International Cooperation and Rescue

Submitted by: China
International Cooperation and Rescue

Ministry of Emergency Management of People's Republic of China
一、近年来中国重特大自然灾害情况

I. China's Major Disasters in recent years

二、中国救灾体制机制

II. China’s Disaster Relief System and Mechanism

三、对亚太经合组织救灾合作的建议

III. Suggestions on future cooperation among APEC economies
基本国情

Diverse types

Wide scope

High frequency

Huge losses
China's Natural Disasters in recent years

- earthquake
- flood and hail
- typhoon
- forest fire
- drought
- earthquake
- snow
- earthquake
- flood and geological disaster
Wenchuan earthquake with magnitude 8.0, 12 May 2008.
(87150 death, 852.3 billion losses)

Yushu earthquake with magnitude 7.1, 14 April 2010.
(2968 death, 22.9 billion losses)

Zhouqu large-scale mud-rock flows, 8 August 2010.
(1765 death, 3.4 billion losses)

Lushan earthquake with magnitude 7.0, 20 April 2013.
(217 death, 65.9 billion losses)

Ludian earthquake with magnitude 6.5, 3 August 2014.
(729 death, 20.1 billion losses)
2008年南方雨雪冰冻灾害  Ice-snow and frozen disasters in South China in 2008
2008年汶川特大地震
Wenchuan Earthquake in 2008
2010年青海玉树地震
Qinghai Yushu Earthquake in 2010
Massive Mudslide in Zhouqu, Gansu Province in 2010
Natural Disasters in China in 2018

- 135 million affected, 635 dead or missing, 5.24 million relocated
- 96 thousands houses collapsed
- 20.8 million hectares damaged
- 264.4 billion RMB losses
Integrated operation of disaster prevention, rescue, and relief

Response to Typhoon Mangkhut
Response to Typhoon Mangkhut
Emergency Response on Floods in Shouguang
From October to November 2018, the Jinsha and Brahmaputra rivers were dammed four times in a row.

- **Jinsha river landslide**: a landslide blocks the Jinsha river swelling lake in Boluo township, Jiangda county, Tibet, on Oct 10 and Nov 3, 2018.

- **Yajiang clastic glacier flow swelling lake**: a clastic glacier flow formed a swelling lake on the Yajiang river in Gara village, Mirin county, Tibet, Oct 17 and 29, 2018.
Comparison of quake lake before and after Jinsha River Baige landslide

Before the landslide

The first landslide swelling lake (11 Oct)

The second landslide swelling lake (3 Nov)
On November 3, 2018, another landslide occurred at the previous landslide point of baige section of the jinsha river main stream, forming a swelling lake again. The total volume of the weir block is about 35.5 million cubic meters, with water storage volume of 578 million cubic meters. According to the comprehensive analysis of the disaster situation, the weir plug was disposed by manual intervention.
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President Xijinping: Adhere to the development concept of “People Centred”, to prioritizing disaster prevention and combining prevention, response and relief, to fully improve the capability of Comprehensive Disaster Risk Reduction.
Guiding Principles of National Disaster Prevention, Reduction and Relief

2 “adherence”
• Adherence to prioritizing disaster prevention and combining prevention, response and relief
• Adherence to unifying regular disaster reduction and emergency disaster relief

3 “paradigm shifts”
• From Post-disaster Relief to Pre-disaster Prevention
• From Single-hazard Disaster Response to Comprehensive Disaster Reduction
• From Disaster Loss Reduction to Disaster Risk Reduction
Ministry of Emergency Management
Functions & Responsibilities

- Reduce risk
- Improve public safety system
- Integrate and optimize emergency capacities and resources
- Establish an effective emergency management system with Chinese Characteristics
- Conduct rescue and relief against emergencies of nature and technology
Disaster monitoring and early warning mechanism

Including:

Meteorological disaster monitoring and forecasting system

Hydro-logical monitoring and flood early warning and forecasting system

Earthquake monitoring and forecasting system

Geological disaster monitoring system
Disaster monitoring and early warning mechanism

Marine disaster monitoring and forecasting system
海洋灾害监测预报体系

Forest and grassland fire early warning system
森林和草原防火预警体系

Disaster remote-sensing monitoring system
灾害遥感监测体系
National Comprehensive Fire and Rescue Team

中华人民共和国应急管理部

国家综合性消防救援队伍授旗仪式

2018年11月9日
**Mandates of central and local authorities**

Emergency response mechanism featured as central leadership, local responsibility, and response management at different levels with major responsibility deployed on local authorities.

