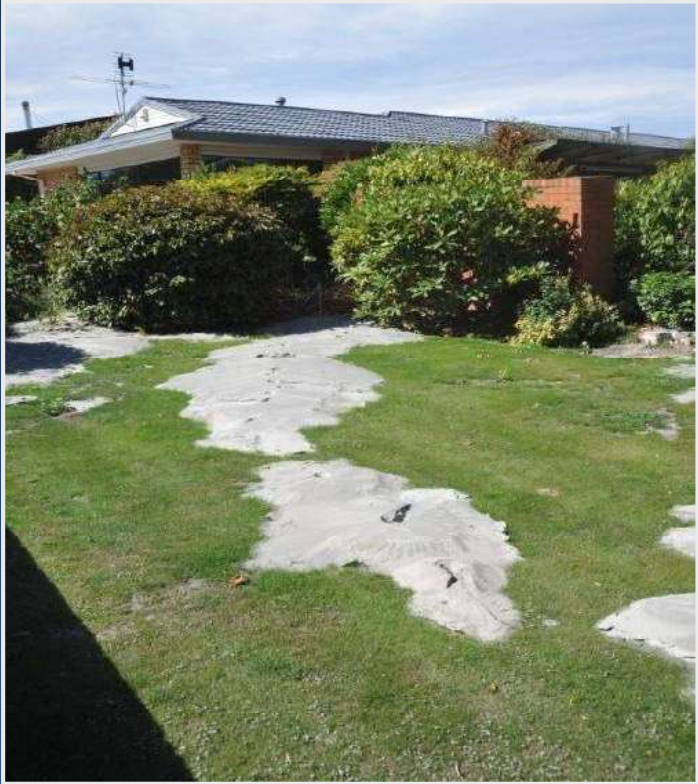






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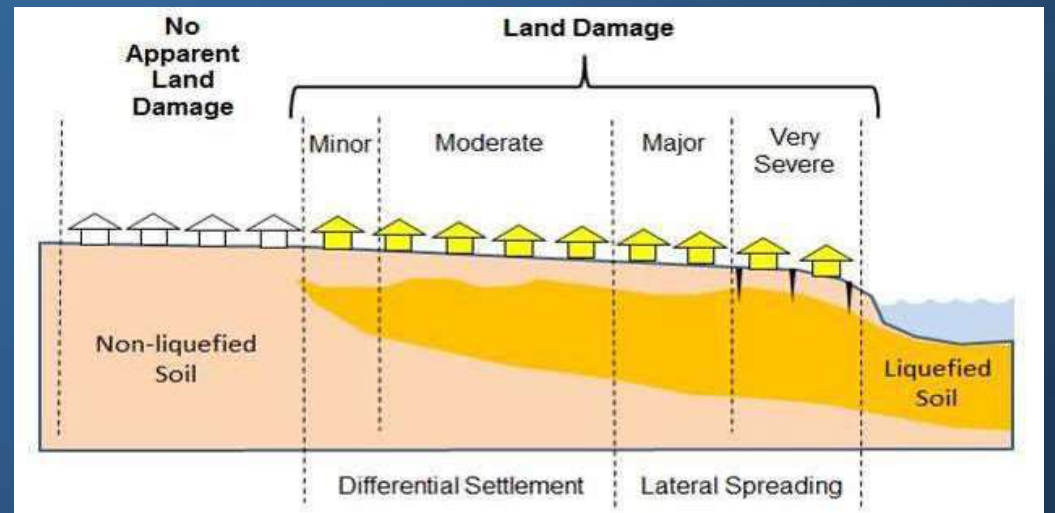
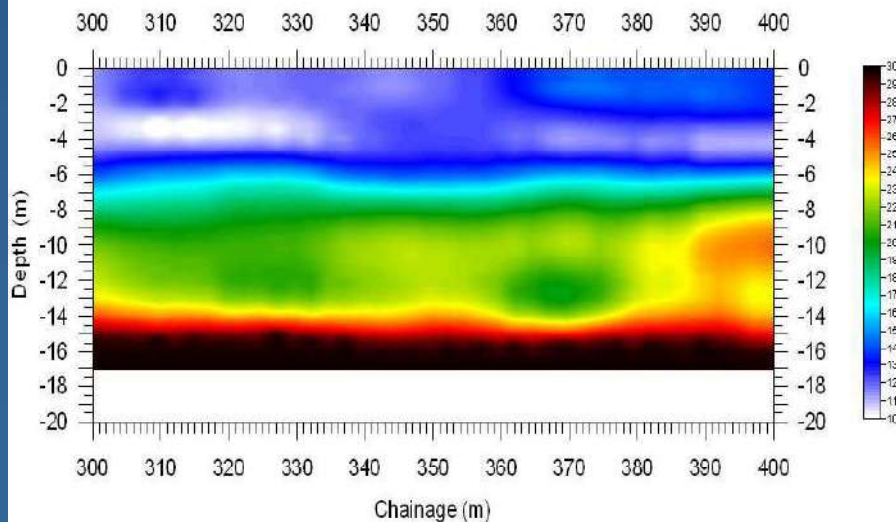
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Type of Damage	Minor	Moderate	Major
Cracking	0 to 5mm	5 to 10mm	>10mm
Sliding	0 to 20mm	20 to 50mm	>50mm
Tilting	0 to 10mm	10 to 50mm	>50mm
Rotting/Tilting	0 to 50mm	50 to 100mm	>100mm
Tilting	0 to 20mm	20 to 50mm	>50mm
Subsidence/Foundation	0 to 50mm	50 to 100mm	>100mm
Structural Damage	0 to 50mm	50 to 100mm	>100mm



Bexley North 300-400m MASW



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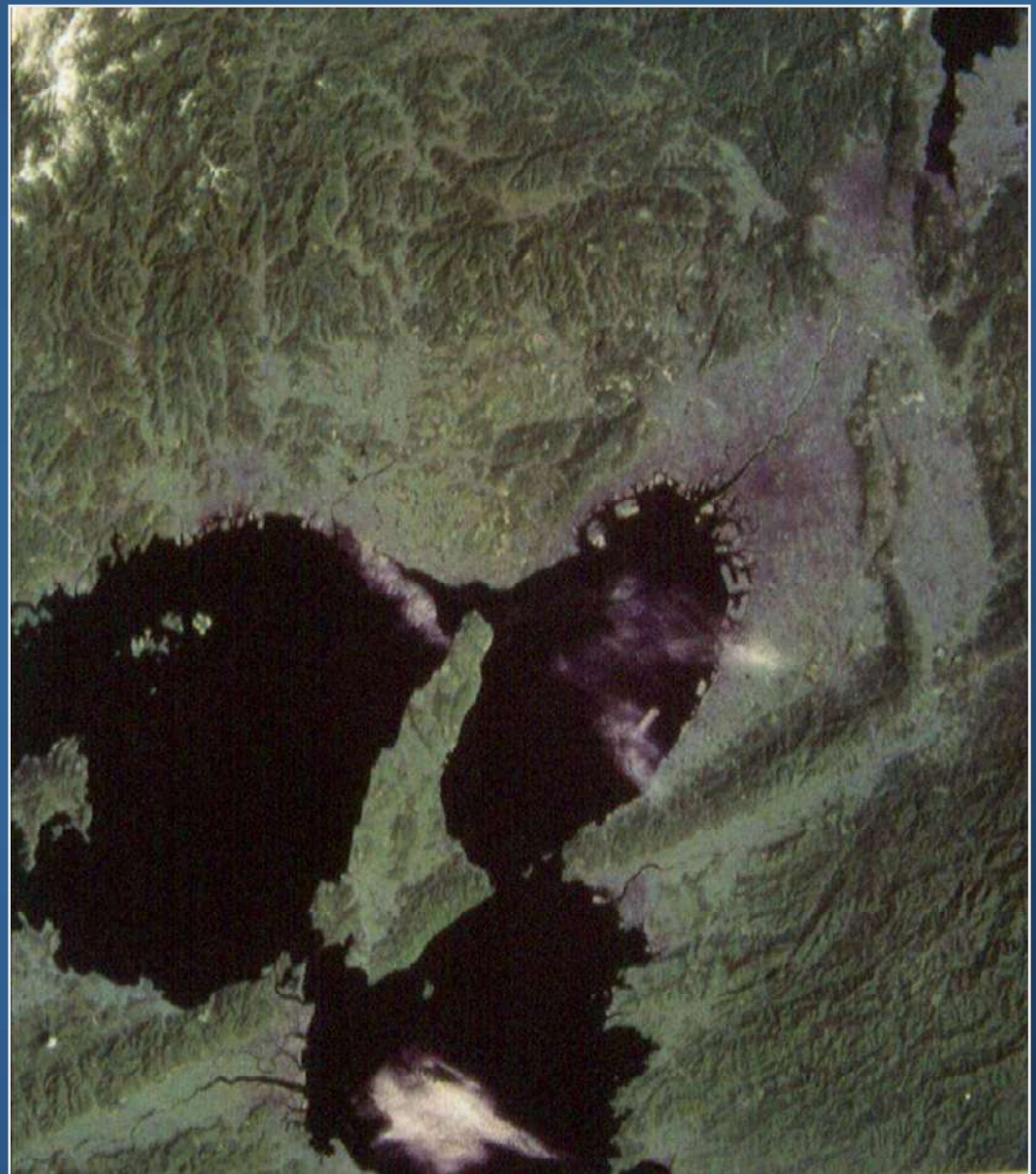
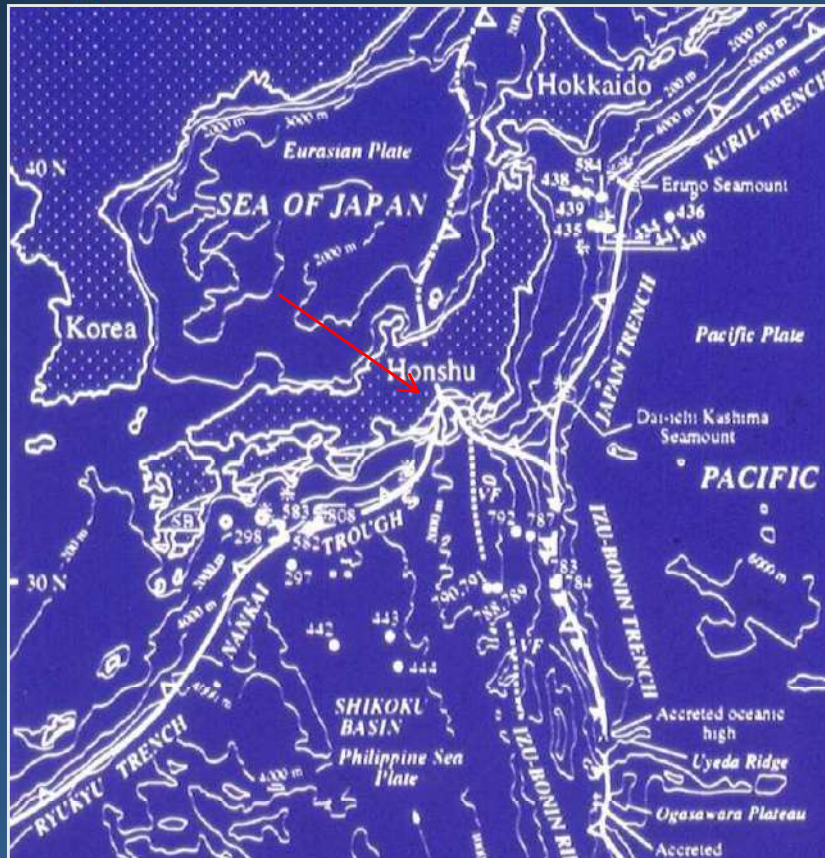
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ドキュメント 激震!!

