



**Asia-Pacific
Economic Cooperation**

2017/SOM1/EPWG/030

Agenda Item: 10.2


Reviews and Reflections on 2016 Typhoon Season in Chinese Taipei

Purpose: Information

Submitted by: Chinese Taipei



**11th Emergency Preparedness Working Group
Meeting
Nha Trang, Viet Nam
18-19 February 2017**

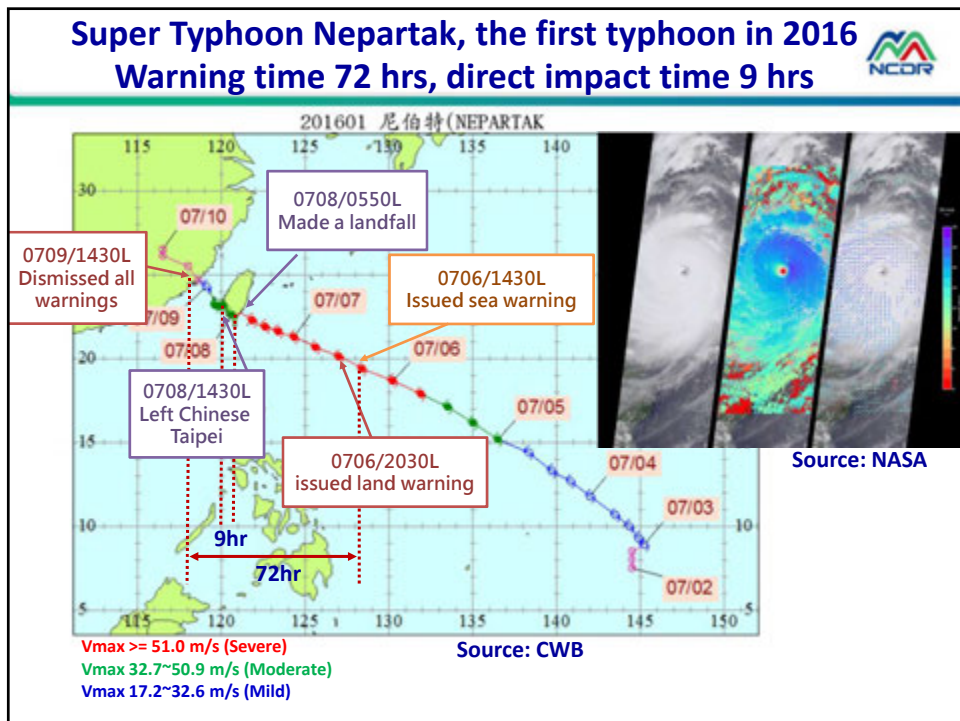
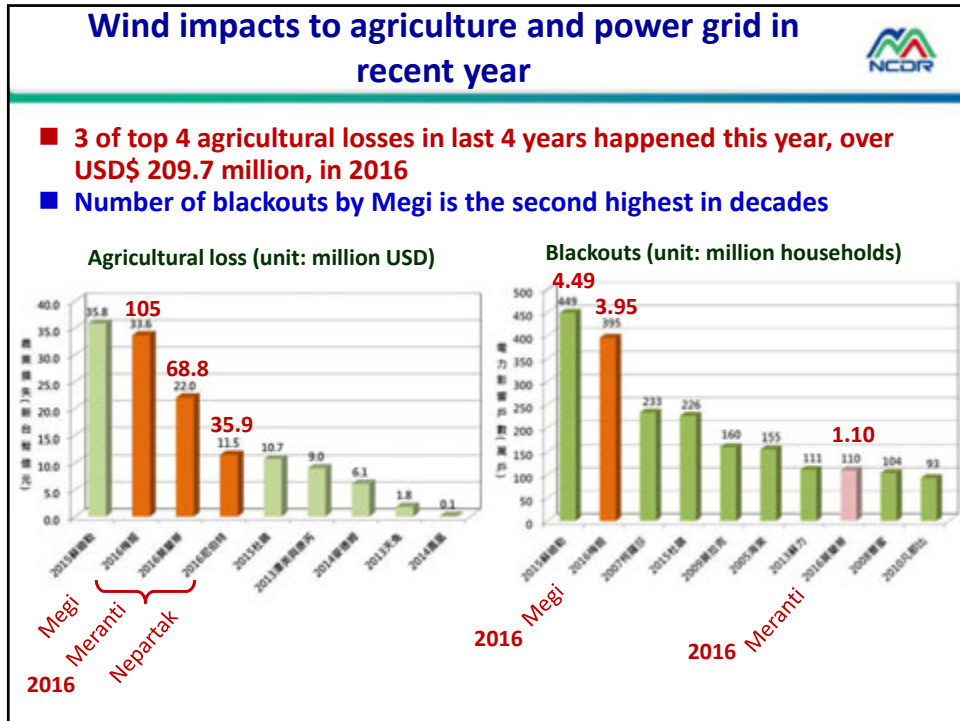


