

2016/SOM3/CSA/013 Agenda Item: 2

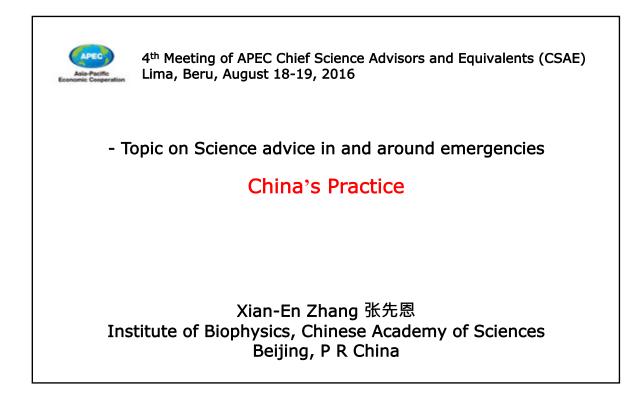
Topic on Science Advice in and Around Emergencies - China's Practice

Purpose: Information Submitted by: China



- 2016

Fourth APEC Chief Science Advisors and Equivalents Meeting Lima, Peru 18-19 August 2016

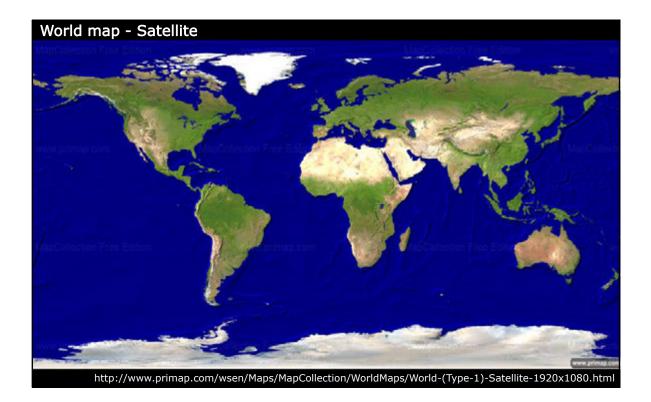


Natural disasters

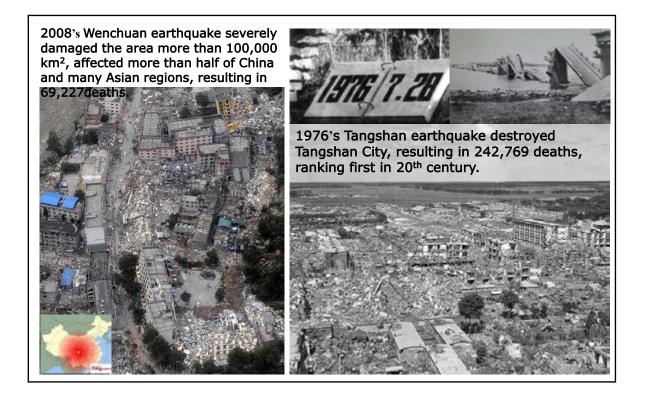
- Emerging disasters earthquakes, volcanoes, landslides, tsunamis, typhoons, floods, infectious diseases ...
- Gradual disasters land subsidence, land desertification, drought, coastline changes ...
- Environmental disasters caused by human activities ozone layer change, water pollution, soil erosion, acid rain

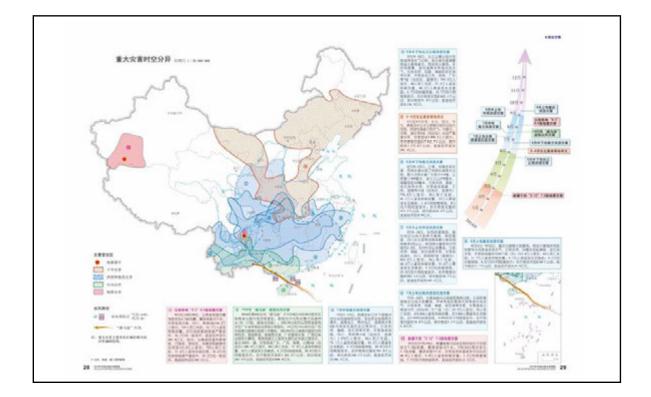
Impact of the emerging disasters

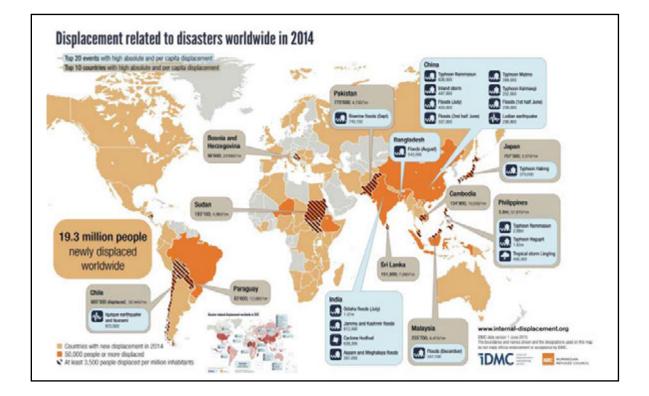
- The harm caused by natural disasters is often shocking. In 2015, a total of 198 natural disasters, caused economic losses of about \$80 billion. For example, the Nepal led to nearly 9000 people killed. Including India, China and Bangladesh, the total loss reached \$6 billion.
- The influence of natural disasters is very wide. Major disasters can cause damage to resources and environment, increase fiscal spending, affect the normal social order, industrial and agricultural production and business order. Therefore, it is necessary to recognize the occurrence and development of these disasters, and to make it possible to reduce the harm.