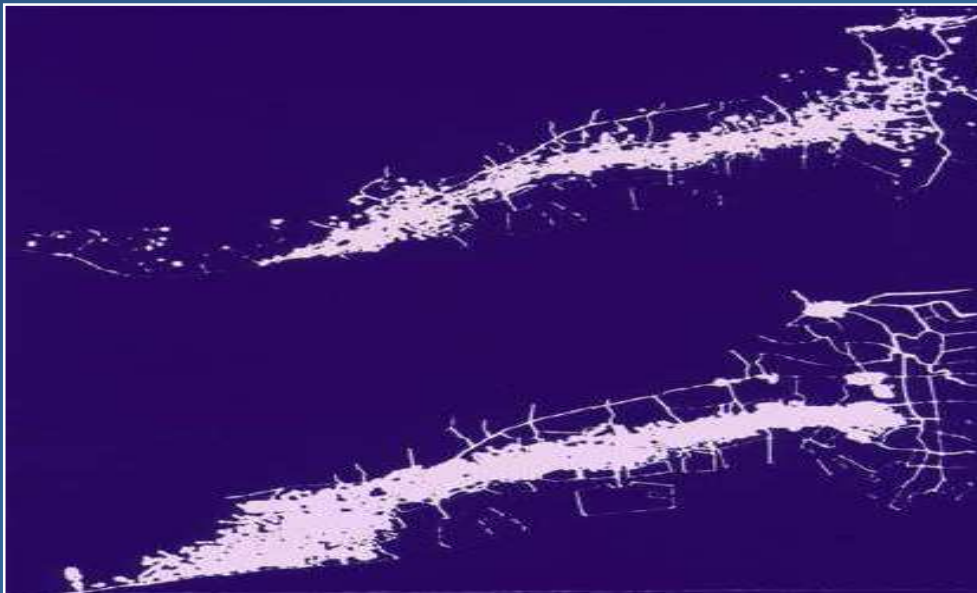
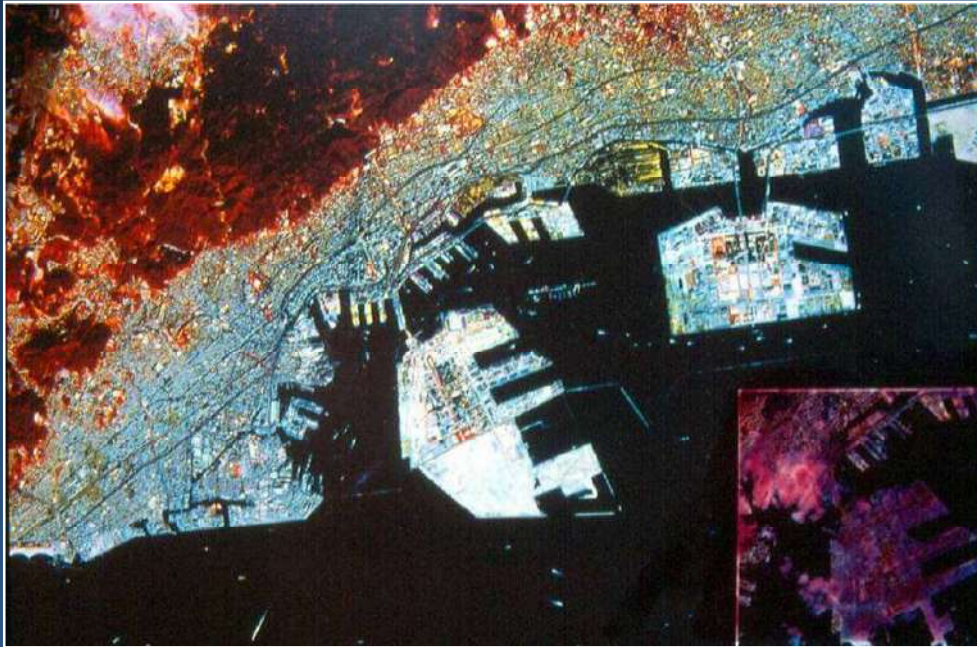
1・17～1・26





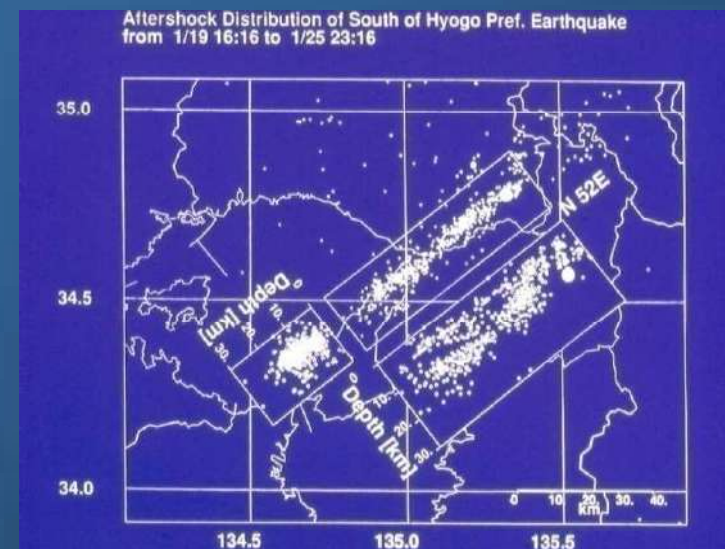
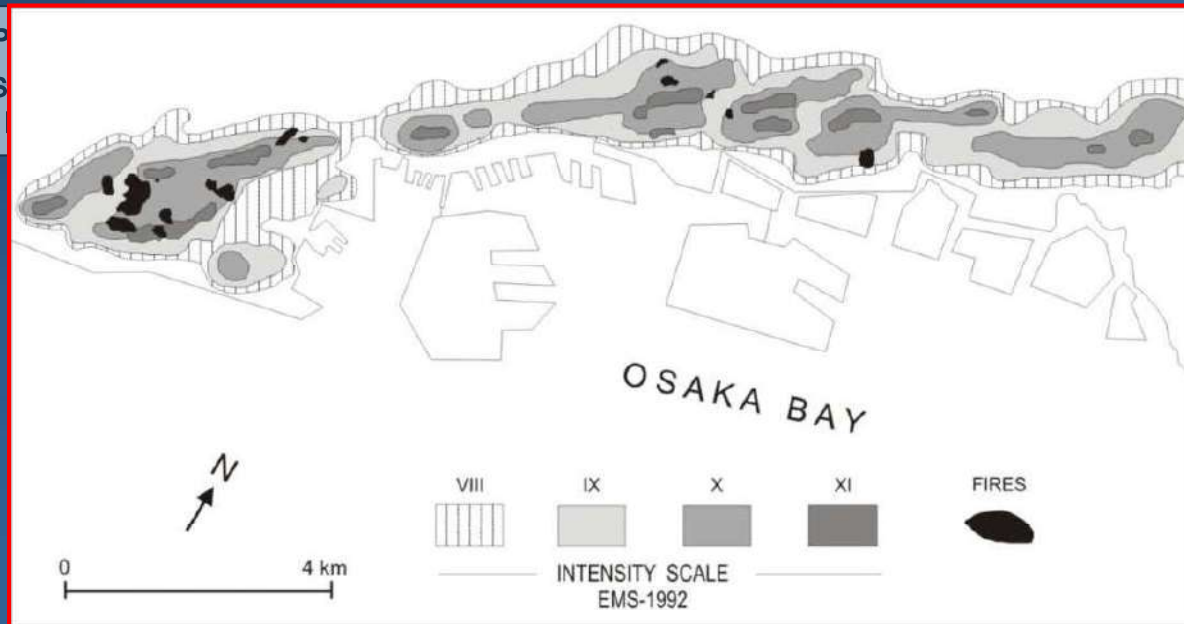


