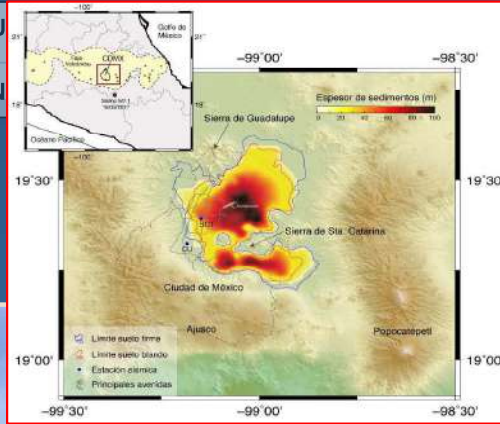
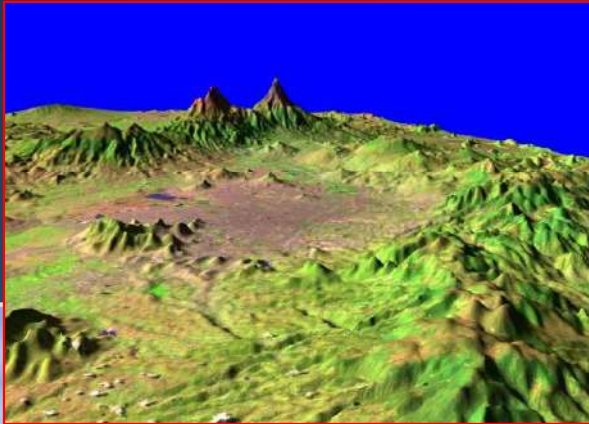






Unknown creator, the foundation of Tenochtitlan,
Codex Mendoza, 1542.

© Bodleian Libraries, University of Oxford

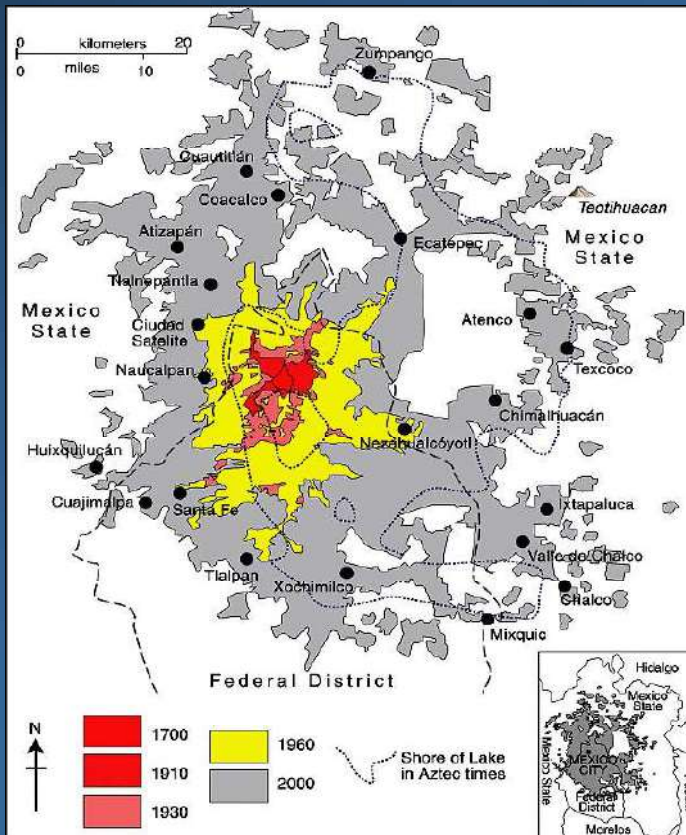
an the Capital of the Aztec Empire



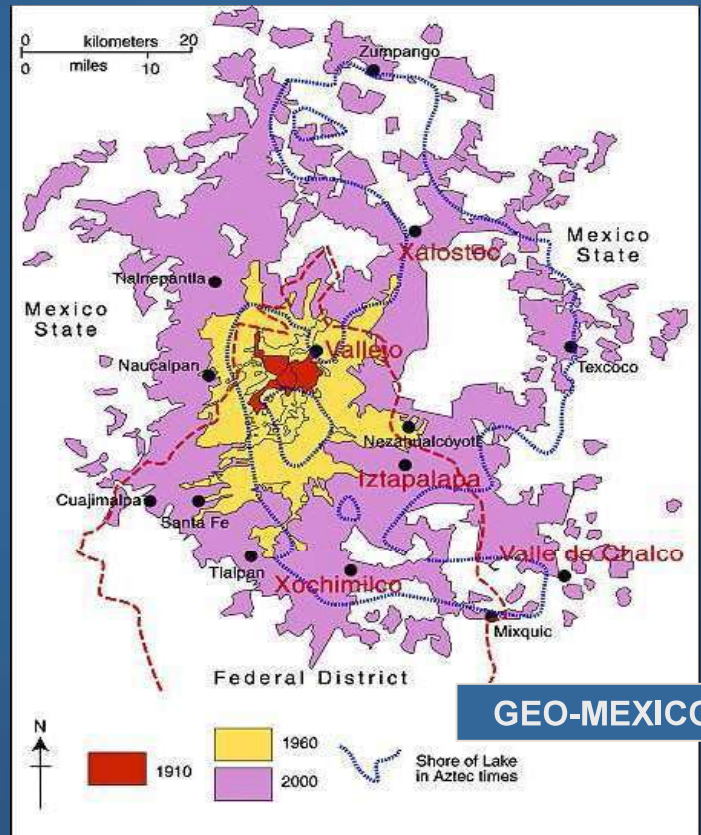
Unknown creator, map of Tenochtitlan (at right) and schema of the Gulf Coast (at left), from Hernando Cortés's Second Letter, *Praeclara Fernandi Cortesii de Noua Maris Oceani Hispania Narratio* . . . (Nuremberg, 1524). Courtesy of the Newberry Library, Chicago, Ayer 655.51.C8 1524d.



Spatial growth of Mexico City Metropolitan Area



Sites in Mexico Valley with high incidence of ground cracks



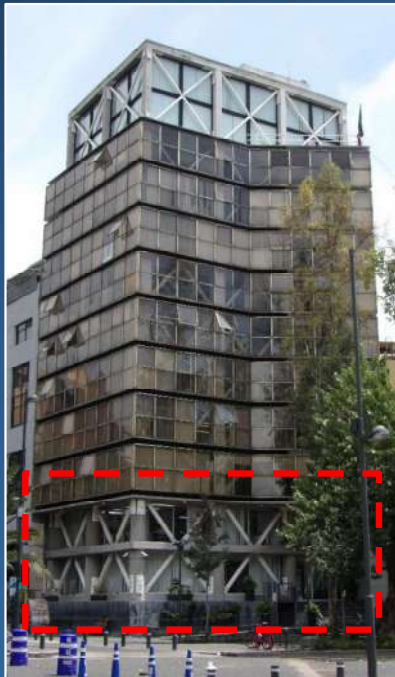


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Photos credit to Lekkas, Mavroulis, Karvdis



Reinforcement of buildings in the city of Mexico after the September 19, 1985 M 8.1 Michoacán earthquake (1/3)





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Damage to reinforced concrete buildings due to the M 8.2 Chiapas earthquake

