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WP4: Disaster Prevention

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Disasters covering wide areas in ASEAN region

JASTIP

Disaster Prevention

Typhoon
(Cyclone)

Hanoi

Thuyloi

YUT

AIT

Hue

UP

KU-ASEAN

NSTDA

Ho Chi Minh

Thuyloi

USM

Tsunami

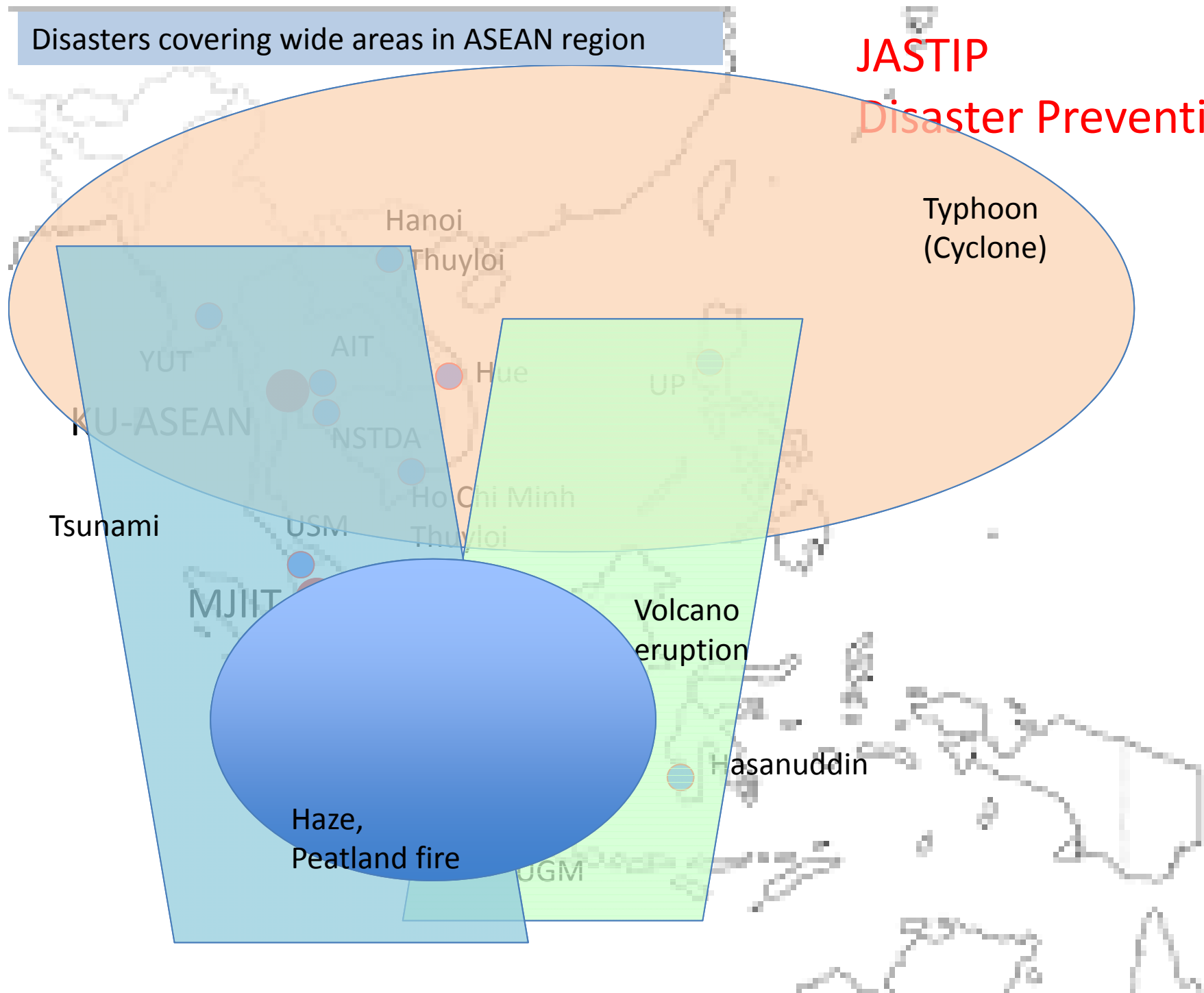
MJIT

Volcano
eruption

Hasanuddin

Haze,
Peatland fire

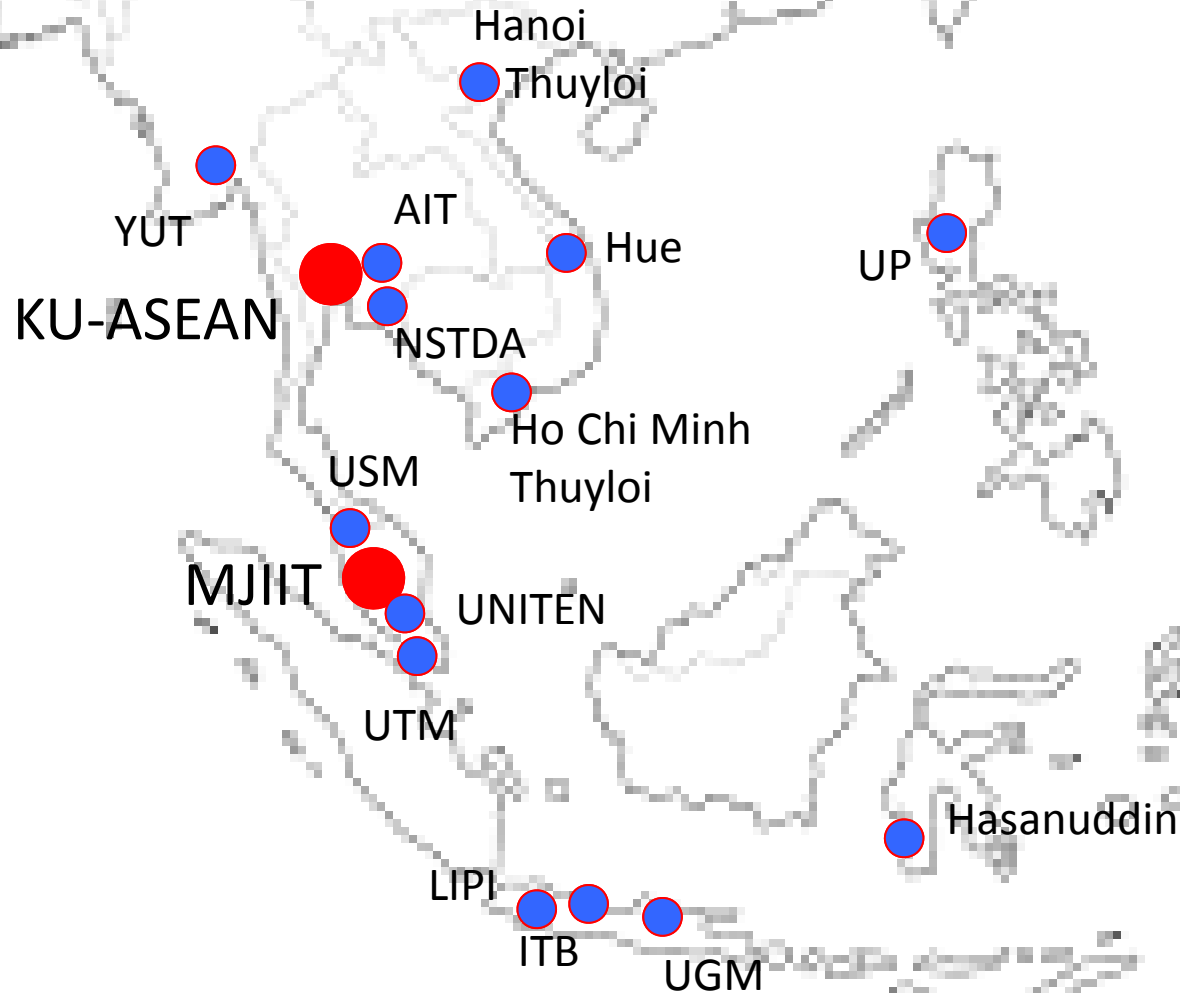