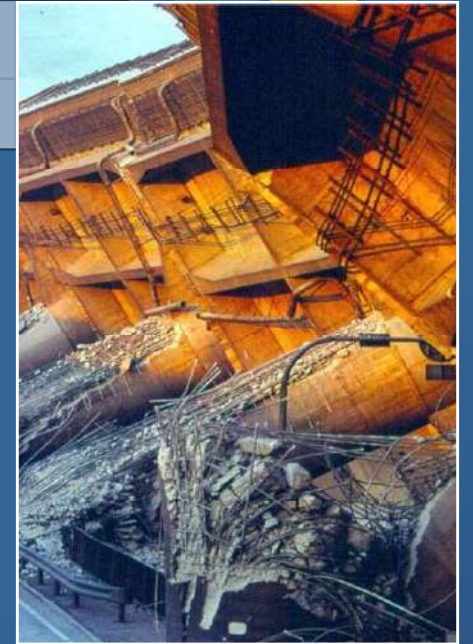
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OF ENVIRONMENTAL,
GEOSPATIAL & CLIMATE
SCIENCE



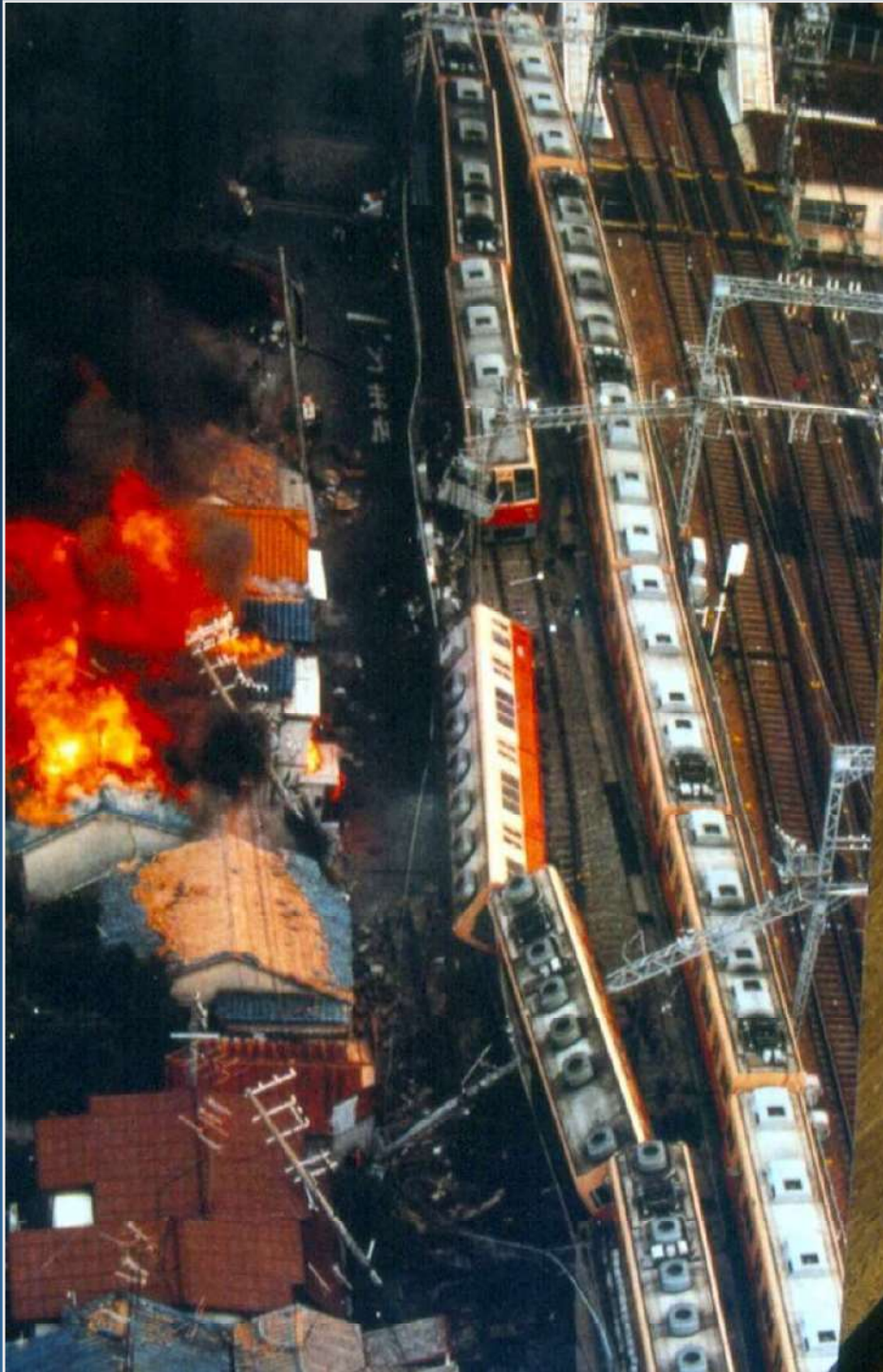






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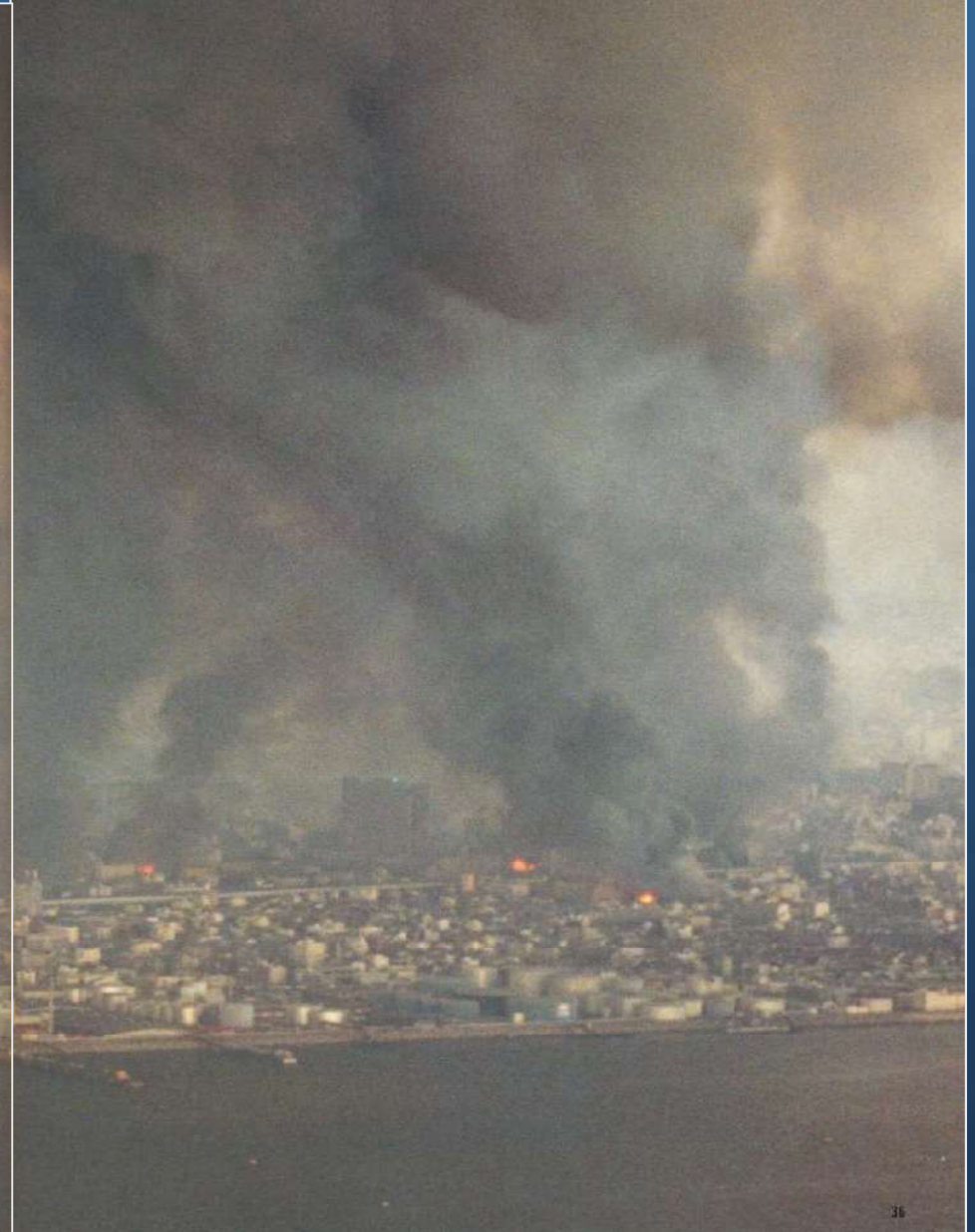