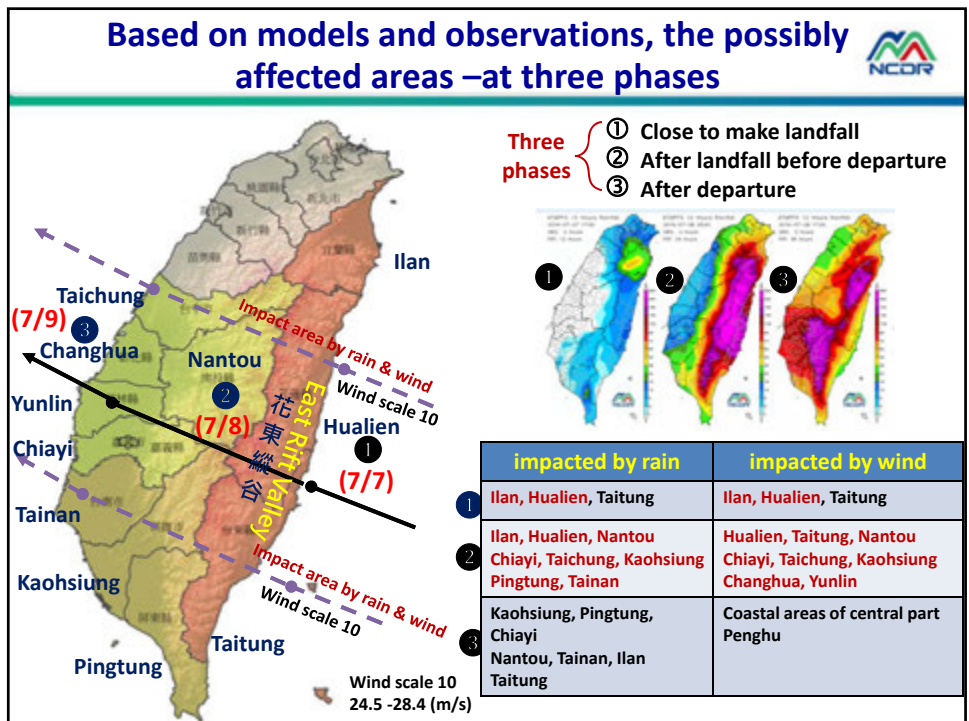
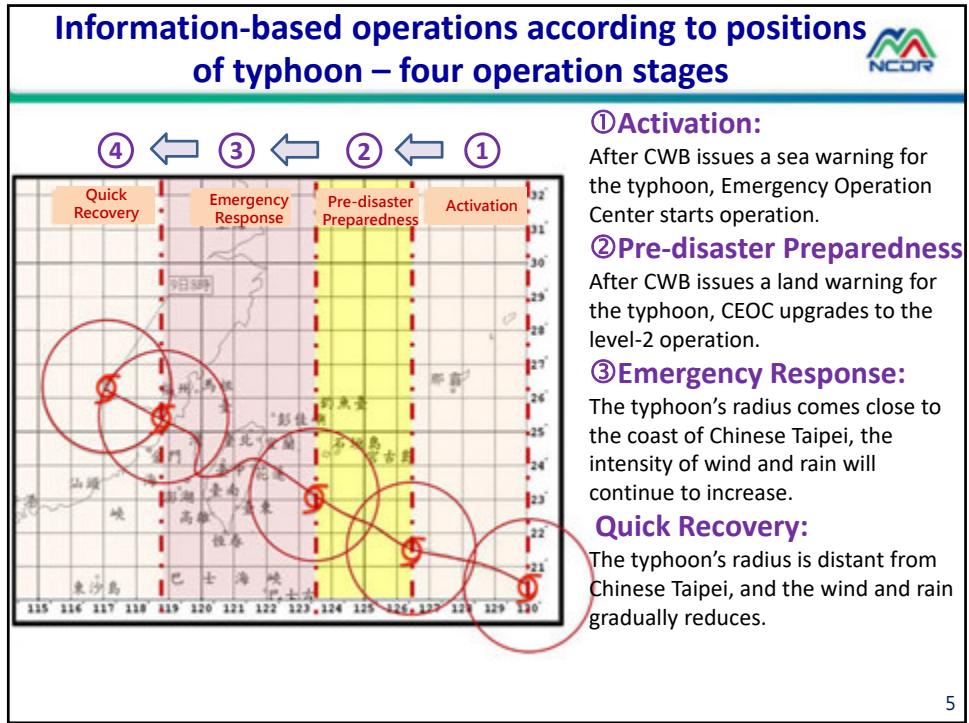
Reviews and Reflections on 2016 Typhoon Season in Chinese Taipei

