





The Greek experience from the 30 October 2020 earthquake in Samos island



Church in Karlovasi, Samos

EARTHQUAKE PLANNING AND PROTECTION ORGANISATION

FORECASTING OF EARTHQUAKES



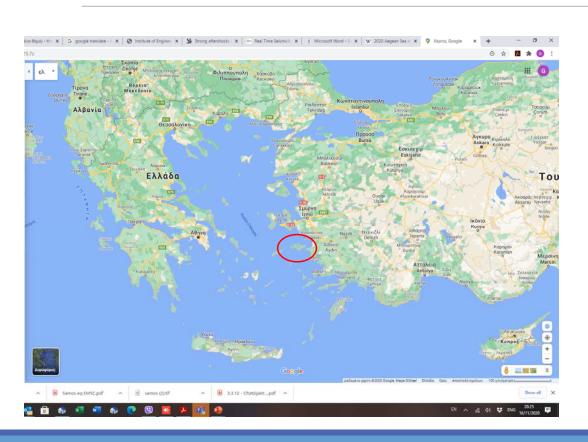
Webinar on EQ in the midst of the pandemic



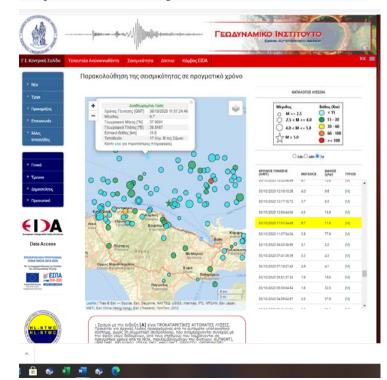




Samos 30/10/2020 earthquake amid a pandemic



Epicenter & aftershocks GI-NOA

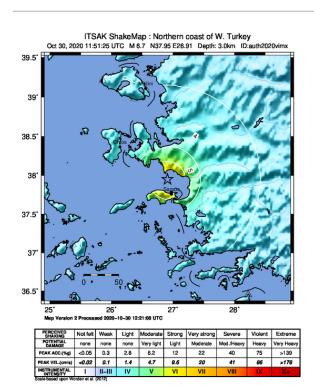








Samos 30/10/2020 earthquake amid a pandemic



Shakemap ITSAK-EPPO



Active faults and seismicity of Samos, Ikaria and Fourni Islands.







Samos 30/10/2020 earthquake amid a pandemic

Contradicting issues

- Citizens need to gather in assembly points
- ★ Search and Rescue operations need the cooperation of groups of people
- **№** Food and resources have to be distributed
- **♦** Shelters are needed for e/q victims
- Large number of people needing health care may occur

- Citizens need to keep social distancing measures
- Rescuers need to wear masks, people operating need to keep distances
- All shared objects need to be sanitized
- Crowding should be avoided
- Viral tests should be performed in all hospital admissions







Samos 30/10/2020 earthquake amid a pandemic

Samos case study

- + Good weather favored outside shelters and operation centers
- + Low density populated
- + Low infections rate regarding COVID-19
- + Low touristic season

- One of the largest refugee camp in Greece
- Lack of personnel accommodation due to low season and COVID-19







Samos 30/10/2020 earthquake amid a pandemic

Two exclusive flights operated by Civil Protection transported all required personnel a few hours after the earthquake.

All the necessary safety measures were taken during the flight.

- Masks throughout the whole journey
- One person sitting in each seat row
- Sanitizers were available everywhere









Samos 30/10/2020 earthquake amid a pandemic

The Operational Center was established immediately after the earthquake in the area outside the Municipality Building in Vathi.

The Center was outside and always open for constant ventilation





Source:EPPO







Samos 30/10/2020 earthquake amid a pandemic

Safety measures during the meetings among the members of the Coordination Center in Vathi.