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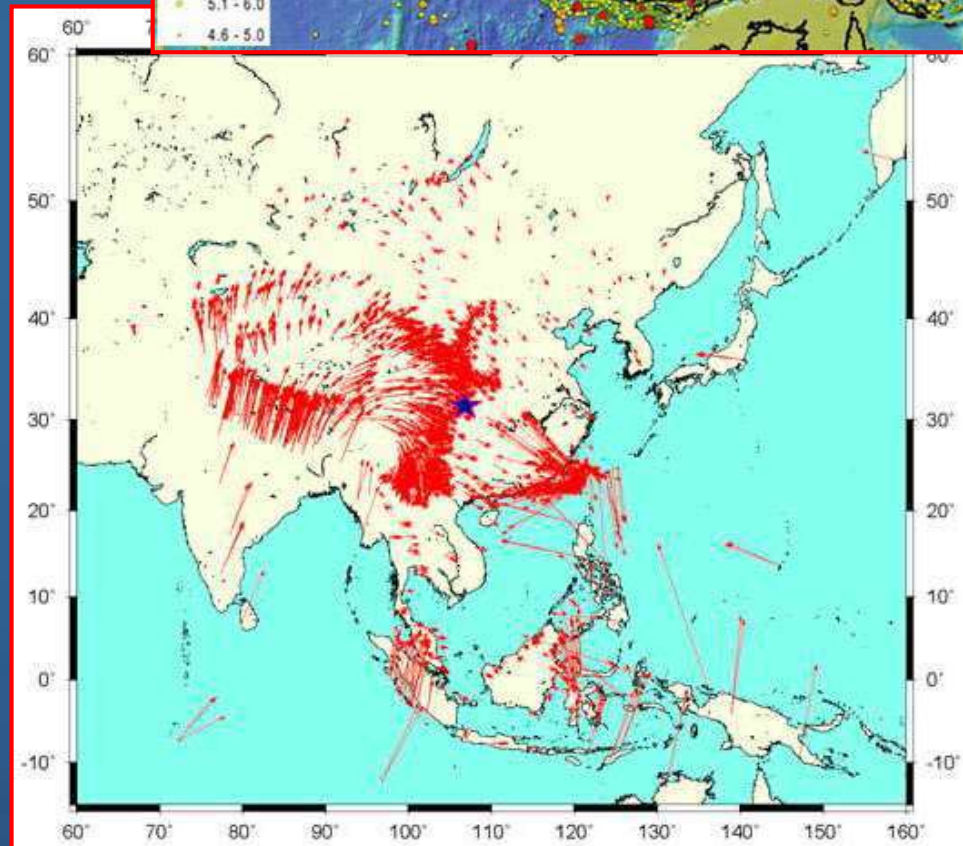
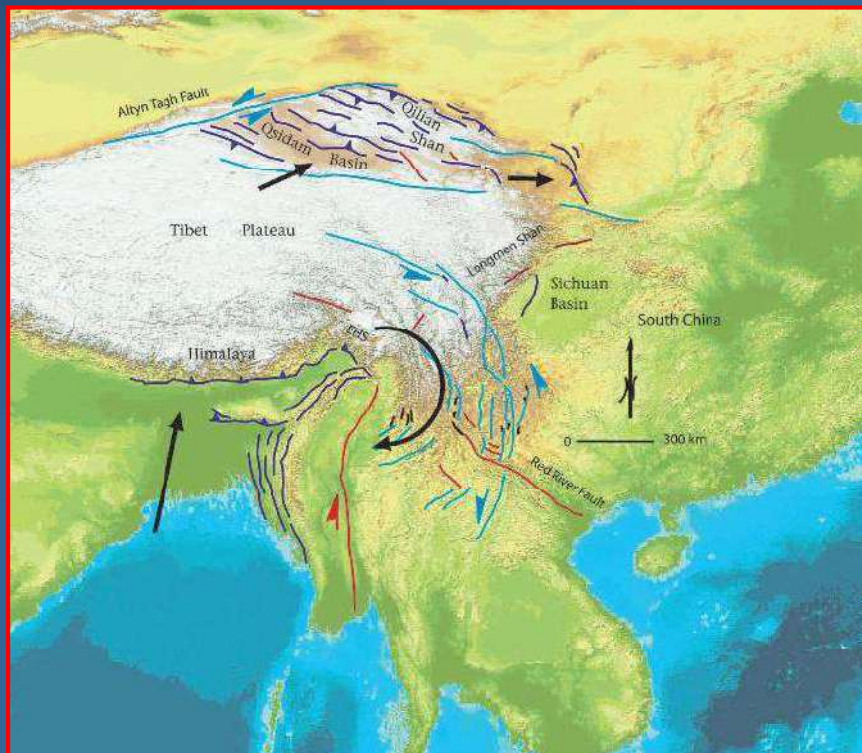
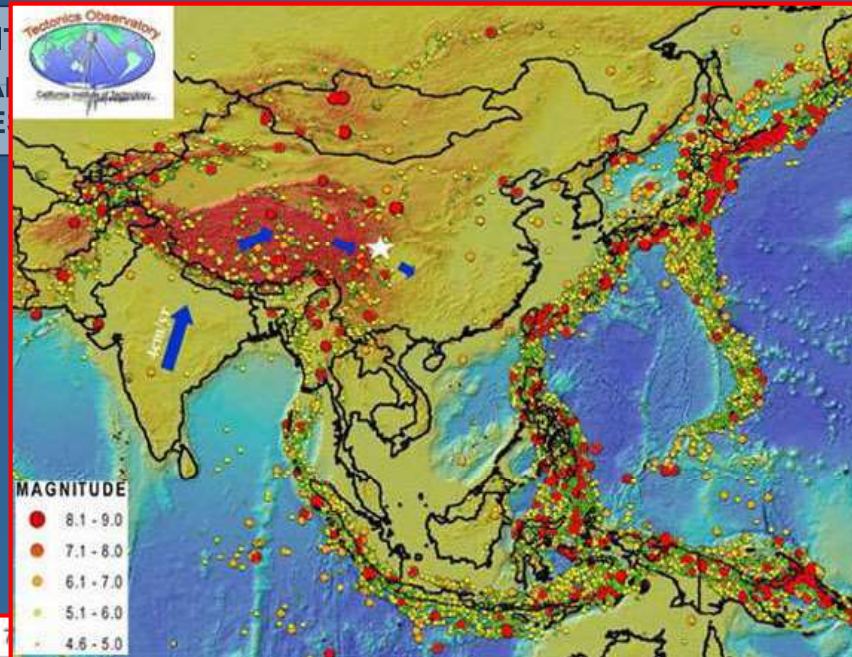
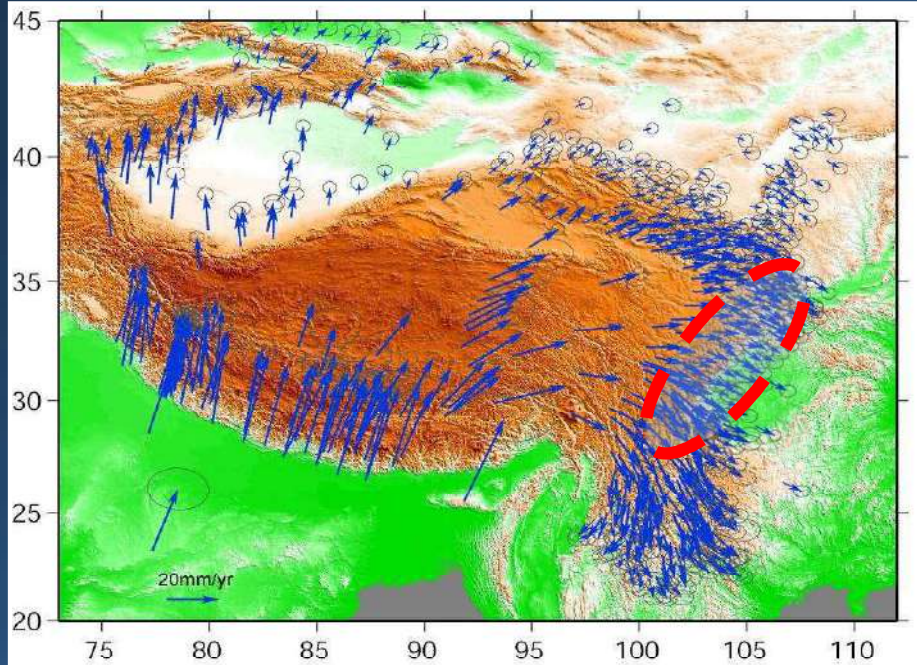
神戸沖上空から見た市街は立ち
上る黒煙につつまれていた (17
日午前11時15分)