UGM



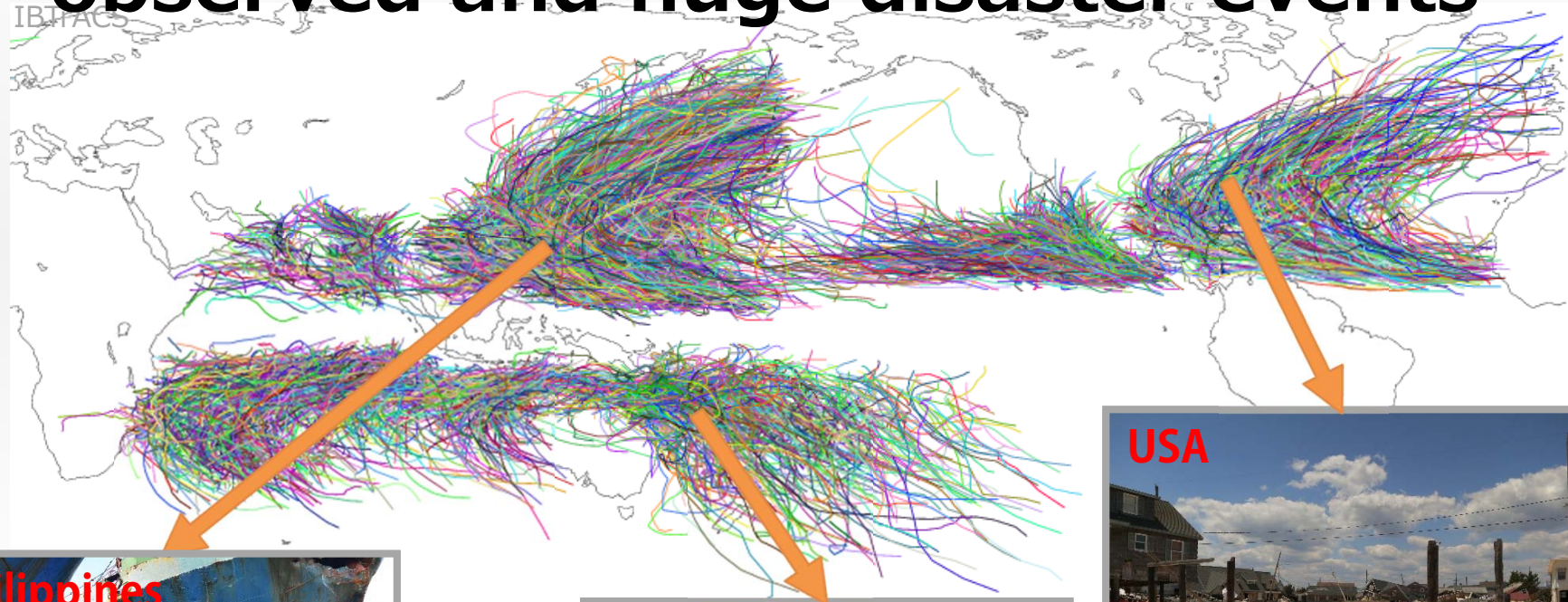
Possible counterparts in ASEAN region
(as of March 2016)

JASTIP Disaster Prevention

Kyoto University
University of Tsukuba
Tohoku University
Kansai University
etc.