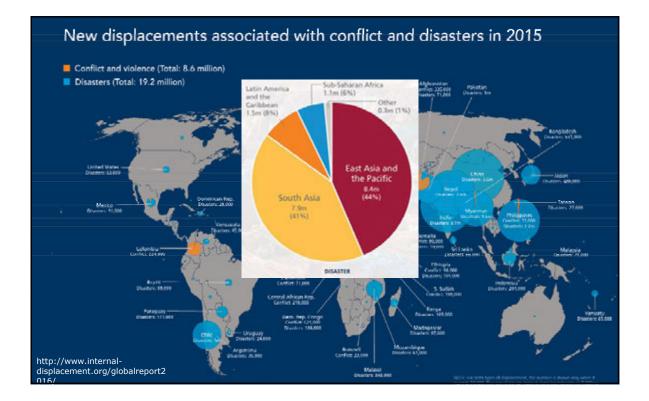












国家减灾委员会 China Nationa		neral office	Run by the ministry of Civil Aff
Commission for Dis Reduction	saster Boa	rd of Experts	Headed by Prof. Qin Dahe
Reduction		http://www.jiar	nzai.gov.cn//DRpublish/jggl/00010008-1.htn
The publicity department of the Central committee of the CPC 中宣部	General office of the state council of the PRC 国务院办公厅	MOFA 外交	部 NDRC 发展改革委
MOE 教育部	MOST 科技部	MOIIT 工信	部 MOPS 公安部
MOCA 民政部	MOF 财政部	MOLR 国土资	源部 MOPD 环保部
MOHURD 城乡建设部	MOT 交通部	MOWR 水利	HTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
MOC 商务部	NHFPC 卫计委	SOASAC 3	资委 SGAOPRT新闻出版总 局
SAWS 安全监管总局	NBS 统计局	SFA 林业居	局 CAS 中科院
Seismological Bureau 地震局	Meteorological Administ. 气象局	SOASAC 国	资委 NSFC 自然基金委
SOA 海洋局	Geographic Information Bureau 测绘局	Chinese People's Lit Army General Staf	
CSST 中国科协	Red Cross Society 红十子总会	China Railway 铁路总公司	Co.



The vice minister of MCA, Dou Yupei said, Chinese govern**fisentequas** to be actively echoing to the initiative of UN International Decade for Natural Disaster Reduction (IDNDR) and has established a disaster management mechanism **featuring united leadership by the government, division of responsibility among departments, tiered management of disasters and localities' management as the main role**. Chinese government has paid great attention to give full play to the **backbone role of S&T in disaster prevention and reduction** by continuing to increase the investment in S&T, strengthening the fundamental research and applied research.

MOST

- Work plan of dealing with major natural disasters by sciences & technology. Four tasks are clear. First, to strengthen inter departmental coordination in strategic planning; second, initiate a major research project; third, to provide scientific basis for disaster prevention and mitigation.
- Establishment of a expert group to deal with natural disasters
- Special key projects for monitoring, warning and prevention of major natural disasters
- *The S&T solution for EI Nino event*, providing strong science bases for decision making.
- Science and technology to deal with natural disasters key area of the BRIC-country cooperation framework.

NSFC

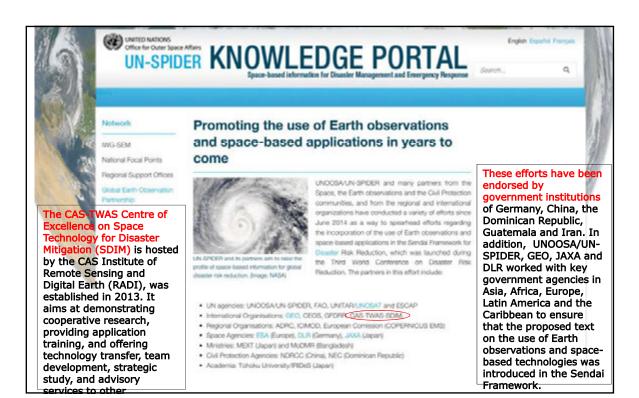
• Research project"prevention and monitoring of natural disasters", calling proposals to implement the BRICS STI Framework Programe

Remote sensing is a key technology in disaster reduction

国家自然灾害救助应急预案 National natural disaster relief emergency plan (2016 Revision) - Set up space and ground integrated disaster monitoring and early warning, analysis and evaluation and decision support system, as well as Demonstration and training.

救助应急预案 Emergency procedures for disaster relief work (by the Ministry of Civil Affairs, 2015 Revision) - Use of satellite remote sensing disaster monitoring products at home and abroad, and combine the field information, basic geographic information, historical information and other sources of information, to carry out the comprehensive assessment of the disaster and its development trend.

灾害风险与损失评估工作规程 Working procedures for disaster risk and loss assessment (by the National Disaster Reduction Center of the Ministry of Civil Affairs, 2013 revision) - Remote sensing data production, disaster feature parameter extraction, major disaster emergency response and recovery and reconstruction inspection products; determination of the possible risk assessment scope.



4th Meeting of the ICG/PTWS Reginal Working Group on Tsunami Warning and Mitigation System in the South China Sea Region Quezon City Philippines, Mar. 2016



The meeting was participated by the representatives the South China Sea surrounding countries and Intergovernmental Oceanographic Commission (IOC), Japan's northwestern Pacific Tsunami Warning Center, and formally adopted China's working plan for construction of the South China Sea regional tsunami warning center. The second meeting will be held in China.

Hopefully the new system will take key role in tsunami warning and mitigation in the South China Sea region.