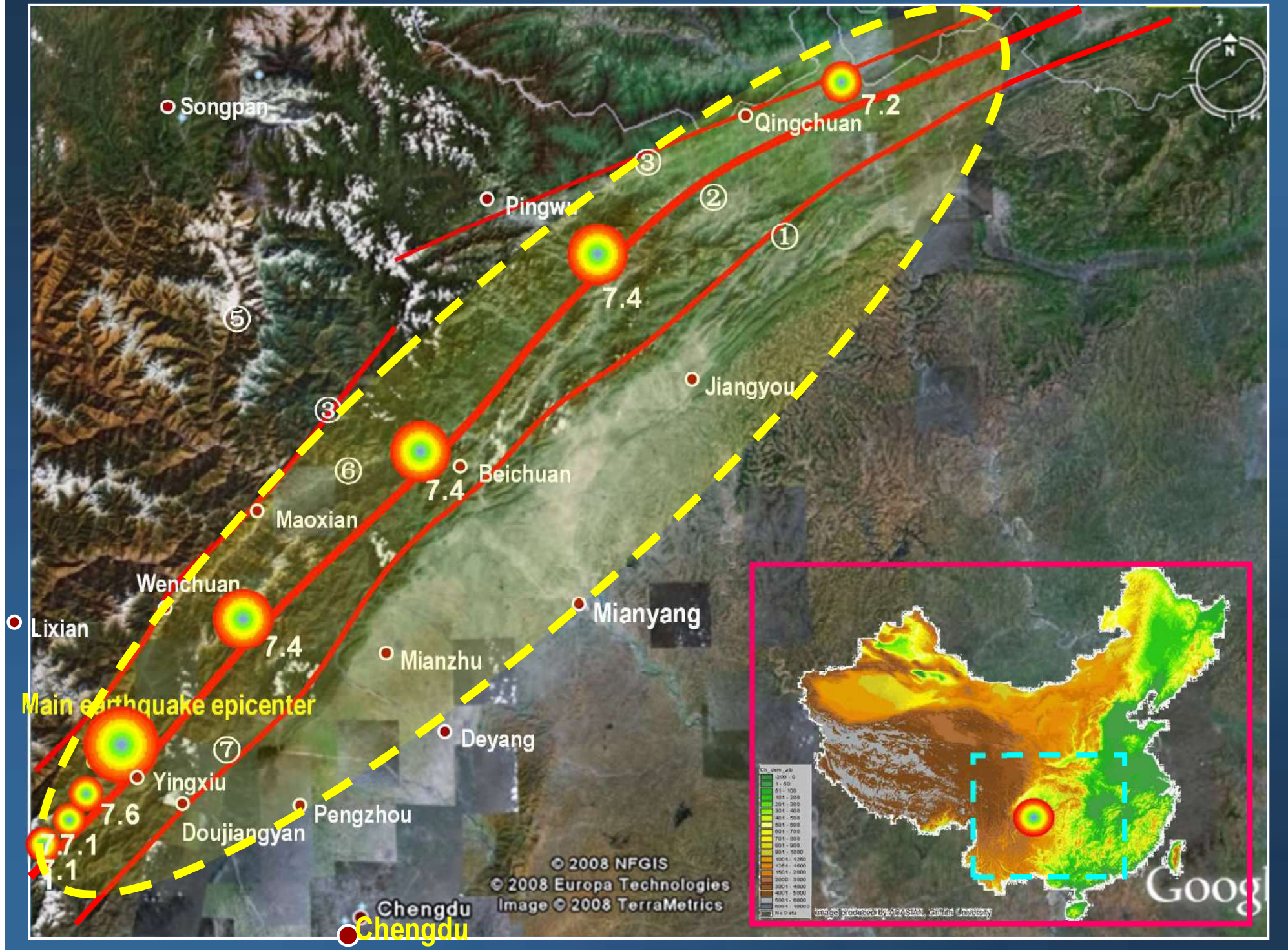


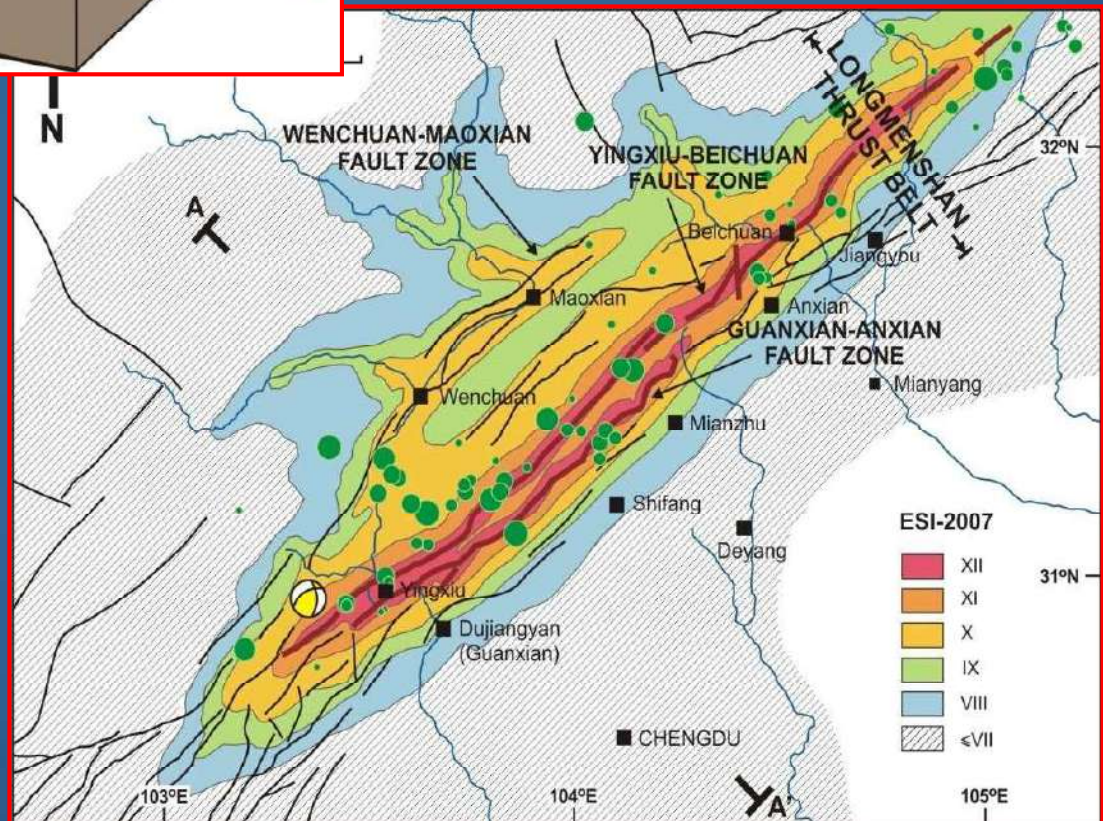
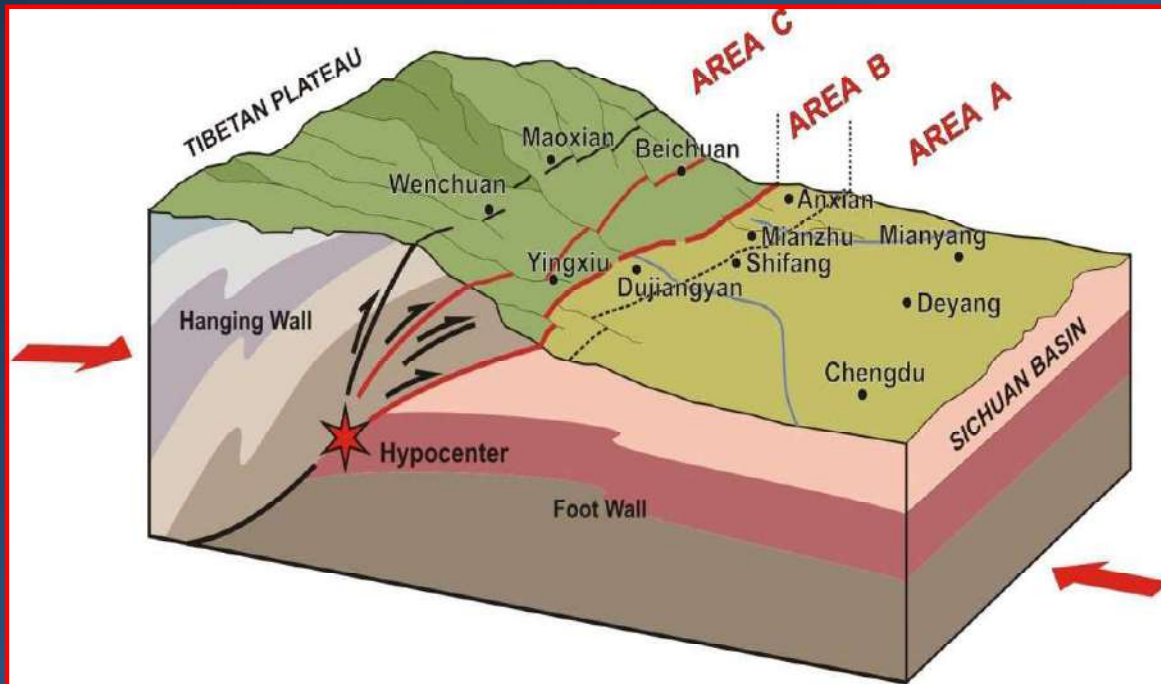