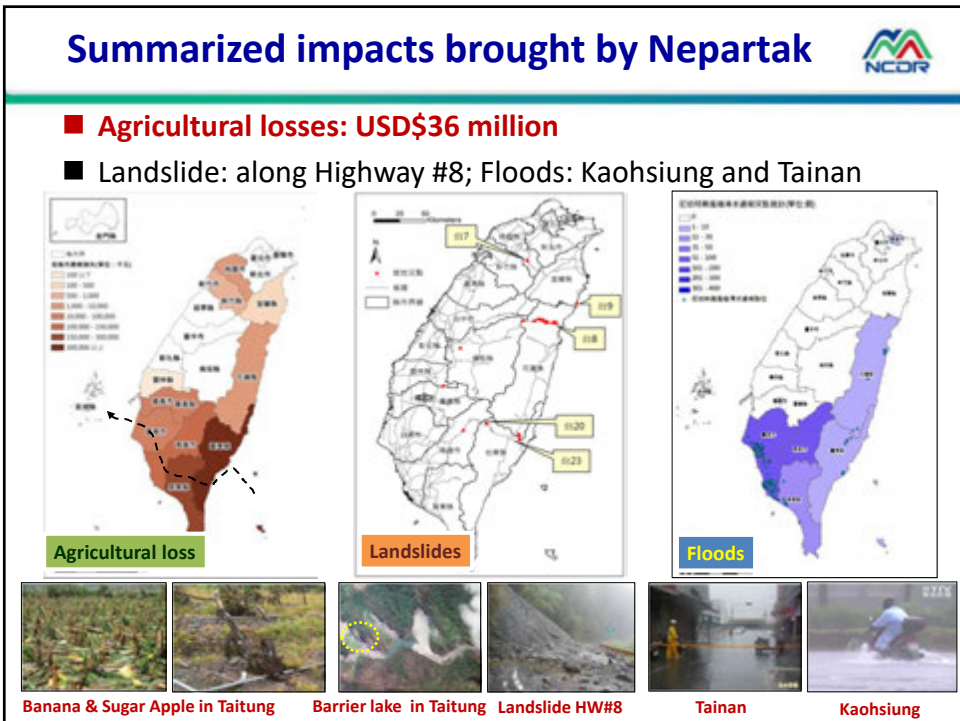
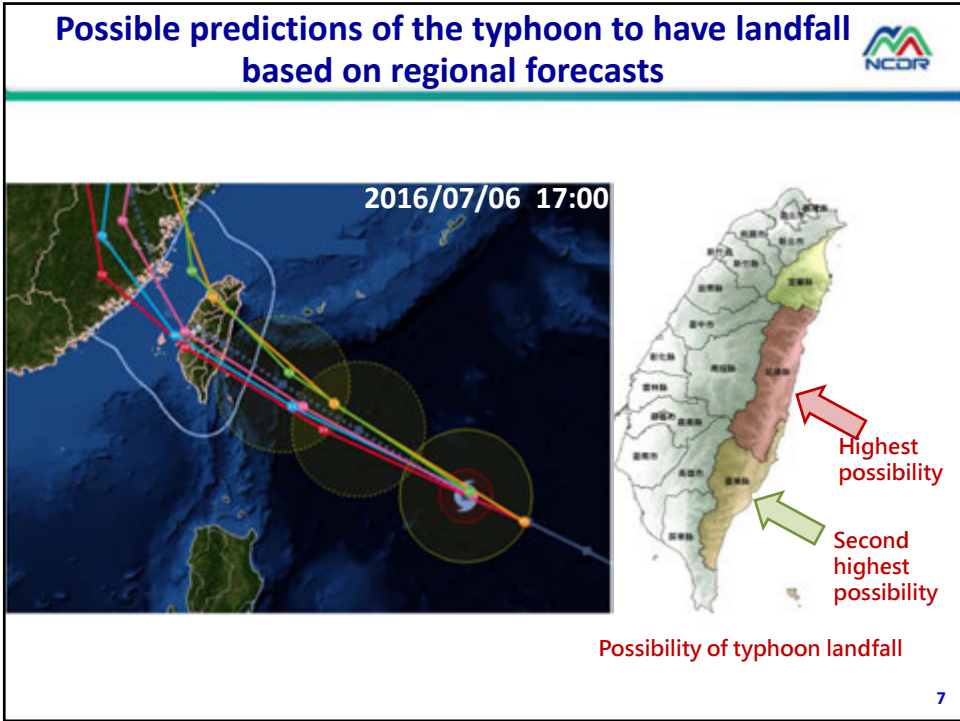
11th APEC Emergency Preparedness Working Group Meeting 2017/02/18

2016 typhoon season of the west Pacific region

- **The first typhoon of 2016, Nepartak, formed in July**
 - a late-first one compared with historical records
 - but reached Category 5, equivalent to a super typhoon
- **Wind damages to lifeline systems are major impacts**
 - power, telecommunications and transportation systems
- **Typhoon Meranti and Typhoon Megi**
 - million-household blackouts
 - Typhoon Megi caused up to 3.22 million households at blackout for days.