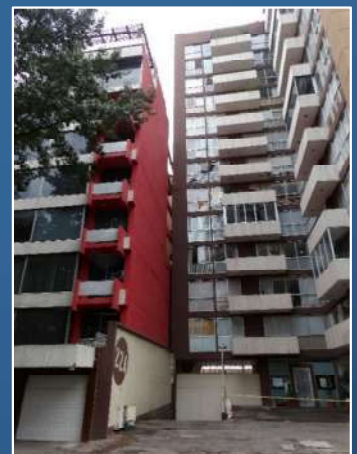




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Building pounding damage due to the M 7.1 earthquake



*Photos credit to
Lekkas, Mavroulis,
Carydis*



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Damage to churches due to the September 2017 M 7.1 Puebla-Morelos earthquake





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Heavy structural damage to reinforced buildings in Mexico City due to the M 7.1 earthquake

Photos credit to Lekkas, Mavroulis, Carydis



Photo credit: Francisco Caballero Gout via AP





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Photos credit to Lekkas, Mavroulis, Karditis



CIVIL PROTECTION IN MEXICO – Following the evacuation route to the “Punto de Reunion” after the seismic alert for the M 6.1 Oaxaca aftershock on September 23, 2017 in Mexico City



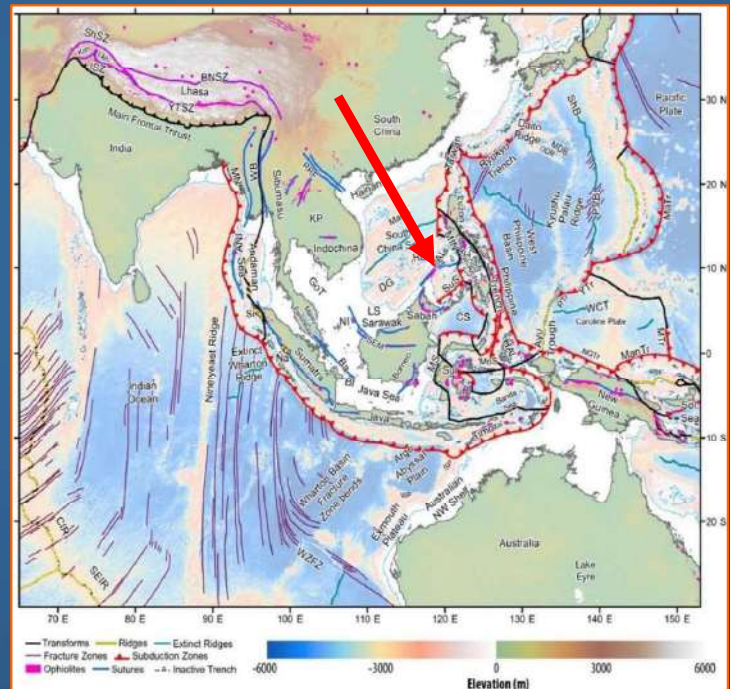
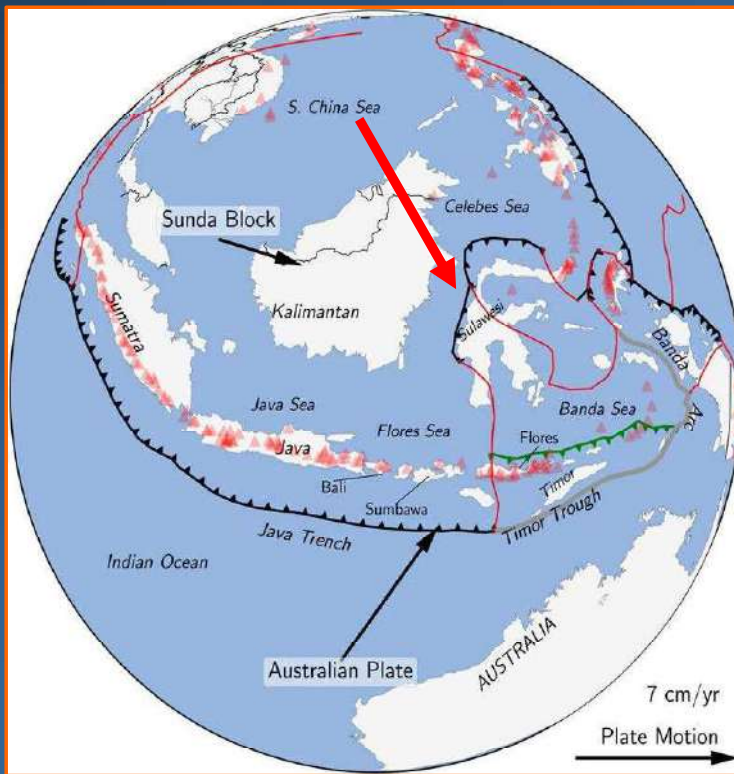


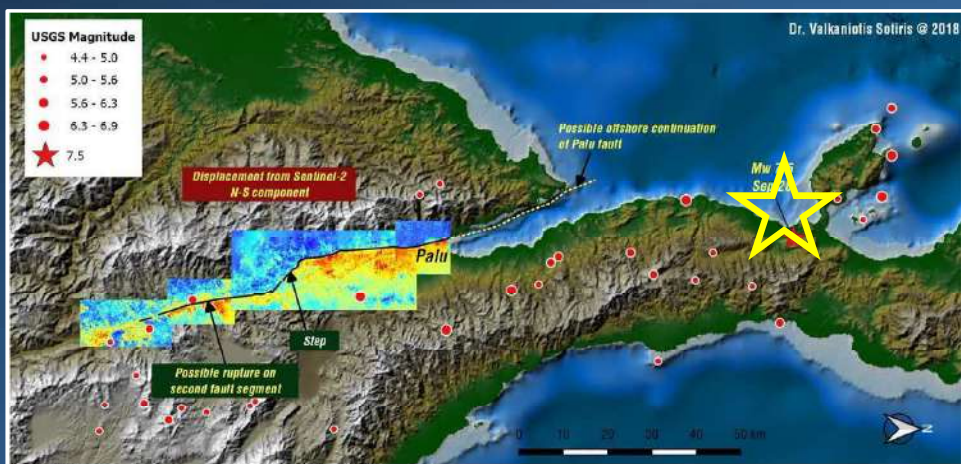
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Active tectonics of the Indonesian Region





Dr. V. Kaniotis, 2018
Displacement map of Palu fault segment
N-S displacement component in meters
M 6 earthquake, Sep 28 2018
Image Correlation using MicMac
Imagery source: ©Planet 2018