MACROSEISMICITY AND GEOLOGICAL EFFECTS OF THE WENCHUAN EARTHQUAKE (M_s 8.0R – 12 MAY 2008), SICHUAN, CHINA

GHENGDOU – CHINA 2008









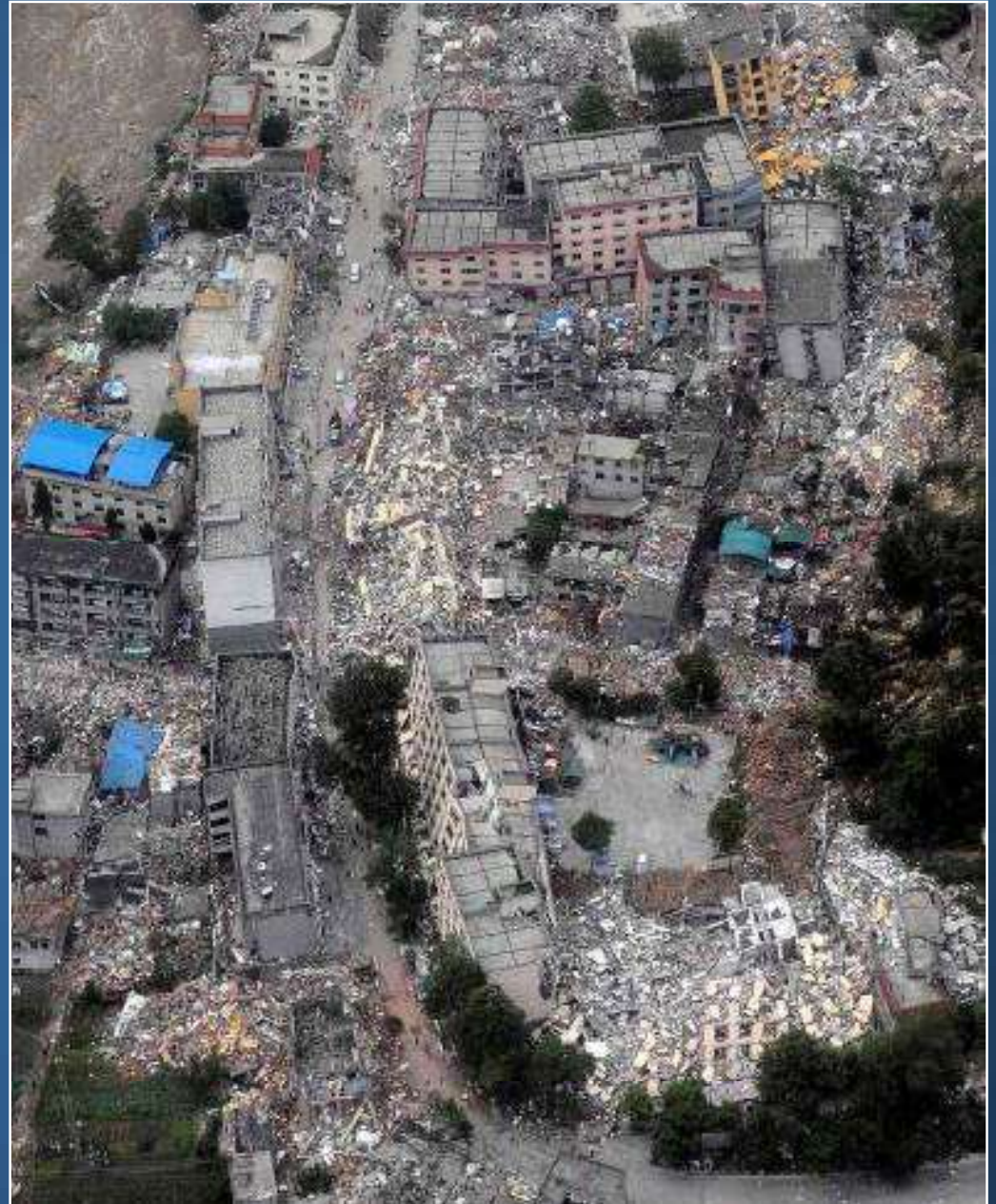


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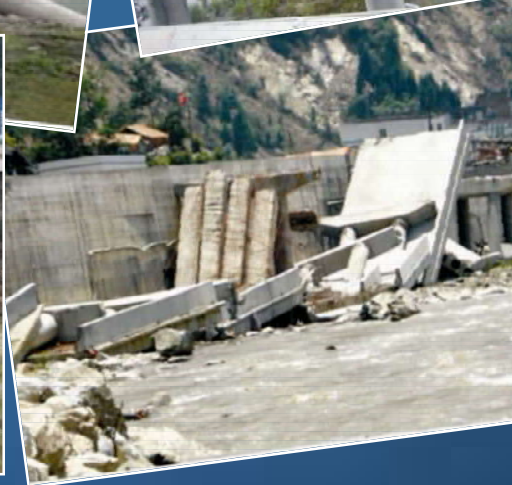
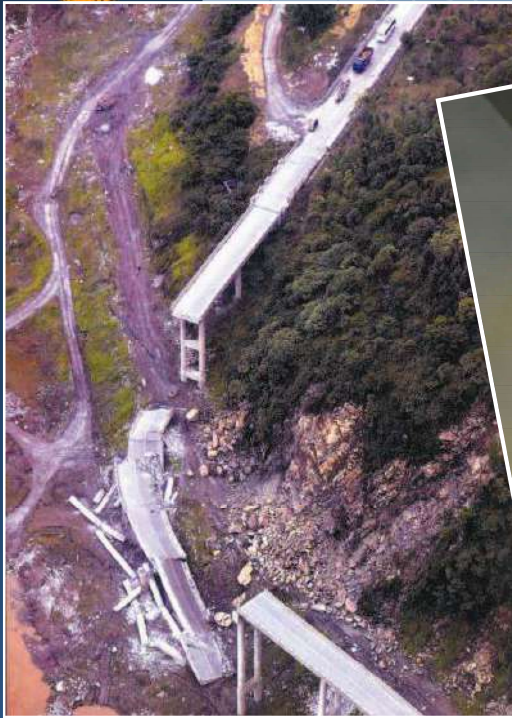




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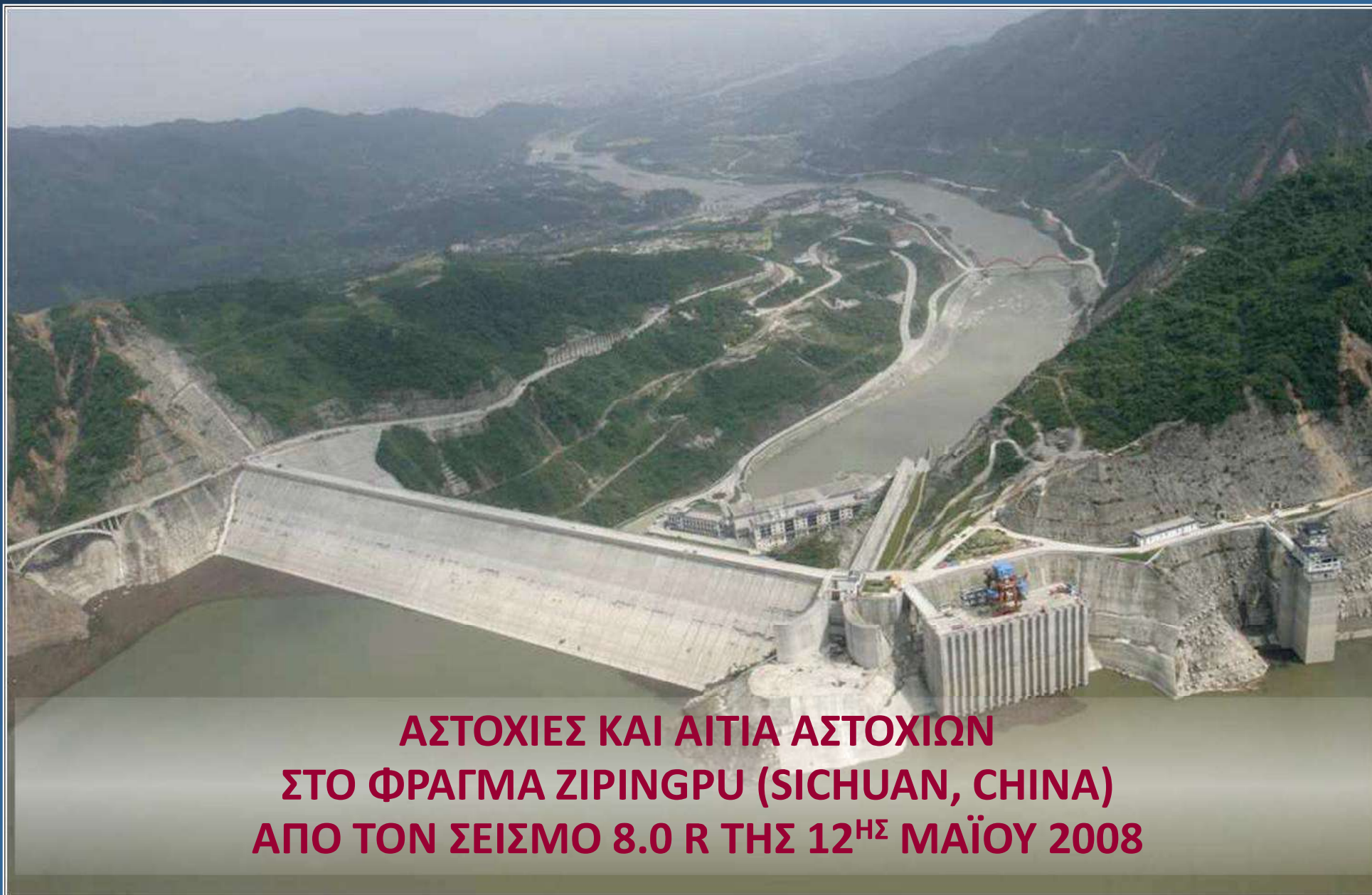


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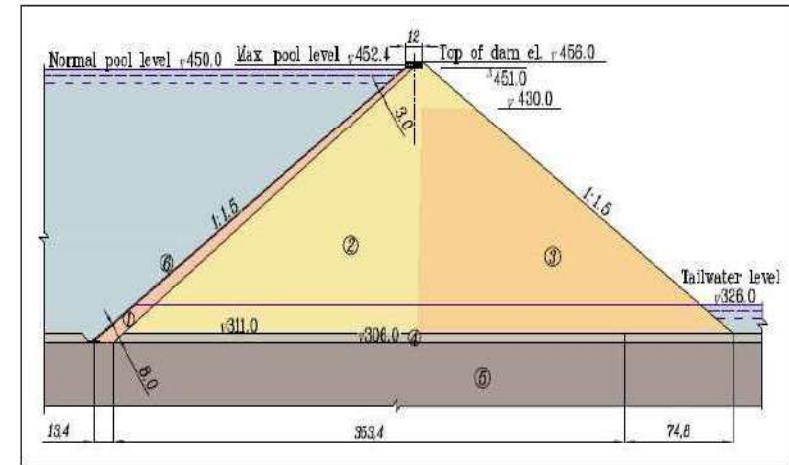




**ΑΣΤΟΧΙΕΣ ΚΑΙ ΑΙΤΙΑ ΑΣΤΟΧΙΩΝ
ΣΤΟ ΦΡΑΓΜΑ ZIPINGPU (SICHUAN, CHINA)
ΑΠΟ ΤΟΝ ΣΕΙΣΜΟ 8.0 R ΤΗΣ 12^{ΗΣ} ΜΑΪΟΥ 2008**



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1 – transition zone; 2 – rockfill (central embankment); 3 – rockfill (downstream embankment); 4 – weak rock;
5 – rock foundation; 6 – concrete slab.