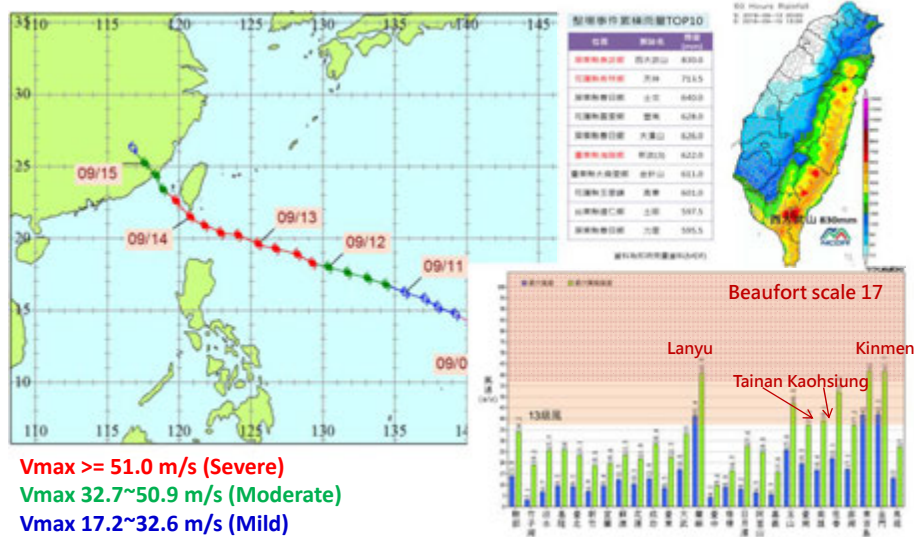
Wind damages in Taitung



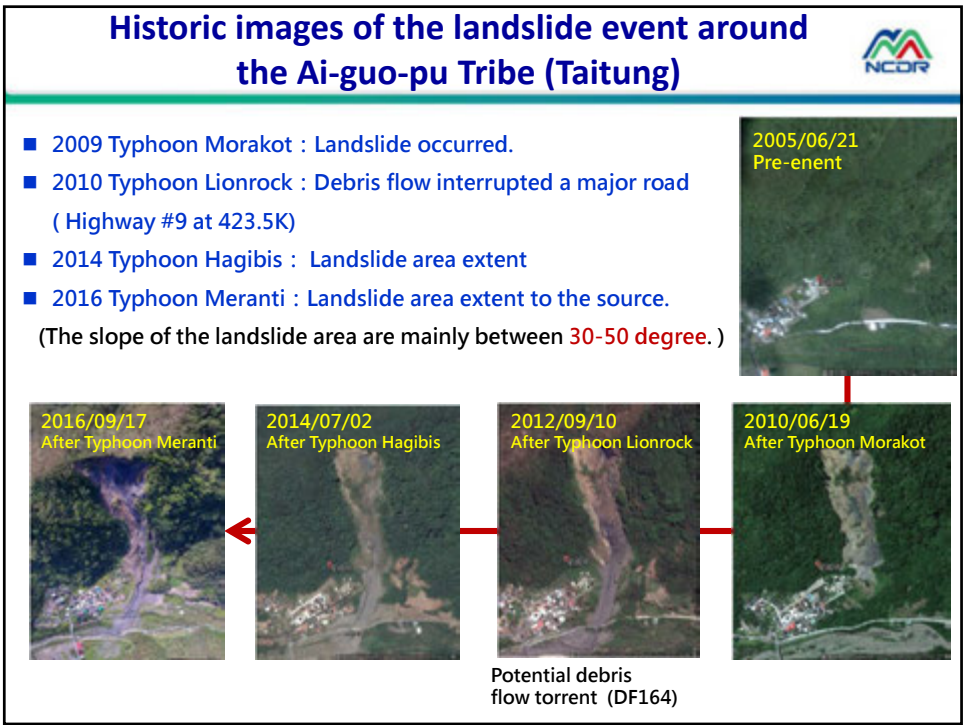
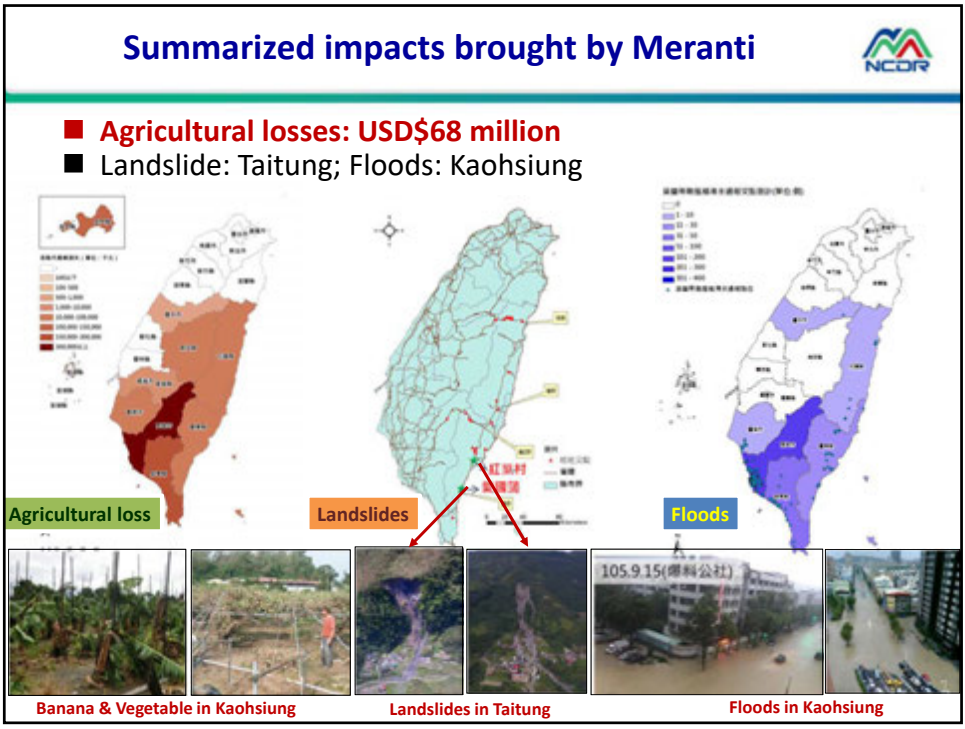
Super Typhoon Meranti



