33rd Virtual UNISEC-Global Meeting Opening Remarks

- Can Space Technology Mitigate Earthquake Damage?

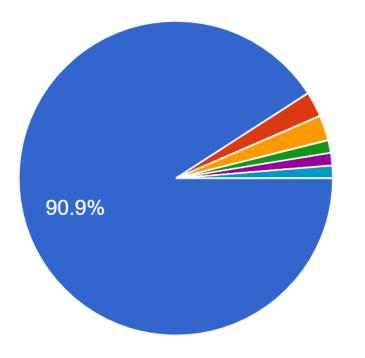


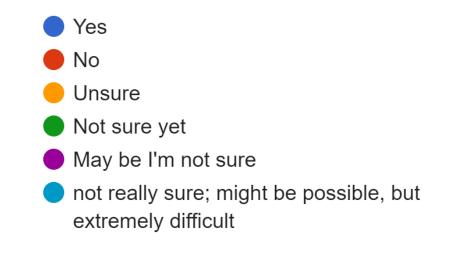
Rei Kawashima, UNISEC-Global



Can Space Technology Mitigate Earthquake Damage?

Do you think space technology can mitigate earthquake damage? 77 responses







The Hanshin-Awaji earthquake 17 February, 1995 (Tuesday) at 5:46 JST

6,000 killed, 40,000 injured,

330,000 buildings, roads, bridges were affected partially or completely.









Tohoku Earthquake and Tsunami 11 March, 2011, at 14:46 JST

- 16,000 killed and 2,000 missing (90% death by drowning)
- 6,000 injured
- 1,000,000 building was affected.

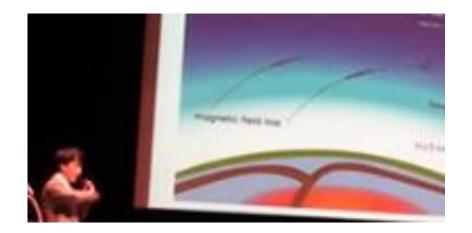
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1<sup>st</sup> Mission Idea Contest
March 14, 2011
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Nuclear power plant accident in Fukushima





Project of Micro-Satellite Constellation for Earthquake Precursor Study



by Masashi Kamogawa, et.al.

2nd Mission Idea Contest, Oct 10, 2012 Final Presentation at the UN/Japan Nano-satellite Symposium (in Nagoya)

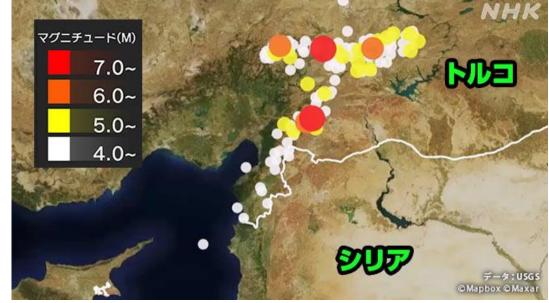
Masashi Kamogawa, Kohei Tanaka, Kikuko Miyata, Kaori Mochizuki, Kento Nakazawa, Hideki Kayaba, Junichi Takisawa, Kiichiro DeLuca and Yoshihiro Kakinami



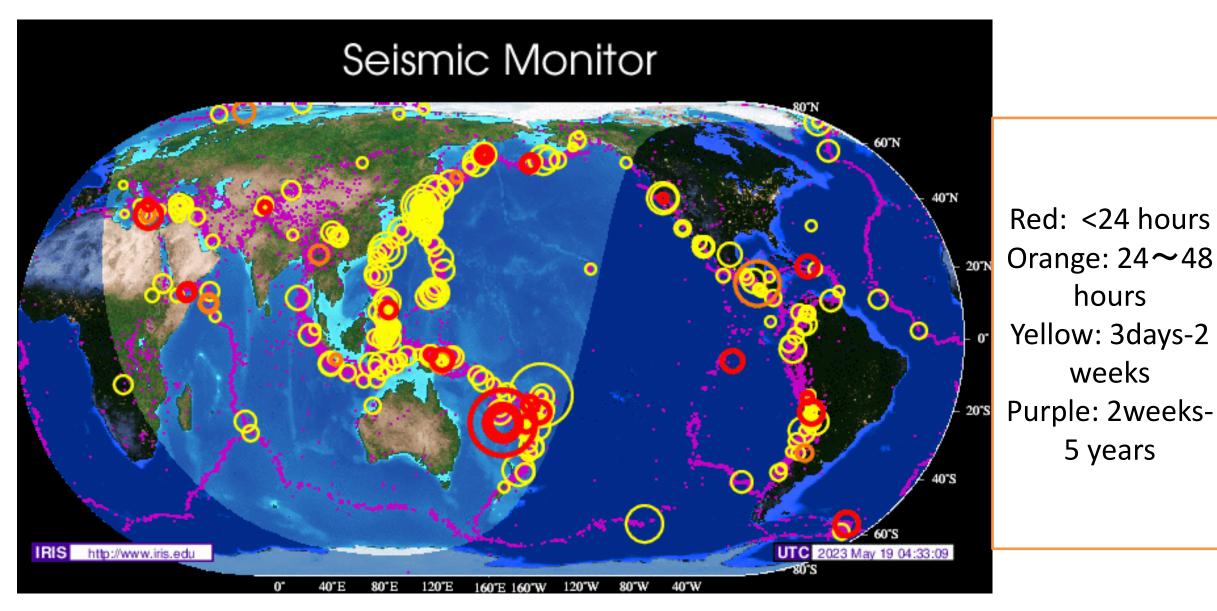
Turkey–Syria earthquake 6 February 2023, at 04:17 TRT

- 50,783 deaths, 297 missing
- 107,204 injured
- 4 million buildings were affected







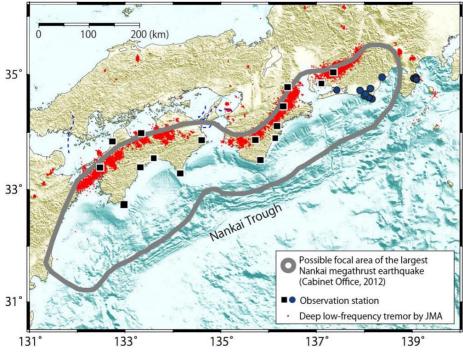


http://ds.iris.edu/seismon/index.phtml (accessed on May 19, 2023)

Nankai Trough Earthquake

- The probability of a major Nankai Trough earthquake is now
 estimated at around 30% within 10 years, 70% to 80% within 30 years, and around 90% within the next 40 years.
- Once it happens,

Tsunami will reach in 3 minutes.



What if we could know the earthquake 30 minutes earlier?

What can we do to reduce the earthquake damage with space technology and science?

- Ganapathy Pattukandan India
- Tiger Liu Taiwan
- Frantisek Nemec Czech Republic
- Masashi Kamogawa Japan
- Richard Long (UK) Introduction to Mission Idea Contest

Let's learn from lectures, and make a difference and make something good happen together!