Wearing masks



Keeping distances in operation center



Sanitizers-bottled water, packaged food, disposable gloves



Webinar on EQ in the midst of the pandemic

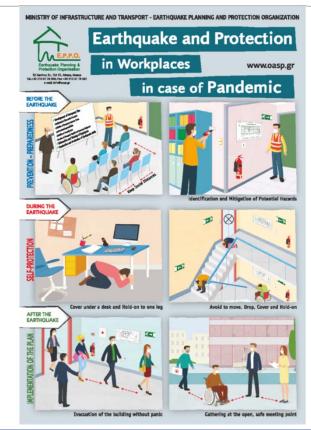
- 19 November 2020 -

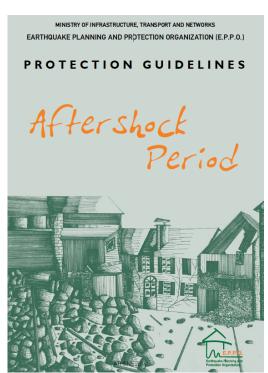




Samos 30/10/2020 earthquake amid a pandemic

Educational material for the public regarding Earthquake Protection in case of Pandemic was given to the Local Authorities. (www.oasp.gr)











Samos 30/10/2020 earthquake amid a pandemic

Civil engineers from the Ministry of Infrastructure and EPPO carried out inspections of buildings, critical infrastructures, lifelines, together with civil engineers from the Technical Departments of Local Authorities of Samos.





Source: EPPO



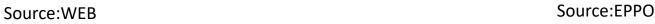




Samos 30/10/2020 earthquake amid a pandemic

Structural and non structural damages













Samos 30/10/2020 earthquake amid a pandemic

Working meetings with members of the educational community (heads of school units) of the island (Vathi, Karlovasi) from EPPO, in open spaces wearing masks













Source: EPPO







Samos 30/10/2020 earthquake amid a pandemic

Information of the public



Source:WEB









Source: EPPO







Samos 30/10/2020 earthquake amid a pandemic

Despite the positive impact of the safety measures, the occurrence of an earthquake in addition to COVID-19, may easily increase the infection rates.



(Kathimerini newspaper, 31/10/2020)







Samos 30/10/2020 earthquake amid a pandemic

Preparedness plans can be improved by analyzing data regarding the rise in the daily confirmed cases in the earthquake stricken area and evaluate whether a correlation between the earthquake and the infection rates exists.



Source:WEB

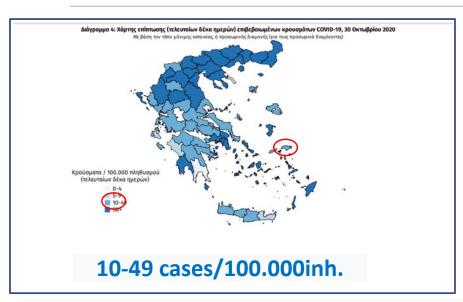






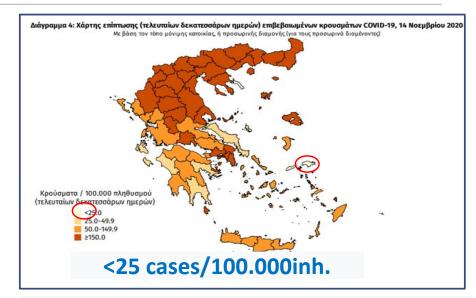


Samos 30/10/2020 earthquake amid a pandemic



Incidence map (last ten days) of confirmed COVID-19 cases, on October 30, 2020 in Greece

(source: National Public Health Organisation)



Incidence map (last ten days) of confirmed COVID-19 cases, on November 14, 2020 in Greece

(source: National Public Health Organisation)





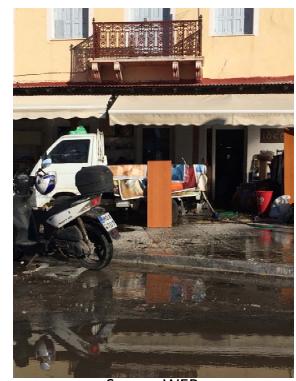


Samos 30/10/2020 earthquake amid a pandemic

Natural disasters have a random distribution through time and space which can coincide with economic crisis, geopolitical tension or a pandemic.

Several factors, like climate change, for example, will keep on increasing the possibility of such concurrencies.

Hence, multiple case scenarios and preparedness plans should be urgently adopted by the Authorities.



Source:WE







Samos 30/10/2020 earthquake amid a pandemic

LEGAL BODIES:

- -Ministry of Infrastructures and Transport (https://www.yme.gr)
- -Earthquake Planning and Protection Organization (https://www.oasp.gr)
- -General Secretariat for Civil Protection Greece (https://www.civilprotection.gr)
- -Ministry of Interior (https://www.ypes.gr)
- -National Public Health Organization (https://eody.gov.gr)
- -General Secretariat for Research and Technology (http://www.gsrt.gr)
- -Institute of Geodynamics (http://www.gein.noa.gr)







Thank you,

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