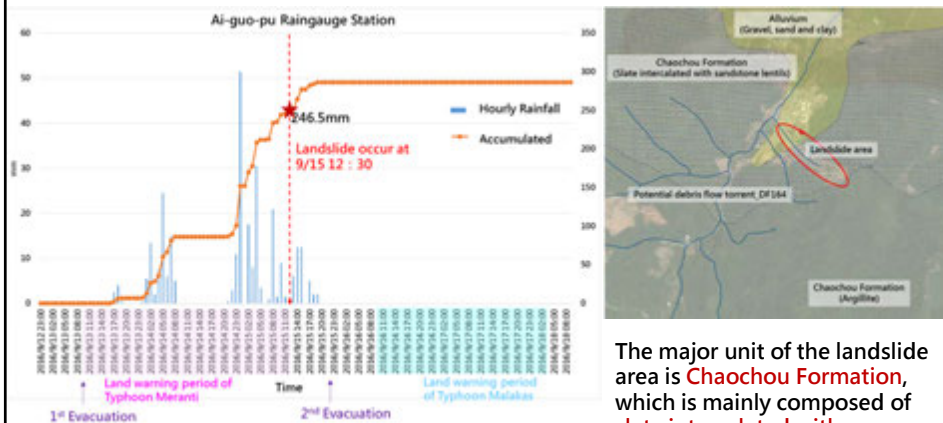
- Meranti decreased to moderate on during approaching China.
- Lanyu and Kinmen measured strong wind of Beaufort scale 17.



Vmax >= 51.0 m/s (Severe)
 Vmax 32.7~50.9 m/s (Moderate)
 Vmax 17.2~32.6 m/s (Mild)



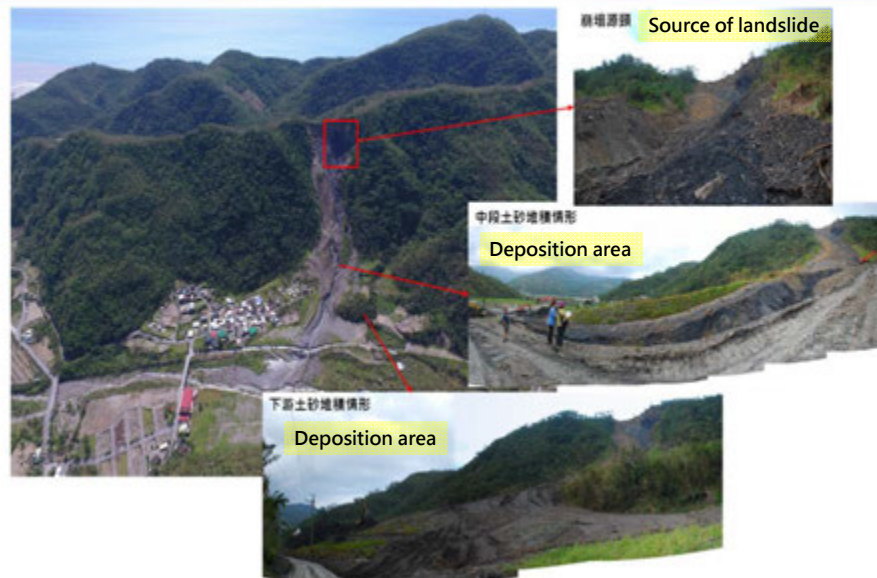
Rainfall time series around Tribe Ai-guo-pu (Taitung)



The major unit of the landslide area is **Chaochou Formation**, which is mainly composed of **slate intercalated with sandstone lentils**.

