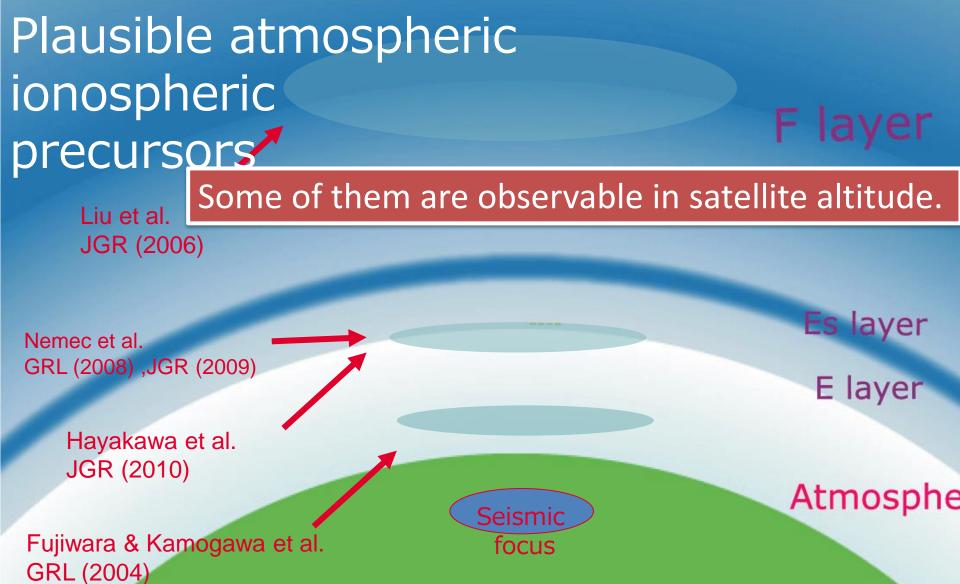
Micro-Satellite Constellation for Earthquake Precursor Study

Moderator: Masashi Kamogawa, Tokyo Gakugei University, Japan

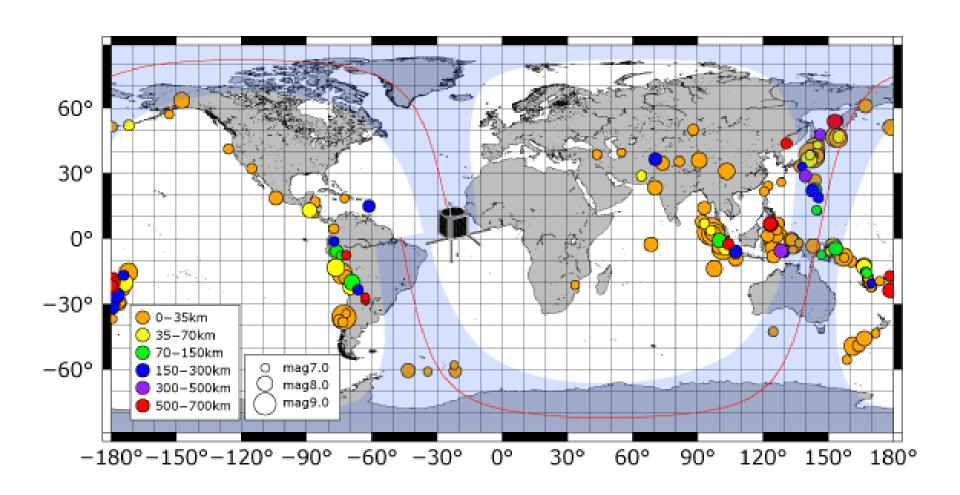
Assistant: Shizuku Tsukishima, Tokai University Sub-assistant: Miyuki Kadokura, Soka University



Duration of precursor is longer than period of satellite orbit.

Kamogawa, Eos (2006) with adding recent reviews

Satellite observation is useful!



Satellites easily monitor global seismicity!

Number of detectable earthquake

ONE satellite

 \rightarrow 118

THREE satellites



Robust statistical verification!!

Time scale: 0~4 hours before the time of main shock

Spatial scale: about 500 km from the epicenter

Target magnitude: More than 5.5

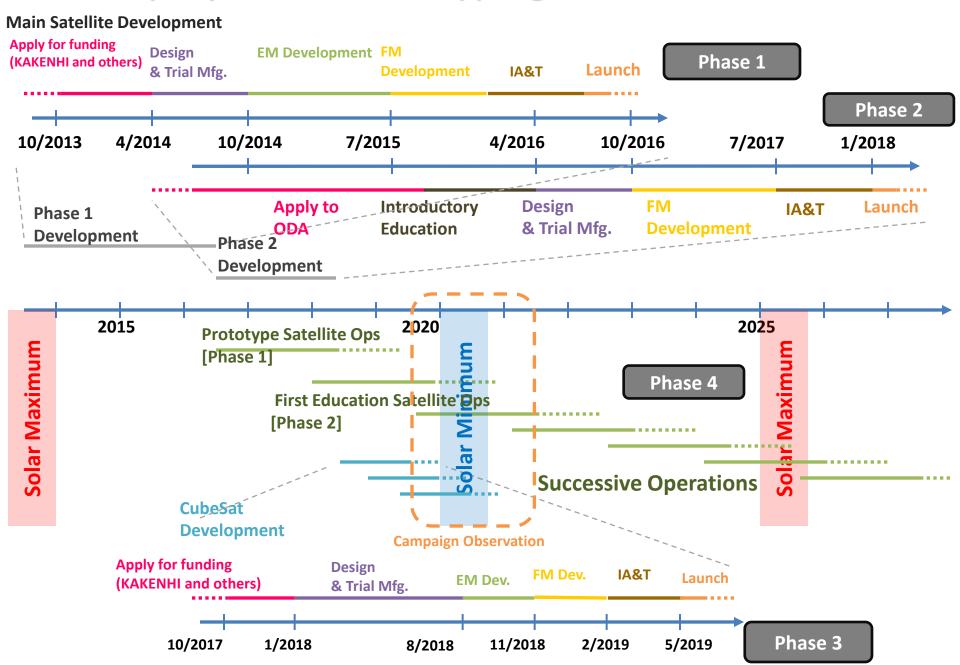
We require ...

We require ...

- 1) mature technologies for continuous observation.
- -> Dedicated nano-satellites to detect a precursor.

- 2) many events for statistical analysis, because of *no* physical mechanism and *tiny* signature.
- ->Satellite constellation.

We propose UNISEC-type global collaboration.



This project in UNISEC-Global gives us

- Chance to share the design and scientific data.
- Successive and continuous observation.

We will solve a global issue of earthquake mitigation!

Join our small discussion group!

Detailed information is shown in MIC2 book!

