

# SATREPS NEWSLETTER

## Project for Development of a Comprehensive Disaster Resilience System and Collaboration Platform in Myanmar

Vol.5: Issued on 1<sup>st</sup> January 2019

### JUNE ACTIVITIES

#### 1. Timber Structure Evaluation Workshop

Earthquake Related Disaster Group conducted Timber Structure Evaluation Workshop which is lectured by Prof. Koshihara from the University of Tokyo. The officers from Myanmar Earthquake Committee and YTU students from Civil Engineering Department and Architecture



Demonstration of the earthquake resistance of timber structure

### JULY ACTIVITIES

#### 1. Pull down test

Earthquake Related Disaster Group made a Pull down test in YTU soccer field for Bamboo structured house and Timbered structured house which are common types of houses in slum areas of Yangon.



Pull down testing of Bamboo structured house



Pull down testing of timbered structure house

## AUGUST ACTIVITIES

### 1. Flood survey in Bago city

Bago city faces severe flooding annually during the rainy season. Water Related Disaster Group visited to Bago flooded area and conducted questionnaire survey among local people and investigated the propagation of flood during inundation.



Questionnaire survey to local people during inundation

## SEPTEMBER ACTIVITIES

### 1. Ground survey of Transportation Group

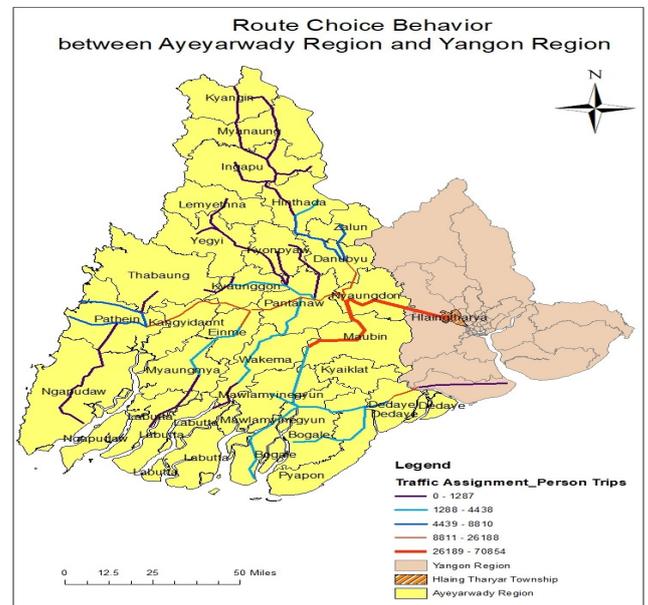
Transportation and Human Mobility Group visited around the city of Yangon to count the number of passengers by using GPS.



Surveying around Yangon City by using GPS



Showing the maximum water level of this year during severe flooding by local boat man



The map of Route choice Behavior between Ayeyarwaddy Region and Yangon Region

## 2. Tidal Bore observation in Sittaung River

Water Related Disaster Group visited to Sittaung River to observe the tidal bore which is assumed to be related with flooding in Bago city.



Preparation of pressure sensor which is to be installed in the river



Installation of pressure sensor in the river before coming tidal bore

## OCTOBER ACTIVITIES

### 1. 4th Joint Coordination Committee (JCC) Meeting

4th Joint Coordination Committee (JCC) Meeting of SATREPS Project was held in Yangon Technological University. The previous achievement, progress of the project and future activities are explained by each group leader.



4th JCC Meeting

### 2. Remote Sensing & GIS Research Centre Launching Ceremony

As one of the achievement of SATREPS Project, Remote Sensing & GIS Research Centre was officially launched in Yangon Technological University.



Launching Ceremony of Remote Sensing & GIS Research Centre

## NOVEMBER ACTIVITIES

### 1. Microtremor Survey around Yangon city

Earthquake Related Disaster Group visited many townships of Yangon city and made microtremor survey



Group Discussion before microtremor survey



Microtremor surveying around Yangon city

### 2. Bridge inspection to Shwe Laung Bridge and Panmawady Bridge

Infrastructure Group visited to Shwe Laung Bridge and Panmawady Bridge in Ayeyarwady Region to inspect the conditions of bridges.



Inspection of anchorage condition in Shwe Laung Bridge



Overview of Panmawady Bridge and working area

### 3. Field survey in slum area of Yangon

Earthquake Related Disaster Group visited to slum area in Hlaing Thar Yar Township of Yangon to understand the actual standard of living condition of local people and to investigate their household conditions.



Questionnaire survey to local housewife about her household conditions

### 4. Checking the construction of structure for Automatic Water Level Station in Kalawe Bridge

Water Related Disaster Group visited to Kalawe Bridge to check the progress of the construction of structure for the Automatic Water Level Station which is intended to be installed in January 2019.



Checking the progress of construction of Automatic water Level Station at Kakawe Bridge

## DECEMBER ACTIVITIES

### 1. 9th International Conference of Science and Engineering

Project members of both YTU and Japan side submitted 10 papers to 9th International Conference on Science and Engineering (ICSE) which was held on 8-9 December 2018 at YTU.



Opening Ceremony of 9th International Conference on Science and Engineering



Exhibition Booth of SATREPS Project