Typhoon (cyclone, hurricane) tracks observed and huge disaster events



Typhoons/Cyclones are strengthened

Disaster Prevention:

Establishment of scientific technology and social technology to effectively and timely cope with hazard events and disaster risks increasing

Technologies to adapt population growth, urbanization and increasing disaster crisis

Integrated risk management for huge disasters in ASEAN humid tectonic zones

Typhoon (high tide, storm, flood, landslide)
Volcano eruption (debris flow, aircraft)
Forest fire (haze, health)
Earthquake (tsunami)

Early Warning Systems (EWS) and int'l cooperation to cope with wide-area disasters

Graduate school education
For disaster management (MJIIT)

Expected outcomes:
Social applications of STI
in disaster management

Establishment of interdisciplinary/International system in higher education and capacity building in disaster prevention in ASEAN

Cooperate Social Responsibility (CSR)
of private companies
In disaster management



Education and Capacity Building

- ASEAN international **Disaster Management** graduate school program in MJIT to be started since Sep. 2016
- **DPPC** (Disaster Preparedness and Prevention Center) in MJIT: Concept Paper already drafted
- Malaysian 16 organizations (incl. 5 universities: UTM, UNITEN, UKM, USM, and Multimedia U.)
- Courses can be taken by students from ASEAN countries and Japan
- Establishment of interdisciplinary/International system in higher education and capacity building in disaster prevention in ASEAN
- MJIT Consortium formed **Disaster Prevention Sub-Committee** in Sep. 2015 (Univ. of Tsukuba, Kyoto Univ. Kyushu Univ., GRIPS, ICHARM, NIED)

Four focuses by DPPC, MJIIT

- X-band MP radar application for rainfall forecasting
- Hydrological modeling and analysis including water quality
- Multi-Geohazards
- Build back better (BBB) – business continuity plan (BCP)

Joint Laboratory to be established in MJIIT



MoU to be signed by KU and MJIIT-UTM in August 2016



**GENERAL MEMORANDUM FOR
ACADEMIC COOPERATION AND EXCHANGE BETWEEN
KYOTO UNIVERSITY
AND
UNIVERSITI TEKNOLOGI MALAYSIA**

The presidents of Kyoto University and Universiti Teknologi Malaysia hereby conclude an agreement for academic exchange and cooperation between the two universities (referred to hereafter as 'the two parties').

1. The two parties will promote in particular the following activities:
 - [1] Exchange of scientific materials, publications, and information
 - [2] Exchange of faculty members
 - [3] Exchange of students
 - [4] Joint research and meetings for research
2. These activities are to be carried out after mutual consultation between the two parties or the divisions concerned thereof.
3. All financial arrangements to pursue any of the above activities are to be negotiated for each specific case.
4. The two parties agree that, in the event of research collaboration leading to patent rights, copyrights or other intellectual property rights, a further agreement must be negotiated in each case in accordance with the policies of the two parties on intellectual property.
5. Amendment of this general memorandum is to be effected upon deliberation by the two parties.

6. This general memorandum shall be effective upon signature by the two parties and shall remain in force for a period of five years. Thereafter it may be reviewed and extended upon agreement by the two parties.

7. Termination of this general memorandum may be effected upon deliberation by the two parties. Either party has the right to terminate the memorandum without liability by giving six months notice in writing of such intent.

8. The general memorandum is written in English.

Date

Date

Juichi Yamagiwa
President
Kyoto University

Prof. Datuk Ir. Dr. Wahid Omar
Vice Chancellor
Universiti Teknologi Malaysia

Forthcoming meetings

- JASTIP-WP4 Symposium: Kyoto Univ., March 24-26, 2016
- Seventh International Conference on Water Resources and Environment Research (ICWRER2016): Kyoto TERSA, June 5-9, 2016
- AUN/SEED-Net Regional Conference on Natural Disaster (RCND), MJIIT/UTM, KL, Malaysia, Sep. 6-7, 2016
- Third Global Summit of Research Institutes for Disaster Risk Reduction, DPRI, KU, March 2017 organized by GADRI



GADRI

Established in March 2015

90+ member organizations from
25 countries/areas

Secretariat: DPRI, Kyoto Univ.

First Board of Directors meeting
in DPRI on March 22, 2016

Third Global Summit of Research
Institutes for DRR in Kyoto in
March 2017

Strengthening Int'l Cooperation by JASTIP and GADRI



DPRI has 54 MoU's with overseas institutions