Identification from satellite image (THEOS, with spatial resolution of 15 meters), the landslide area (including deposition area) is around **3.5 ha**.

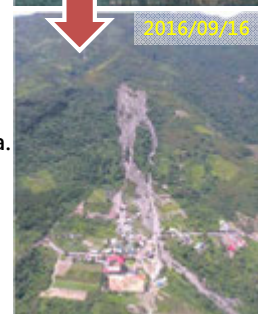
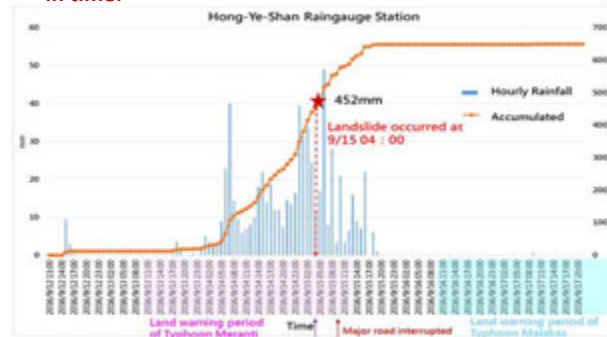
Field survey of the landslide area at Ai-guo-pu Tribe (Taitung)



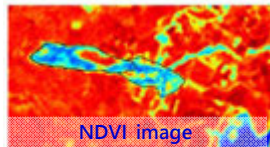
Landslide around Hong-ye Tribe (Taitung)



- Landslide occurred at 4am on 15th Sep.
- Due to power cut as a warning, over 100 people evacuated in time.



New landslide area (including deposition area) is around 19.6 ha.