Displ
N-S (m)
-3
-2
-1
0
1
2
3
4
5
6

0 2.5 5 7.5 10 km

Palu

Teluk Palu

planet

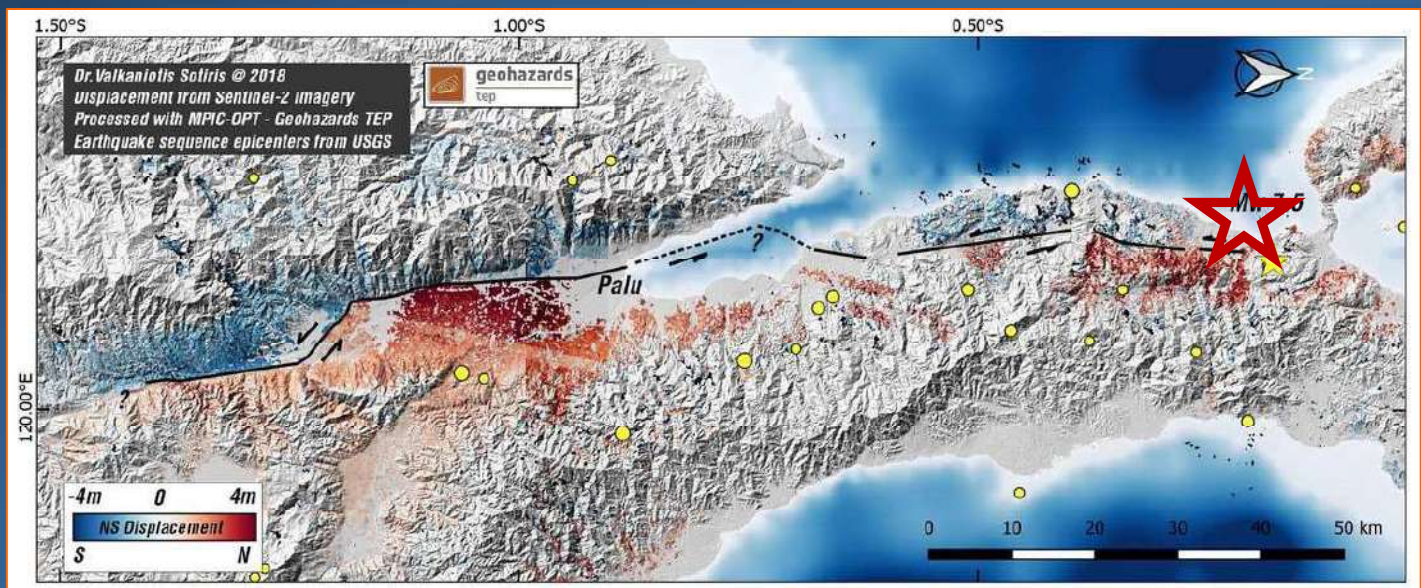
Displacement maps of Palu fault segment

<https://twitter.com/SotisValkan/status/1047165698542383104>

<https://twitter.com/SotisValkan/status/1046818189349462016>



Displacement maps of Palu fault segment



Displacement from Sentinel2 Copernicus EU image frames for the whole length of the Palu earthquake sequence. There is displacement on the northern part (partially clouded) as reported from InSAR results. Dotted faults are inferred.

<https://twitter.com/SotisValkan/status/1047515941570007042>



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Coseismic surface rupture in Palu City

photos by Lekkas, Carydis, Mavroulis



The deformed asphalt pavement as well as the adjacent damaged buildings along with the perimeter walls and railings reveal left lateral offset which is in coincidence with the causative Palu-Koro strike-slip fault



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Damage assessment of 2018 Sulawesi Island Earthquake and Tsunami
Palu as of 30/09/2018







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Arkham Babu Rahmat Mosque





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Building damage induced by soil liquefaction and lateral spreading





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**The December 2018
volcano-triggered
tsunami in
Krakatau complex (Sunda
Strait, Indonesia)**

Professor Efthymis Lekkas

PhD c. Spyridon Mavroulis

Em. Professor Panayotis Carydis

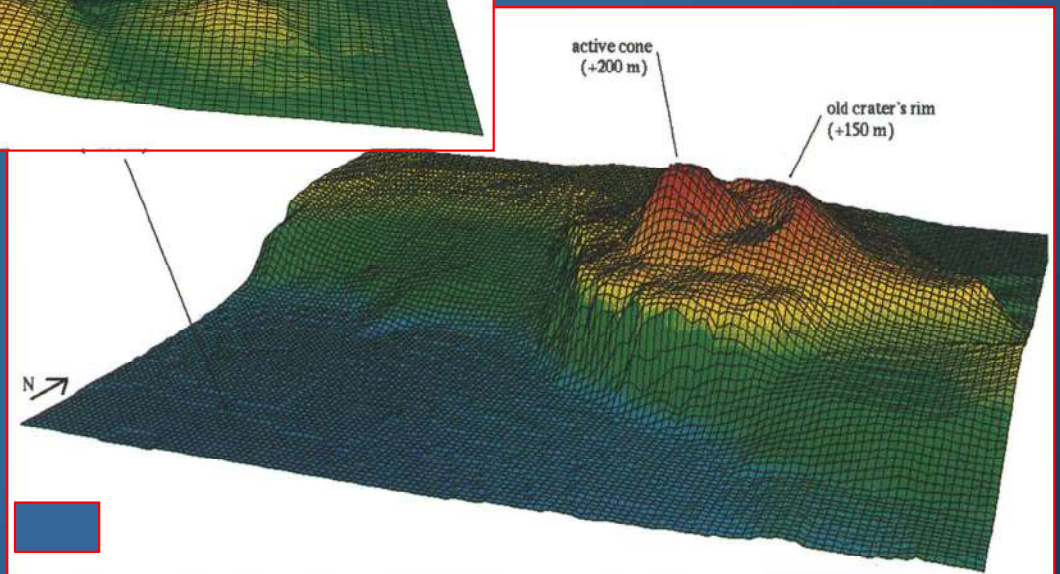
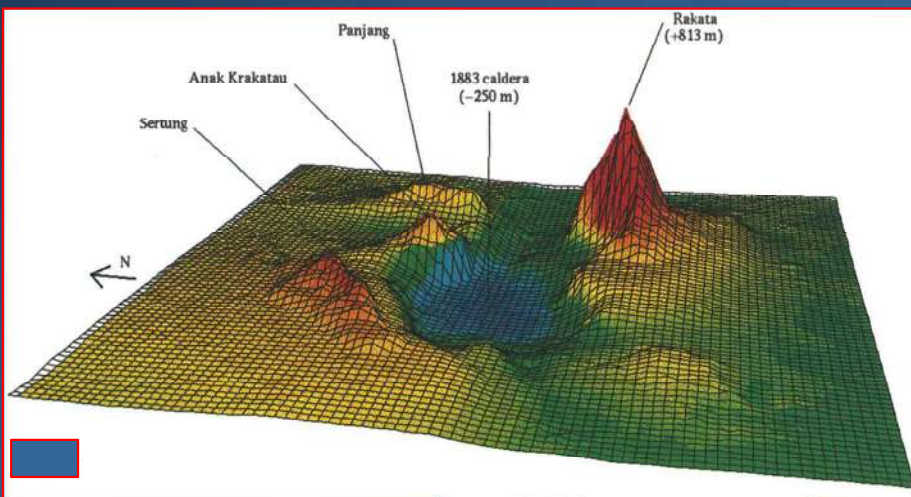
PhD c. Dimitrios Milios