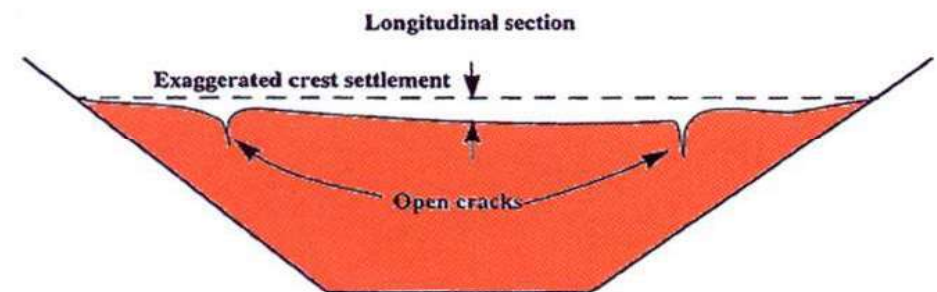
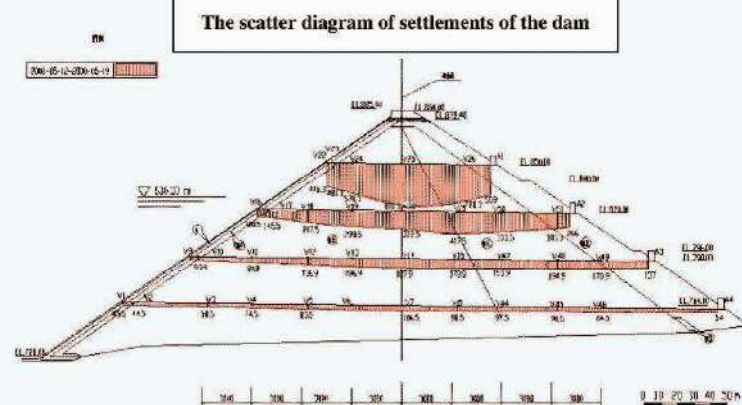


Fig. 4 Transverse cracks due differential settlements in an earth dam

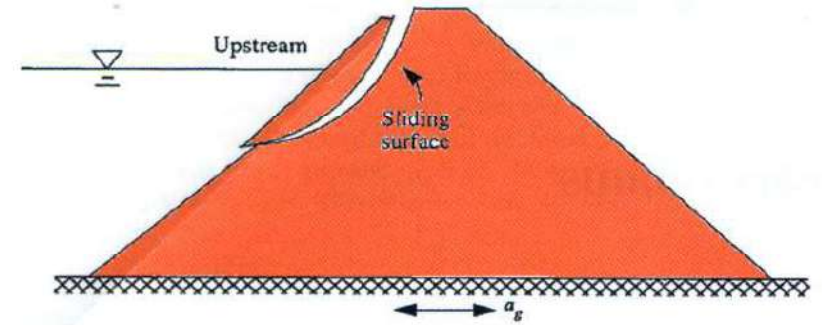
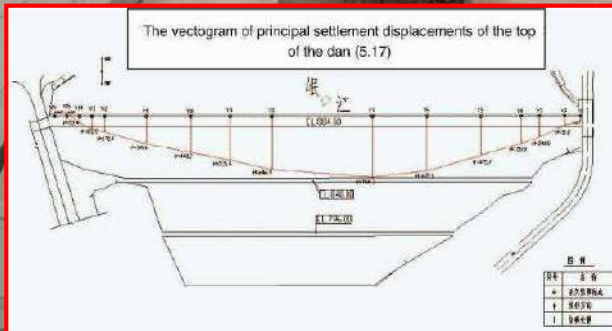


Fig. 1 Sliding failure of an earth dam

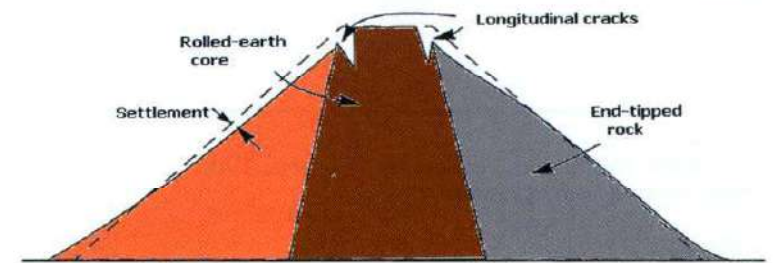
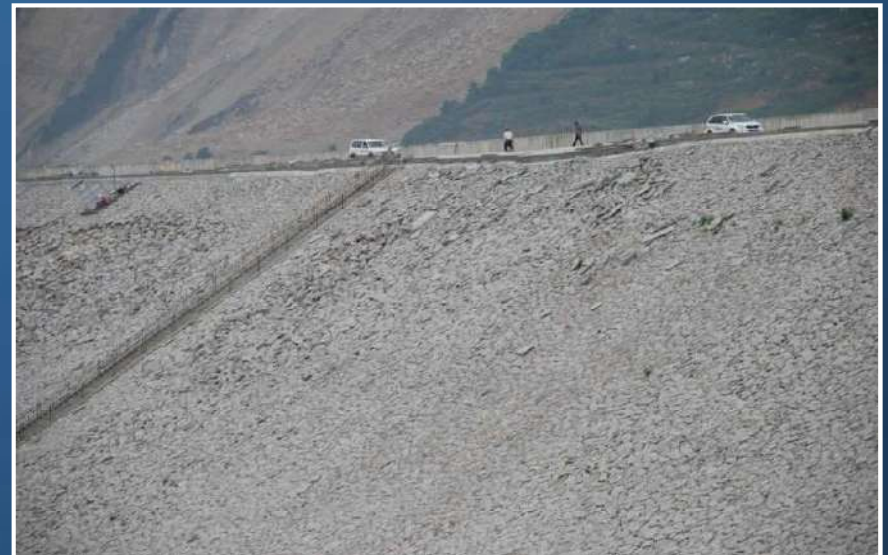
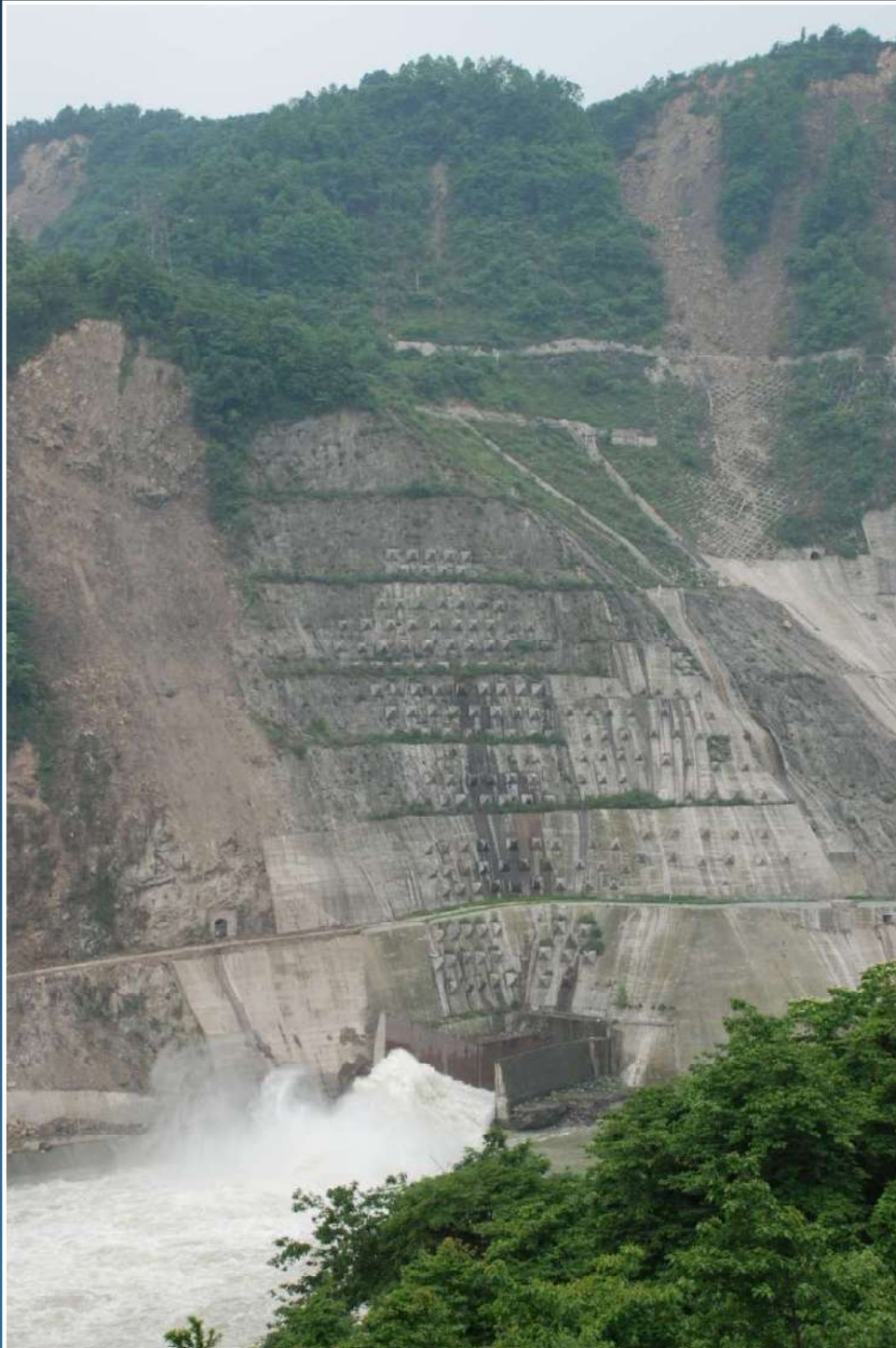