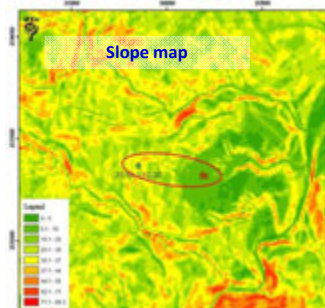
Thailand THEOS image

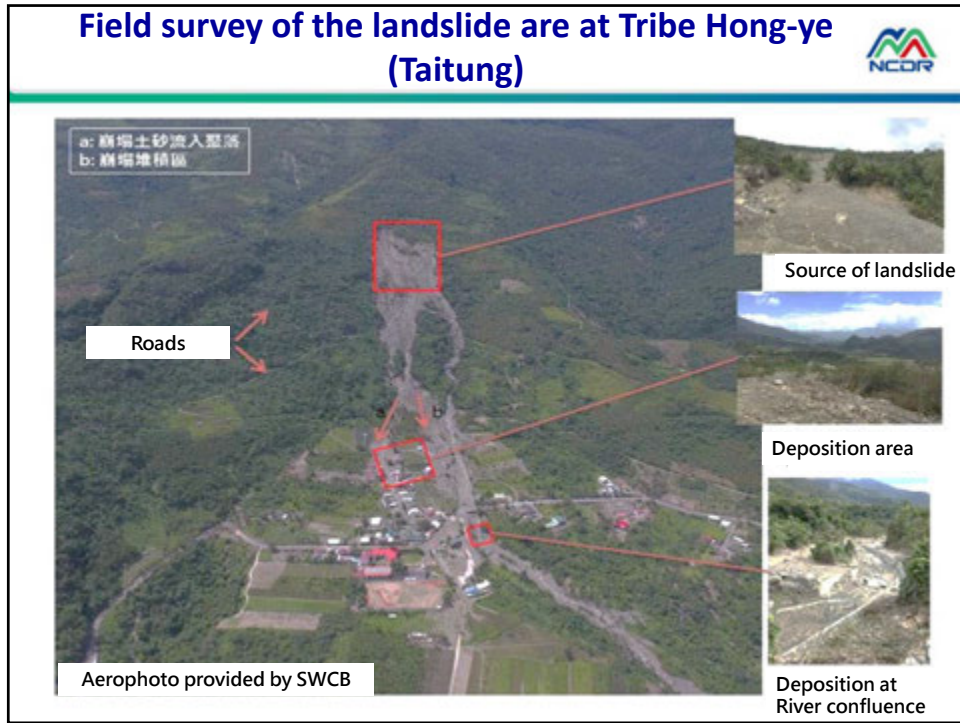
NDVI image

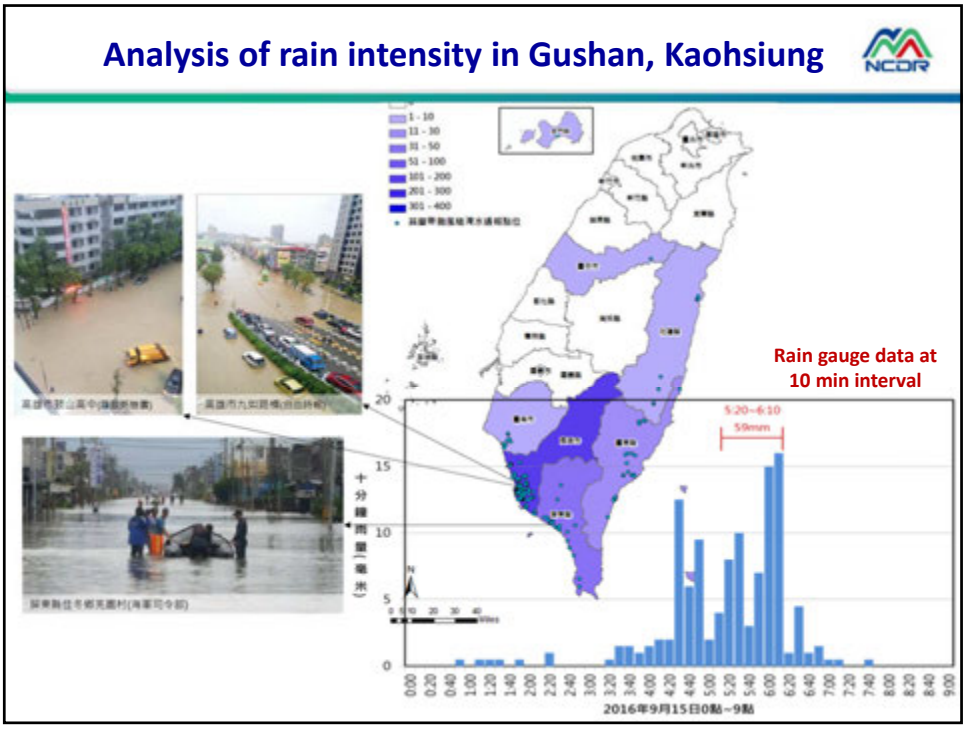
Geological environment of Hong-ye Tribe (Taitung)