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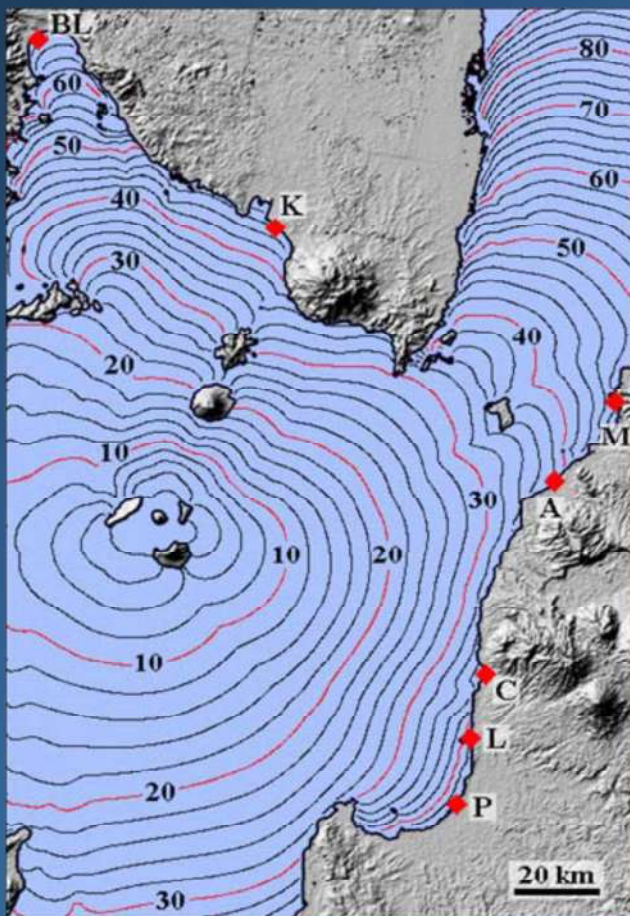


THREE DIMENSIONAL NUMERICAL MODEL OF KRAKATAU VOLCANIC COMPLEX





SIMULATION OF THE SUDDEN COLLAPSE OF ANAK KRAKATAU INTO THE 1883 CALDERA



Numerical simulation of the sudden collapse of Anak Krakatau Volcano into the 1883 caldera showed that all the coasts around the Sunda Strait could potentially be affected by waves of more than 1.0 m in less than 1 h after the event.

First wave travel time (expressed in min) for the first 90 min of simulation. Black lines are at 2 min intervals. Main coastal cities are shown by red diamonds. The impact of the sudden increase in water depth westwards from the Krakatau Archipelago is clearly seen, the waves being more rapid than those crossing the shallow strait. BL: Bandar Lampung; K: Kalianda; M: Merak; A: Anyer; C: Carita; L: Labuhan; P: Panimbang.

Based on eyewitnesses, the December 2018 tsunami arrived at the coast of western Java 24 minutes after an eruption of Anak Krakatau volcano.

From *Giachetti et al (2012)*

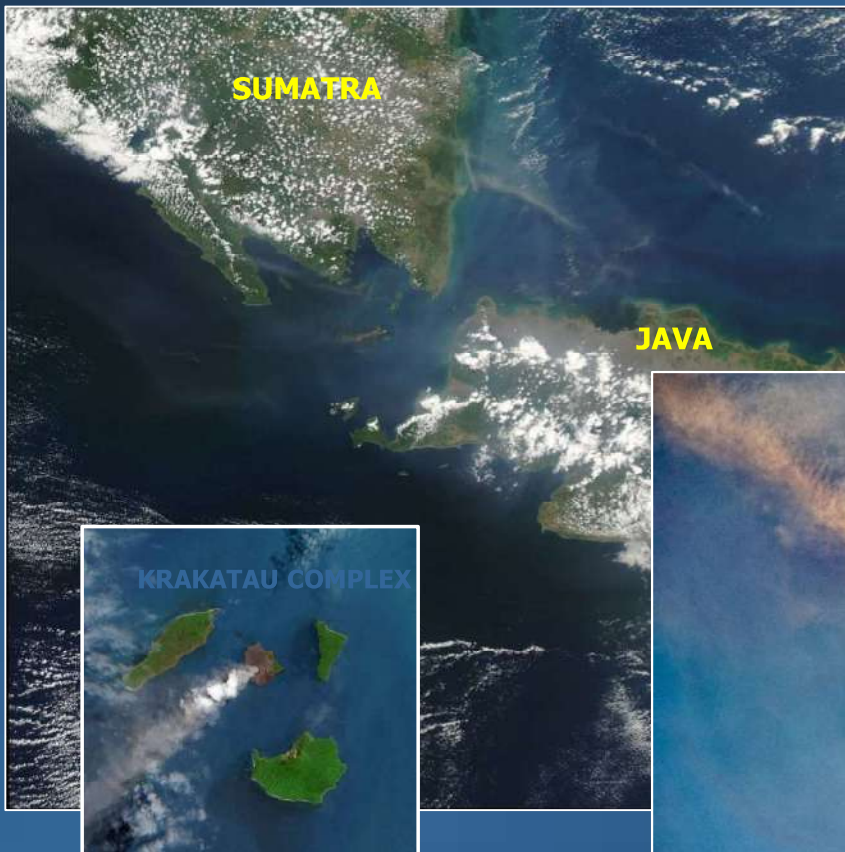
Geological Society, London, Special Publications, 361



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EVOLUTION OF THE ANAK KRAKATAU BEHAVIOR OVER THE PAST 3 MONTHS



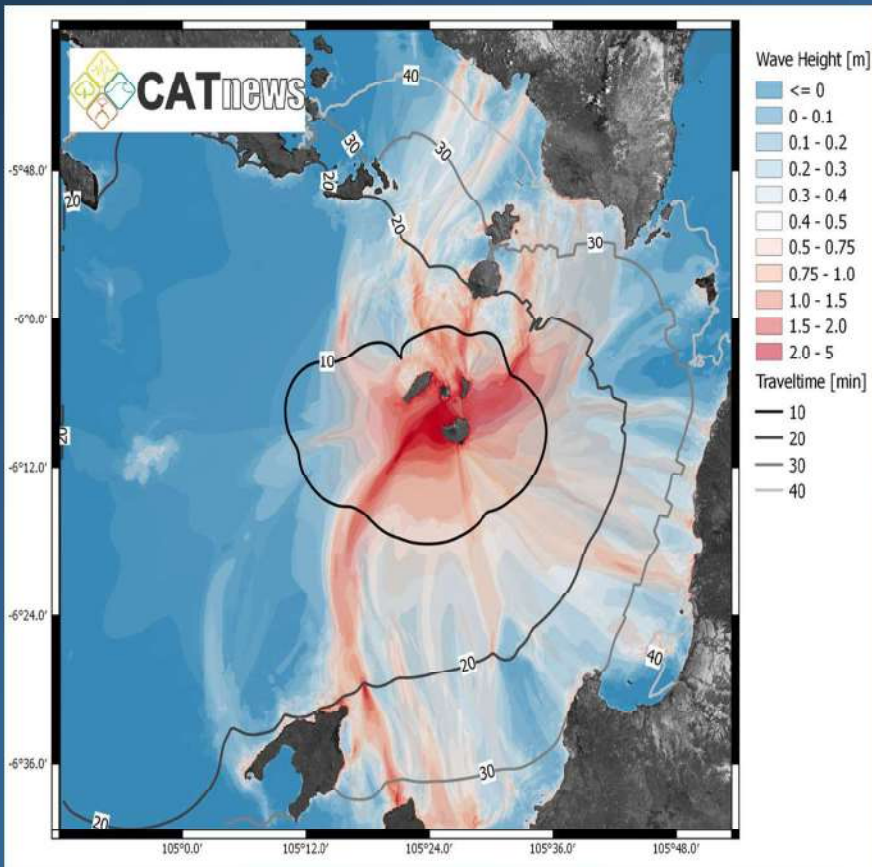
Activity at the Indonesian volcano Anak Krakatau is not unusual; eruptions have occurred sporadically over the past few decades. It is somewhat unusual, however, for satellites to get cloud-free views, as they did in September 2018. Local sources reported that this eruption has been ongoing since June 19, 2018. Ash plumes have been observed rising to altitudes up to 1.8 km (6,000 ft). The plume was also visible from the International Space Station. European Space Agency astronaut Alexander Gerst snapped this photograph of the plume on September 24.