Departments of emergency management has been established at all local levels from province to city.
灾后12小时内，受灾人员得到衣、食、住、医等基本生活救助，应急救助期结束后，政府给予过渡期生活救助。

Within 12 hours after the emergency, affected people will be able to access the food, clothing, shelter, medical assistance and other primary living needs. When emergency ended, intermediate assistance will be provided by the government.
Restoration and reconstruction mechanism

2008年汶川特大地震 Wenchuan Earthquake in 2008

汶川地震水磨镇灾后重建小区 Community rebuilt in Shuimo Town after Wenchuan Earthquake
<table>
<thead>
<tr>
<th>Disaster situation comparison</th>
<th>People affected</th>
<th>Agriculture affected</th>
<th>Building damage</th>
<th>Economic losses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>People affected</td>
<td>Death or missing</td>
<td>Evacuation</td>
<td>Affected area</td>
</tr>
<tr>
<td>2018年</td>
<td>13553.9</td>
<td>635</td>
<td>524.5</td>
<td>20814.3</td>
</tr>
<tr>
<td>2017年</td>
<td>14448</td>
<td>979</td>
<td>525.3</td>
<td>18478.1</td>
</tr>
<tr>
<td>较2017年增减数量</td>
<td>-894.1</td>
<td>-344</td>
<td>-0.8</td>
<td>2336.2</td>
</tr>
<tr>
<td>较2017年增减比例</td>
<td>-6%</td>
<td>-35%</td>
<td>0%</td>
<td>13%</td>
</tr>
<tr>
<td>2013－2017年均值</td>
<td>23030.5</td>
<td>1540</td>
<td>779.3</td>
<td>24541.8</td>
</tr>
<tr>
<td>较2013－2017年均值增减数量</td>
<td>-9476.6</td>
<td>-905</td>
<td>-254.8</td>
<td>-3727.5</td>
</tr>
<tr>
<td>较2013－2017年均值增减比例</td>
<td>-41%</td>
<td>-59%</td>
<td>-33%</td>
<td>-15%</td>
</tr>
</tbody>
</table>
EME has established stable and sound relationships with various international, regional, intergovernmental organizations and input the great effort to make the cooperation scope and depth expanded and extended.
Bilateral Mechanism

Russia
United State
Japan
German
France
Korea
Kazakhstan
Switzerland
many others
The China International Search and Rescue (CISAR) team was set up in 2001. 
INSARAG External Classification (IEC), 2009;  
INSARAG External Re-classification (IER), 2014  
CISAR team members: 480; Military, the Armed Police, Experts  
Functions:  
management, Logistics, Search, Rescue, Medical and Disaster Assessment
Up to 2017, 11 domestic missions and 10 international missions
Rescue Missions

• April 26, 2015, 62-member CISAR arrived Nepal for rescue mission. Rescued 2 survivors.
Rescue Exercises

- ARF Disaster Relief Exercise 2015
Rescue Exercises

• INSARAG AP Regional Earthquake Response Exercise, Since 2012, co-funded by China and US, annually in AP region.

• August, 29-30, 2014, INSARAG AP Earthquake Response Exercise, held in Chengdu, China. More than 150 participants from 16 countries and international organizations and UN representatives.
CSAR Mission in Mozambique

TROPICAL CYCLONE IDAI IN MOZAMBIQUE

Time: 14 March 2019
Location: Near Beira City
Affected PEOPLE: 1.72M
CSAR Mission in Mozambique

- Work on site (10 days)
- Victims Transport : 6
- Water distribution : 2,320L
- Food distribution : 7,800
- Medical distribution : 2,900
- decontamination area : 330,800m²
- Medical treatment : 3,337
Work on site (action)
Departure

Donation: about 5 million (CNY)  
(food, medical, boat, camp,  
rescue & medical devices, etc.)
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Typhoon Risks

Saffir-Simpson Hurricane Intensity Scale

- Tropical Depression
- Tropical Storm
- 1
- 2
- 3
- 4
- 5
Suggestions on future Cooperation

Four Aspects could be highlighted in the future:

- Exchange of information, technology and personnel;
- Projects of training, exercise, workshop and others;
- Cooperation on advanced technology application for risk reduction;
- Cooperation on international rescue.
Suggestions on future Cooperation

Cooperation on international rescue------Join Us!

“Flame Blue” International Fire and Rescue Technical Exchange and Games
China, Zhejiang Province, Hangzhou City
2019 November 4-9
Cooperation on international rescue------Join Us!

“Belt and Road” disaster management cooperation forum

China, Beijing, 2020 first half year
Thanks