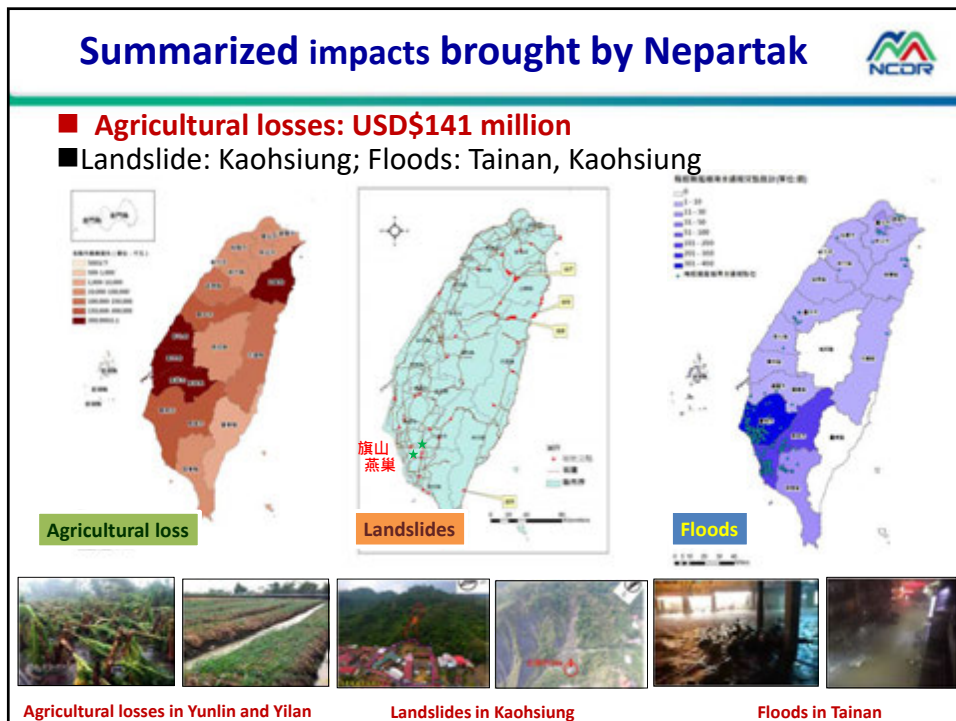
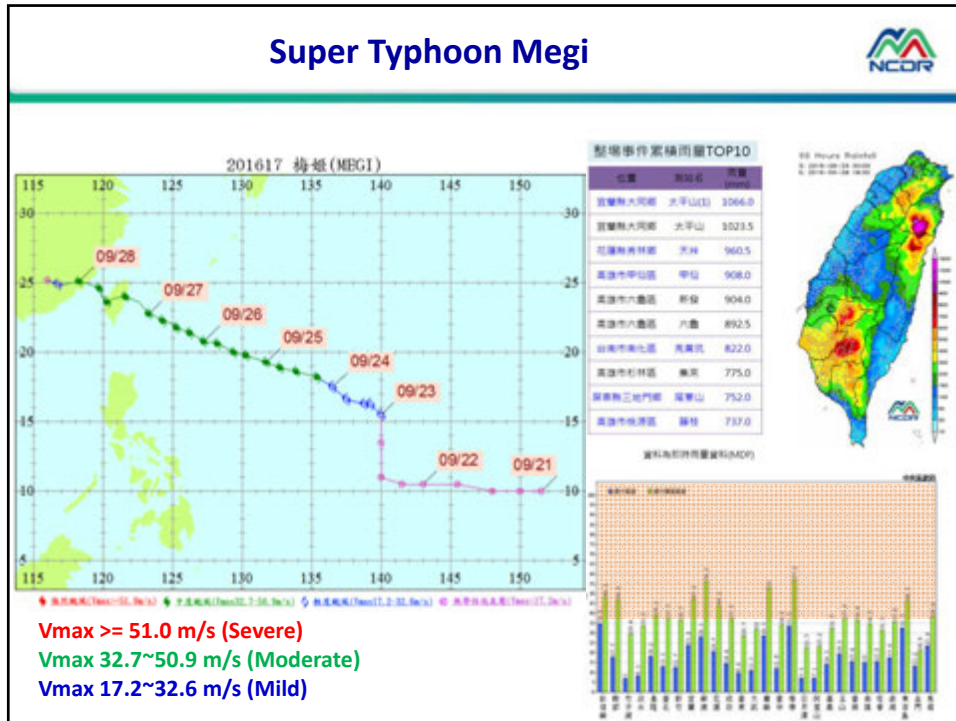


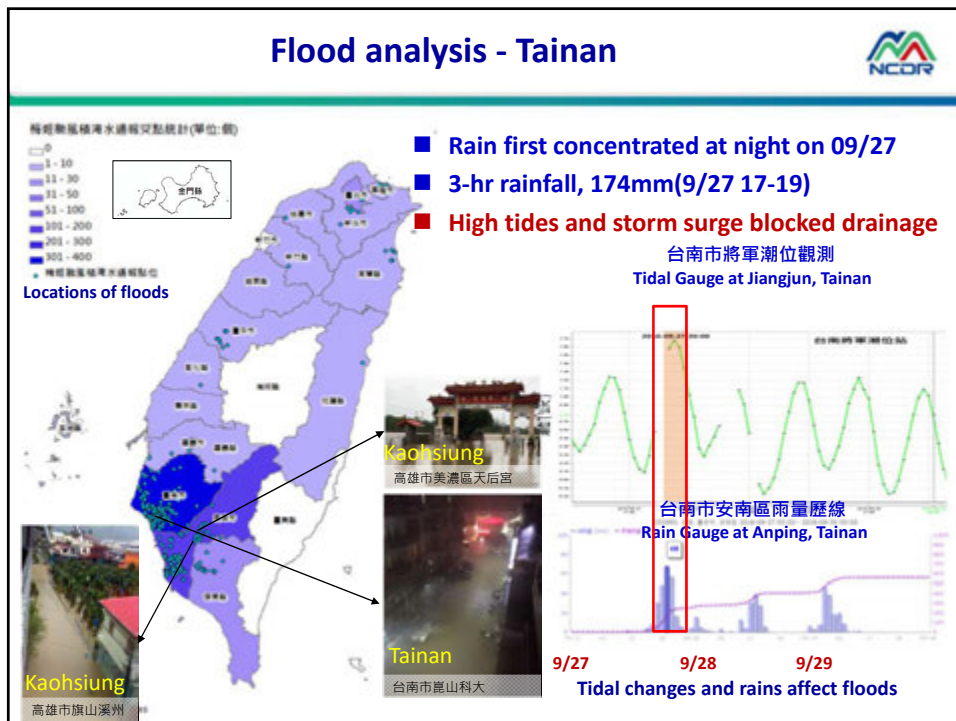
- **Hungyeh Formation**, the major unit of the landslide area, is mainly composed of **black slate with Meta-sandstone**.
- The slope of the landslide area are mainly between **30-45degree**.













**Thanks
for
your attention**