<https://visibleearth.nasa.gov/view.php?id=92806>



IMPACT OF THE DECEMBER 2018 INDONESIA TSUNAMI



Scars and marks on trees from tsunami in Carita beach (western Java)



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IMPACT OF THE VOLCANO-TRIGGERED TSUNAMI ON REINFORCED CONCRETE BUILDINGS





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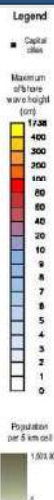
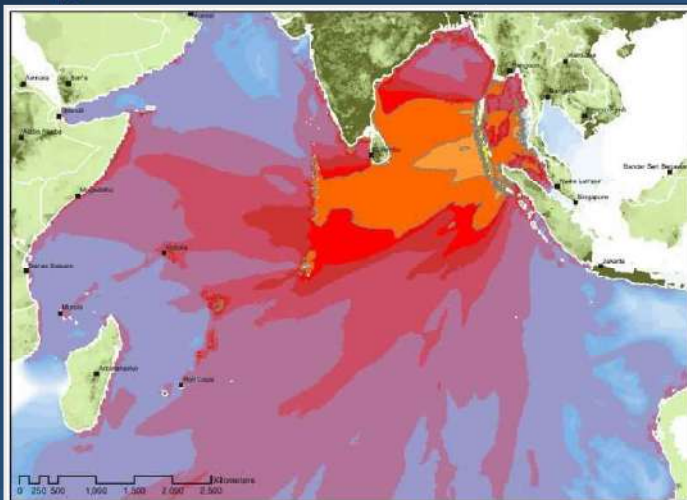


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**Ο ΣΕΙΣΜΟΣ 9,0 R
ΚΑΙ ΤΑ ΘΑΛΛΑΣΙΑ ΣΕΙΣΜΙΚΑ ΚΥΜΑΤΑ
ΤΗΣ 26 ΔΕΚ 2004 ΣΤΟΝ ΙΝΔΙΚΟ ΩΚΕΑΝΟ**

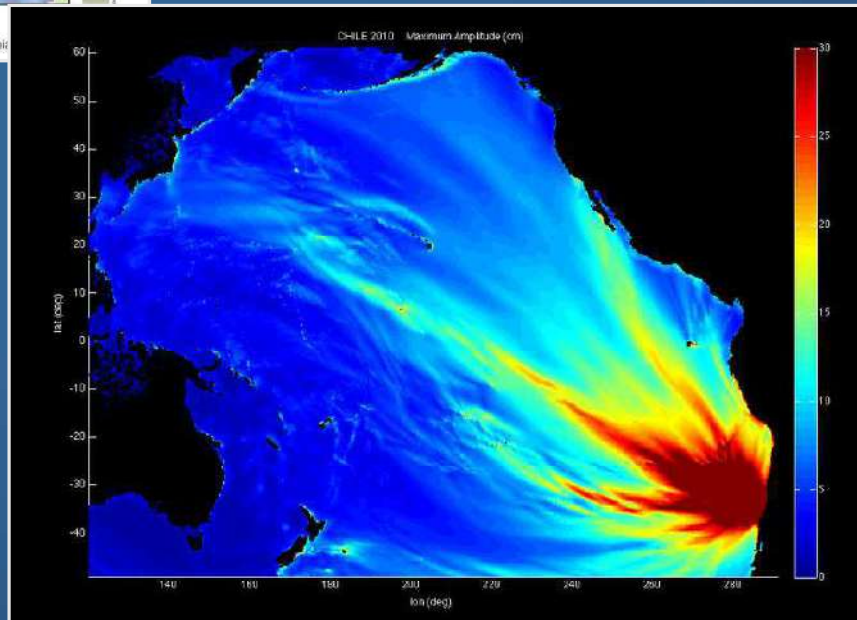
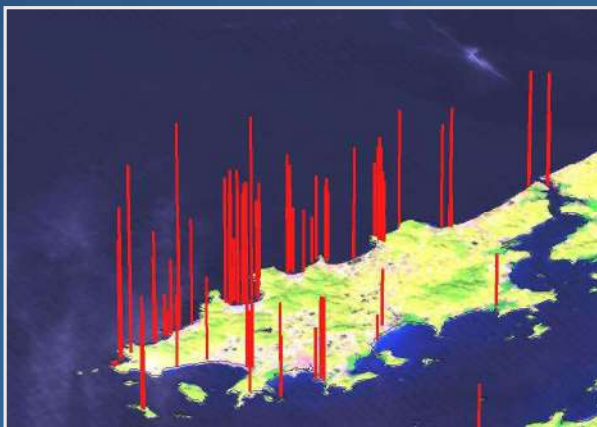
ΑΘΗΝΑ 2005



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Χάρτης του Ινδικού ωκεανού με την κατανομή του ύψους που έφθασε το τσουνάμι. (Πηγή: UN – NOAA – Columbia)





HENS
SEMENT

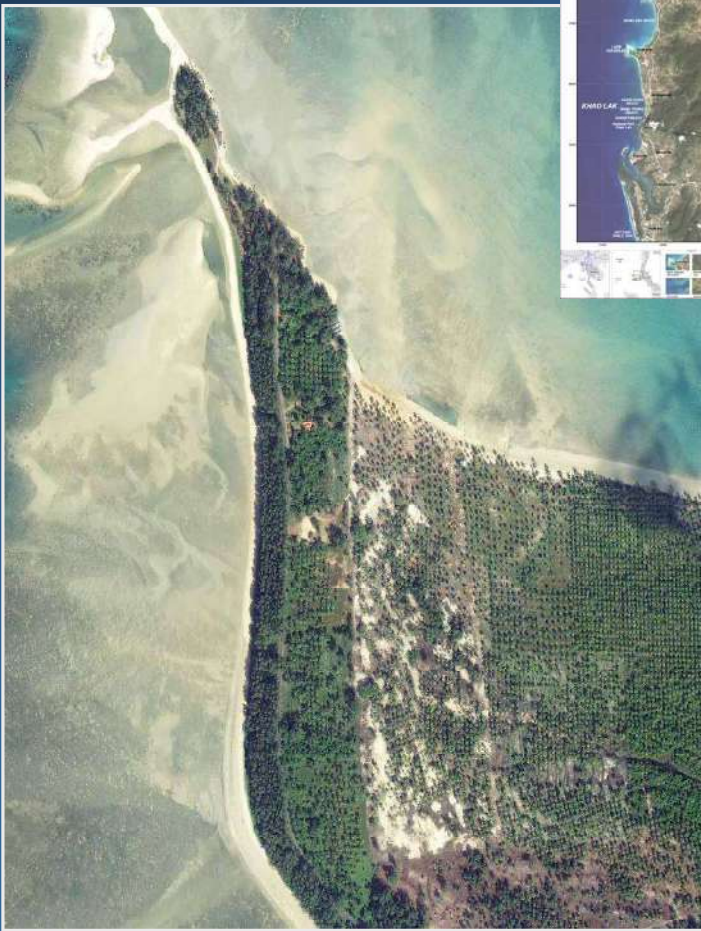




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SCIENCE & TECHNOLOGY



ATHENS
MANAGEMENT





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JAPAN 11-3-2011



**EARTHQUAKE Mw 9.0, TSUNAMI XII_{ITIS-2012},
FUKUSHIMA DAIICHI N.P.P.
MEGA-NATECH ACCIDENT INES 7.**

LEKKAS E., ANDREADAKIS E., KOSTAKI I., KAPOURANI E.

