
- ★ Dep. of Microbiology, Univ.of Indonesia, Jakarta**
- ★ Dep. of Microbiology, Airlangga University, Surabaya, East Java**
- ★ Namru – 2 Lab., Jakarta**
- ★ Provincial Health Lab., Surabaya, East Java**
- ★ Veterinary Research Institute, Surabaya, East Java**

IV. Biosecurity Efforts in Indonesia (1)

- ★ Decree of the Minister of Health of The Republic of Indonesia Number 1244 of 1994 regarding Guidelines on Biosafety in Microbiology and Biomedical Laboratories**
- ★ Decree of the Minister of Trade and Industry of The Republic of Indonesia No. 254/MPP/Kep/2000 regarding the export and import of certain dangerous materials, including chemical and biological agents**

IV. Biosecurity Efforts in Indonesia ...(2)

- * Training regarding Weapons of Mass Destruction (WMD) April 2003 in Jakarta in collaboration with US Dept. of State**
- * National Seminar on Bioterrorism, July 2003, in Jakarta, by Ministry of Science & Technology.**
- * Centre for Health Emergency Preparedness and Response established by Min. of Health (MOH)**

IV. Biosecurity Efforts in Indonesia (3)

- ★ National Team for Disaster Management, headed by the Coordinating Minister of People's Welfare**
- ★ Outbreak Response Team established by MOH & Namru – 2**
- ★ Early Warning & Outbreak Response System (EWORS) established by MOH and Namru-2 (WHO Collaborating Centre for Emerging Infectious Diseases)**
- ★ Group of Chemical & Biological Weapons Threats Analysis (NIHRD)**

V. Possible Future Threats

- * Geographic condition of Indonesia**
- * Possibilities used by separatist and Extremist Groups/organizations.**
- * Probability of some scientists joining on those extremist groups**

VI. Conclusion

- * Indonesia has ratified Geneva Convention, BWC and CWC**
- * Pattern of Possible “Biological Threats” and other “Emerging Infectious Diseases”**
- * Some institutions with capacity to identify pathogenic microorganism regarding “Biological Threats”**
- * Some efforts have been done regarding biosecurity**
- * Possible future threats**

VII. Acknowledgments

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