Fig. 3 Failure in terms of longitudinal cracks in an earth dams







Beichuan County town before the quake



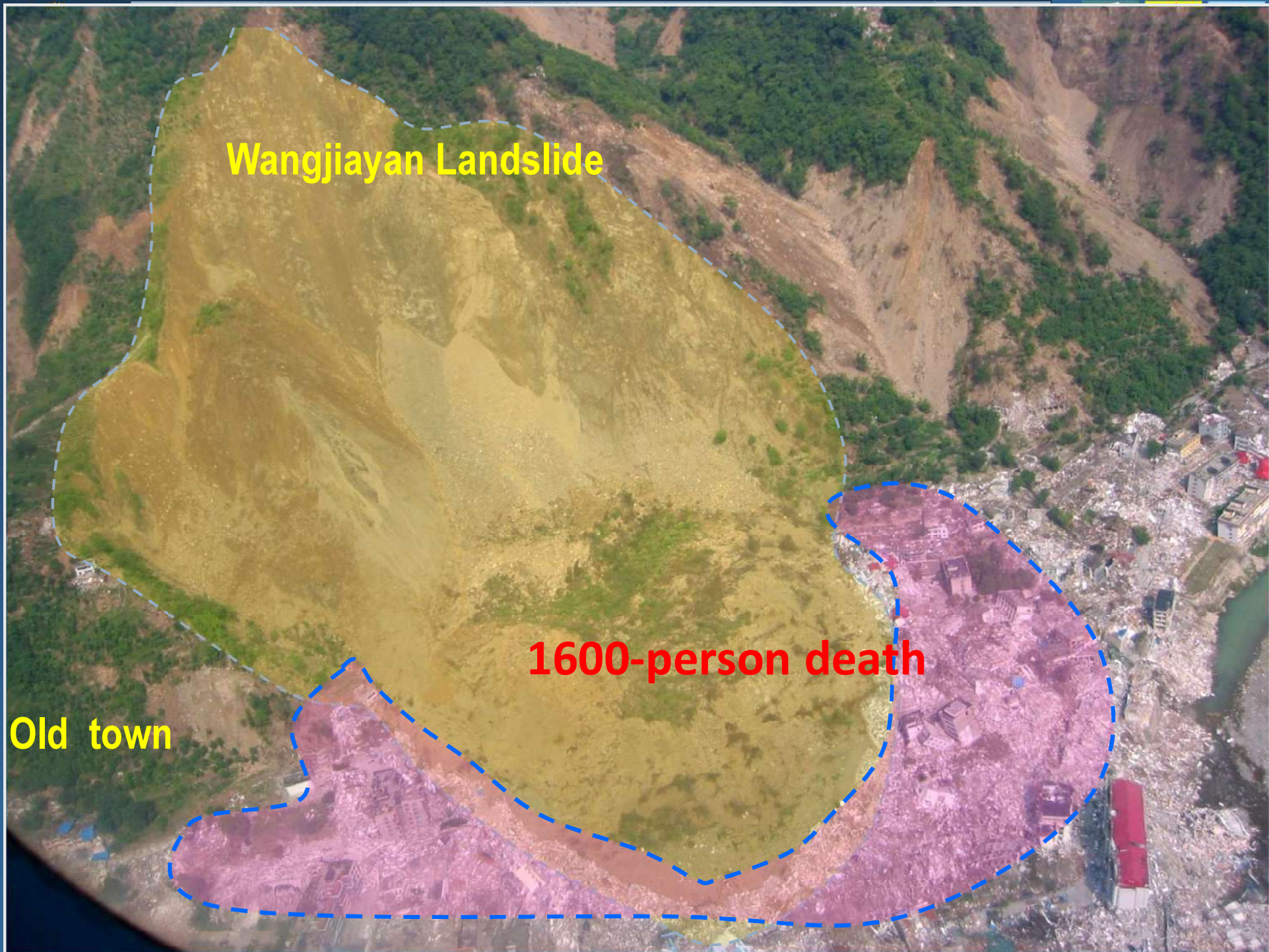


New town

**New beichuan middle
school Avalanches**

Old town

Wangjiayan landslide



Wangjiayan Landslide

1600-person death

Old town



**New Beichuan middle
school avalanches**

Deaths of 700 persons

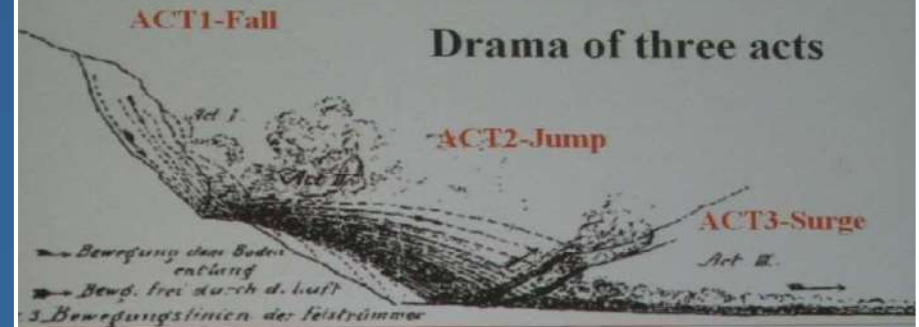


Loading comparison of rapid landslide with airplane (Coresearcher: Dr. Xing A. G.)



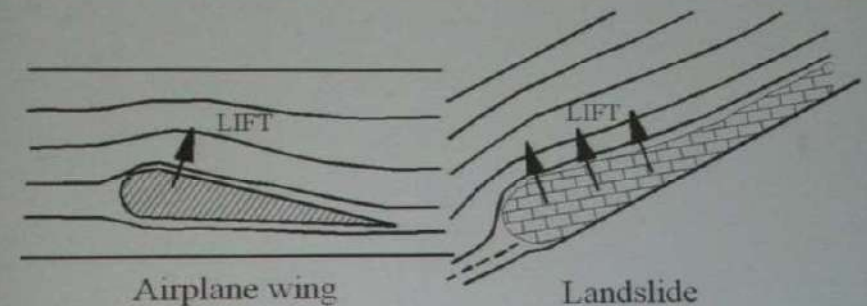
大型高速滑坡与飞机受力情况对比
(与邢爱国博士合作)

Similar case was described 126 years ago



Elm Sturzstrom (by Heim, 1882)
Catastrophic Debris Streams

Aerodynamic Comparison of airplane wing with rapid landslide (Copartner: Dr. Xing A. G.)



机翼和大型滑坡空气动力学剖面对比





HELLENIC REPUBLIC
National and Kapodistrian
University of Athens



THE 2016 CENTRAL ITALY EARTHQUAKE (AUGUST 24, Mw 6.2)

Dr. PANAYOTIS CARYDIS

PROFESSOR OF EARTHQUAKE
ENGINEERING
PROFESSOR EMERITUS

Dr. EFTHYMIS LEKKAS

PROFESSOR OF DYNAMIC TECTONIC
APPLIED GEOLOGY & NATURAL DISASTER
MANAGEMENT
PRESIDENT OF THE EARTHQUAKE
PLANNING & PROTECTION
ORGANIZATION

SPYRIDON MAVROULIS

MSC GEOLOGIST
PHD CANDIDATE
NATIONAL & KAPODISTRIAN
UNIVERSITY OF ATHENS

AMATRICE



Photos taken on 2016.08.26



PESCARA DEL TRONTO



Photo taken on 2016.08.27 after two aftershocks with Mw 4.3 and 4.8 respectively

AMATRICE



*Photo taken on
2016.08.25
before an Mw 4.3
aftershock*



*Photo taken on
2016.08.25
during an Mw 4.3
aftershock*



*Photo taken on
2016.08.26
after an Mw 4.8
aftershock*





The September 2017 M 8.2 Chiapas and M 7.1 Puebla-Morelos earthquakes in Mexico



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ENVIRONMENTAL, DISASTER AND CRISES MANAGEMENT



SEPTIEMBRE
19 DE 1985