GREAT NORTH JAPAN EARTHQUAKE AND TSUNAMI

平成23年3月11日東北地方太平洋沖地震

ATHENS 2012

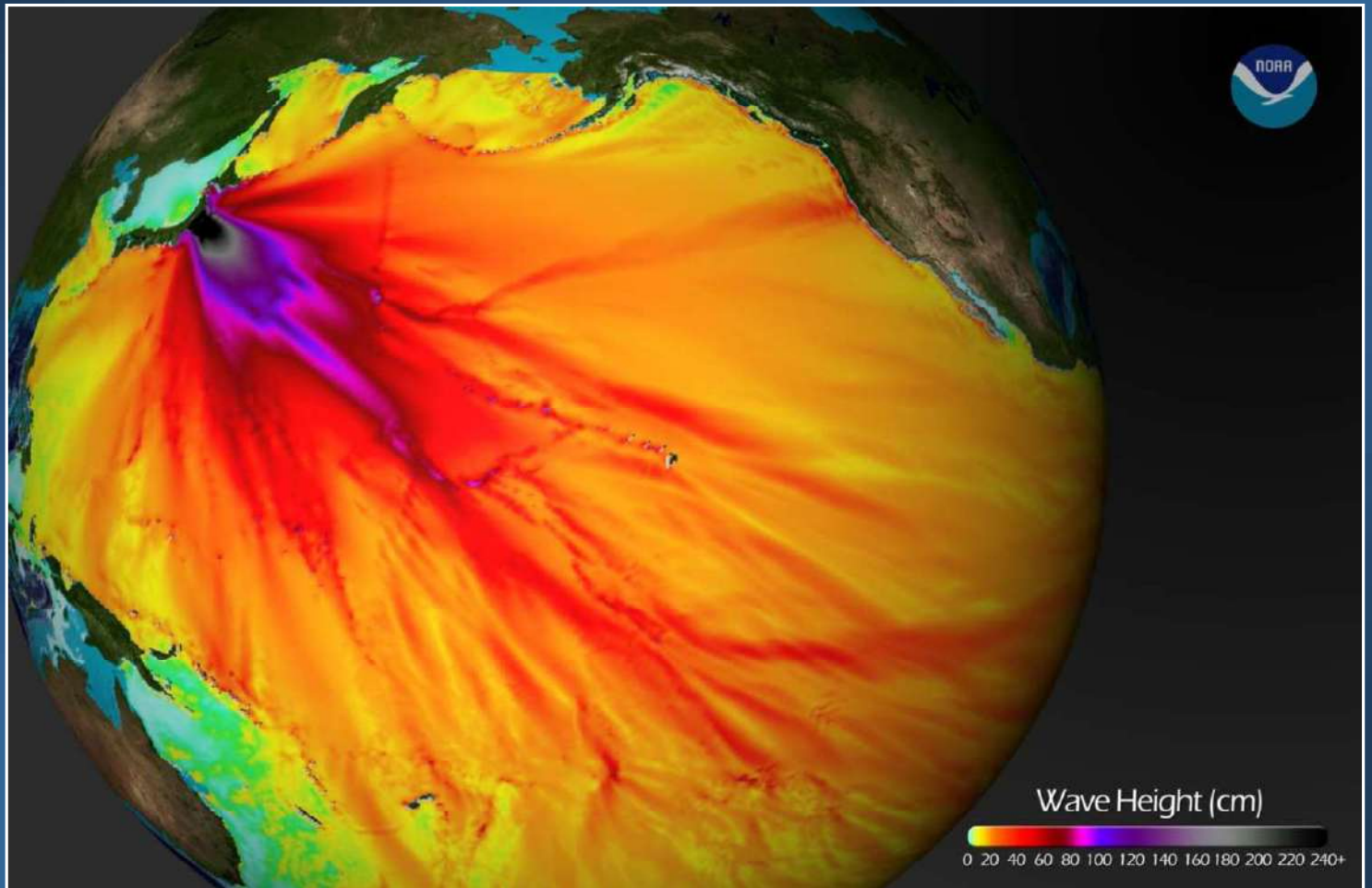


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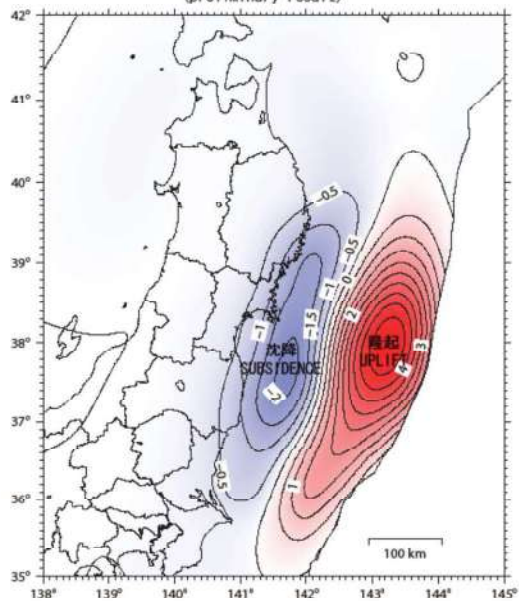


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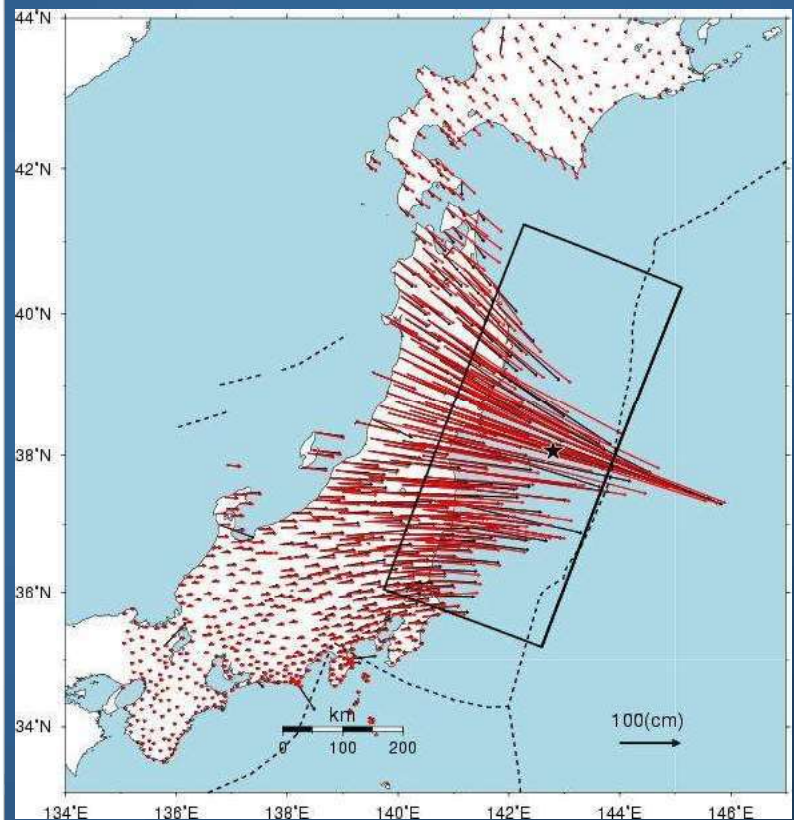


平成23年(2011年)東北地方太平洋沖地震の
The 2011 off the Pacific coast of Tohoku Earthquake
滑り分布モデル(暫定)から想定される上下変動
Vertical deformation calculated from slip distribution model
(preliminary result)



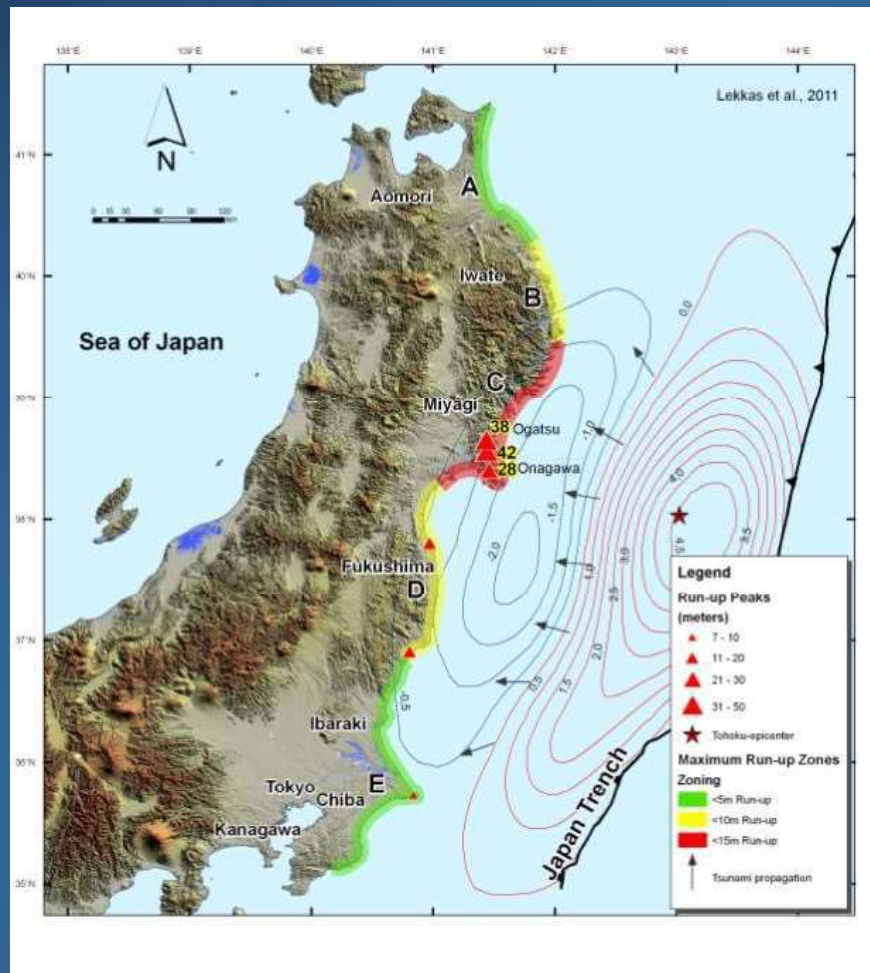
コンター間隔: 0.5 m
Contour interval: 0.5 m

Geospatial Information Authority of Japan





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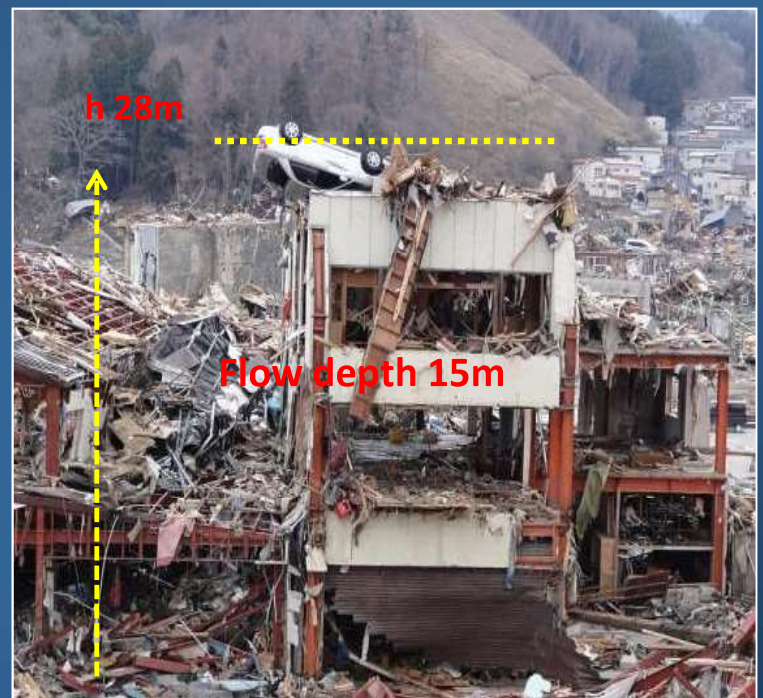
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NE JAPAN 2011



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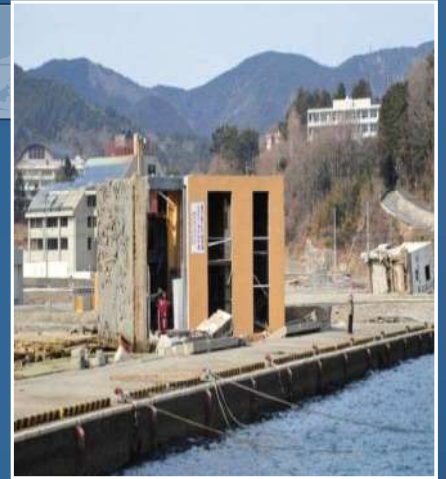






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Grade 5 – Destruction.

Extensive load bearing structure deformation. Buildings detached and carried away at great distances.







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Δρ. ΕΥΘΥΜΗΣ ΛΕΚΚΑΣ

ΚΑΘΗΓΗΤΗΣ

**ΔΥΝΑΜΙΚΗΣ ΤΕΚΤΟΝΙΚΗΣ ΕΦΑΡΜΟΣΜΕΝΗΣ ΓΕΩΛΟΓΙΑΣ &
ΔΙΑΧΕΙΡΙΣΗΣ ΦΥΣΙΚΩΝ ΚΑΤΑΣΤΡΟΦΩΝ**

ΠΡΟΕΔΡΟΣ

ΟΡΓΑΝΙΣΜΟΥ ΑΝΤΙΣΕΙΣΜΙΚΟΥ ΣΧΕΔΙΑΣΜΟΥ & ΠΡΟΣΤΑΣΙΑΣ

ΠΡΟΕΔΡΟΣ

ΤΜΗΜΑΤΟΣ ΓΕΩΛΟΓΙΑΣ ΚΑΙ ΓΕΩΠΕΡΙΒΑΛΛΟΝΤΟΣ

ΔΙΕΥΘΥΝΤΗΣ

ΠΙΜΣ ΣΤΡΑΤΗΓΙΚΗΣ ΔΙΑΧΕΙΡΙΣΗΣ ΠΕΡΙΒΑΛΛΟΝΤΟΣ ΚΑΤΑΣΤΡΟΦΩΝ & ΚΡΙΣΕΩΝ

**ΣΕΙΣΜΙΚΟΣ ΚΙΝΔΥΝΟΣ ΚΑΙ
ΤΡΩΤΟΤΗΤΑ ΚΑΤΑΣΚΕΥΩΝ – ΥΠΟΔΟΜΩΝ.
ΙΔΙΑΙΤΕΡΑ ΔΕΔΟΜΕΝΑ
ΑΠΟ ΤΟΝ ΕΛΛΑΔΙΚΟ ΚΑΙ ΔΙΕΘΝΗ ΧΩΡΟ**

ΑΘΗΝΑ - ΛΕΥΚΩΣΙΑ 2022



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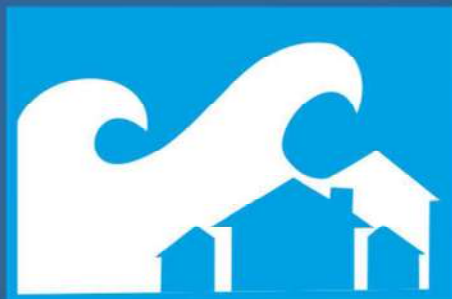




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ΣΤΡΑΤΗΓΙΚΕΣ ΔΙΑΧΕΙΡΙΣΗΣ ΠΕΡΙΒΑΛΛΟΝΤΟΣ, ΚΑΤΑΣΤΡΟΦΩΝ & ΚΡΙΣΕΩΝ



ΕΘΝΙΚΟ & ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
ΠΡΟΓΡΑΜΜΑ ΜΕΤΑΠΤΥΧΙΑΚΩΝ ΣΠΟΥΔΩΝ





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Newsletter of
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Crises Management Strategies**
ISSN 2653-9434

Issue No. 7 | June 2018



**The May - June 2018
Kilauea (Big Island,
Hawaii) Volcano Activity**
Scientific report (Version 1.0)

Dr. Elthymis Lekkas
Professor of
Disaster, Safety & Public Safety
& Natural Disaster Management
President of the
National Planning and Research Organization
Director of the
National Institute for
Environmental Research and Crisis Management
Strategy

PhD c. Spyridon Mavroulis
PhD c. Dimitrios Milios

Newsletter of
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ISSN 2653-9434

Issue No. 8 | July 2018



**THE JULY 2018
ATTICA
(CENTRAL GREECE)
WILDFIRES**

Dr. Elthymis Lekkas, Dr. Panayotis
Carpitis, PhD c. Spyridon Mavroulis,
Dr. Michael Katsoulas, PhD c.
Emmanuel Andreoukakis, PhD, Maria
Kougi, PhD, Rafaila Ioannidou-Spyri,
Dr. Vasiliki Kikilidou, PhD, Elias
Kougiouris, Dr. Christos Vassiliadis,
PhD, Stavros Kati, Dr. Panos
Dimitrakopoulos, PhD, John
Kougiouris, PhD, Dimitrios Iliadis,
PhD, Vasiliki Kikilidou, PhD, Vasiliki
Kougiouris, PhD, Vasiliki Kikilidou,
Dr. Konstantinos Lignos, Dr.
Vasiliki Kikilidou, Dr. Theodoros
Kougiouris, PhD, Vasiliki Kikilidou,
PhD, Vasiliki Kikilidou, Dr.
Athanasios Katsoulas, Dr.
Katerina Papadopoulou, Dr. Margarita
Kougiouris, Dr. Vasiliki Kikilidou

Newsletter of
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Crises Management Strategies**
ISSN 2653-9434

Issue No. 9 | November 2018



**The September 2018
Mw 7.5 Palu
(Sulawesi Island,
Indonesia) earthquake
and tsunami disaster**

Dr. Elthymis Lekkas
Professor of
Disaster, Safety & Public Safety
& Natural Disaster Management
President of the
National Planning and Research Organization
Director of the
National Institute for
Environmental Research and Crisis Management
Strategy

PhD c. Spyridon Mavroulis
PhD c. Dimitrios Milios

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ISSN 2653-9434

Issue No. 10 | November 2018



**THE Mw 6.8
OCTOBER 26, 2018
ZAKYNTHOS
(IONIAN SEA, GREECE)
EARTHQUAKE**

Dr. Elthymis Lekkas
Professor of
Disaster, Safety & Public Safety
& Natural Disaster Management
President of the
National Planning and Research Organization
Director of the
National Institute for
Environmental Research and Crisis Management
Strategy

PhD c. Spyridon Mavroulis
PhD c. Dimitrios Milios

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ISSN 2653-9434

Issue No. 11 | November 2018



**THE NOVEMBER 24,
2018 SLOPE FAILURES
IN PLOMARI TOWN
(LESVOS ISLAND,
NORTHEAST AEGEAN SEA,
GREECE)**

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Dr. Stylianos Loukos
Dr. Emmanuel Skourtos
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PhD c. Spyridon Mavroulis
PhD c. Dimitrios Milios

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**The December 2018
volcano-triggered
tsunami in
Krakatau complex
(Sunda Strait, Indonesia)**

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En. Professor Panayotis Carpitis
PhD c. Dimitrios Milios



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Issue No.59 | September 2019



**The September 21, 2019
Mw 5.6 Durrës (Albania)
earthquake**

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**The November 25, 2019
Kineta (Western Attica)
Flood**

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PhD c. Nafeka Ioanna Spyros
PhD c. Christos Fili
Dr. Michalis Oikaridis
As. Prof. Emmanouel Vassiliadis
PhD c. Kati-Nona Katselidou
PhD c. Dimitrios Milas
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Dr. Anastasia Christopoulou
Dr. Vassana Antoniou

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**The November 26, 2019
Mw 6.4 Durrës (Albania)
earthquake**

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PhD c. Dimitris Papa
Em. Professor Panayiotis Ceylanis

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**The January 24, 2020
Mw 6.8 Elazığ (Turkey)
Earthquake**

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Em. Professor Panayiotis Ceylanis
PhD c. Spyridon Mavroulis

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**The March 21, 2020,
Mw 5.7 Epirus (Greece)
Earthquake**

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Prof. Em. P. Ceylanis
As. Prof. G. Kavali
Dr. P. P. Pouches
Dr. A. Ganas
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T. Gekas
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Dr. S. Sili
Dr. O. Morkogloumaki

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**The August 4, 2020
Beirut (Lebanon)
explosion: a
technological disaster
within crises**

Professor Efthymis Lekkas
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Professor Em. Panayiotis Ceylanis
PhD c. Katerina-Nausika
Katselidou



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(Central Greece) Flood**

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PhD: Evaleia Kotsi
PhD: Chrysos Pili
Dr. Michalis Diakakis
Prof. Christos Karanikas
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MSc Andreas Karavias
MSc Despina Belli
MSc Ioannis Gougoutzanos

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P. Carydis, E. Stamati,
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