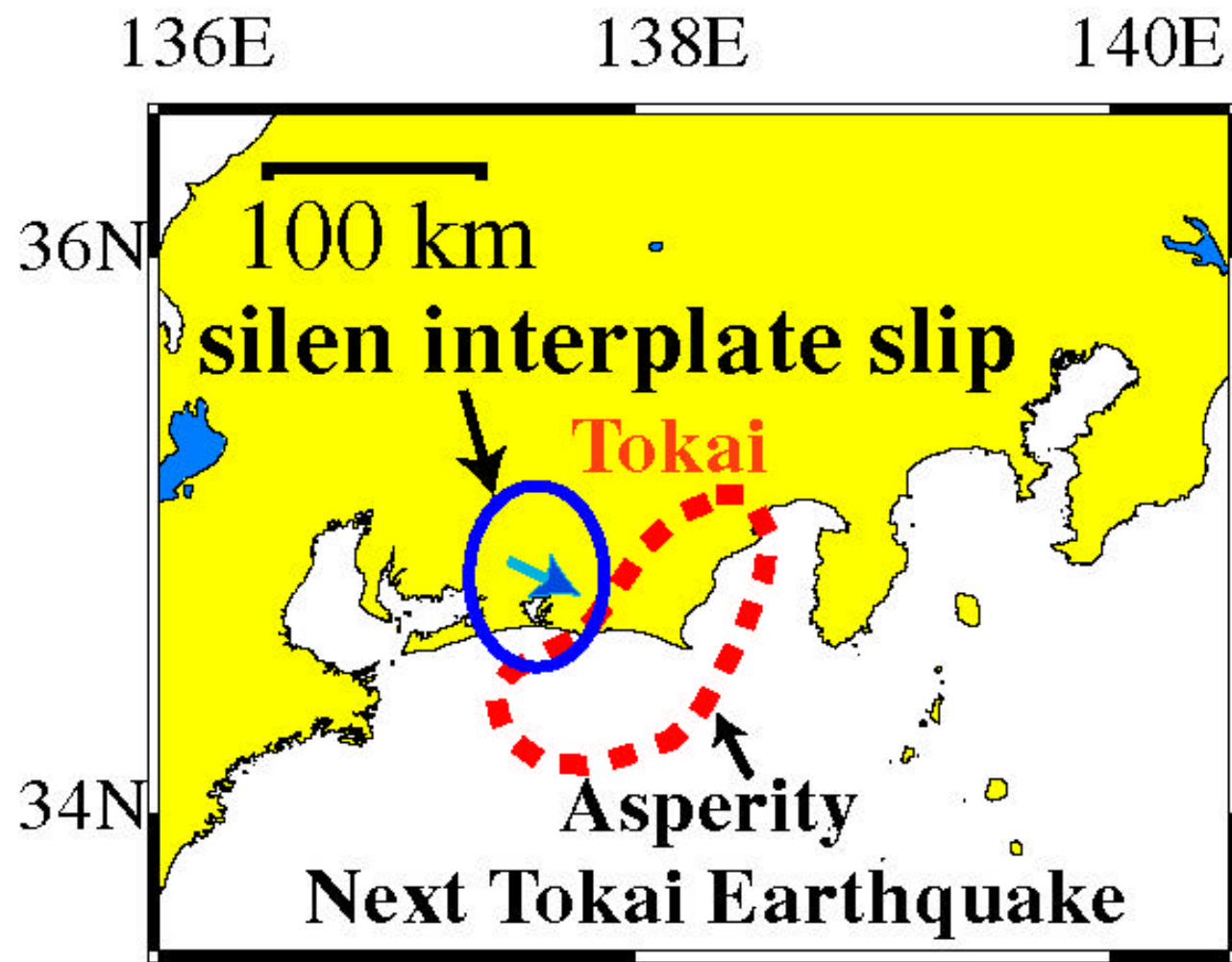
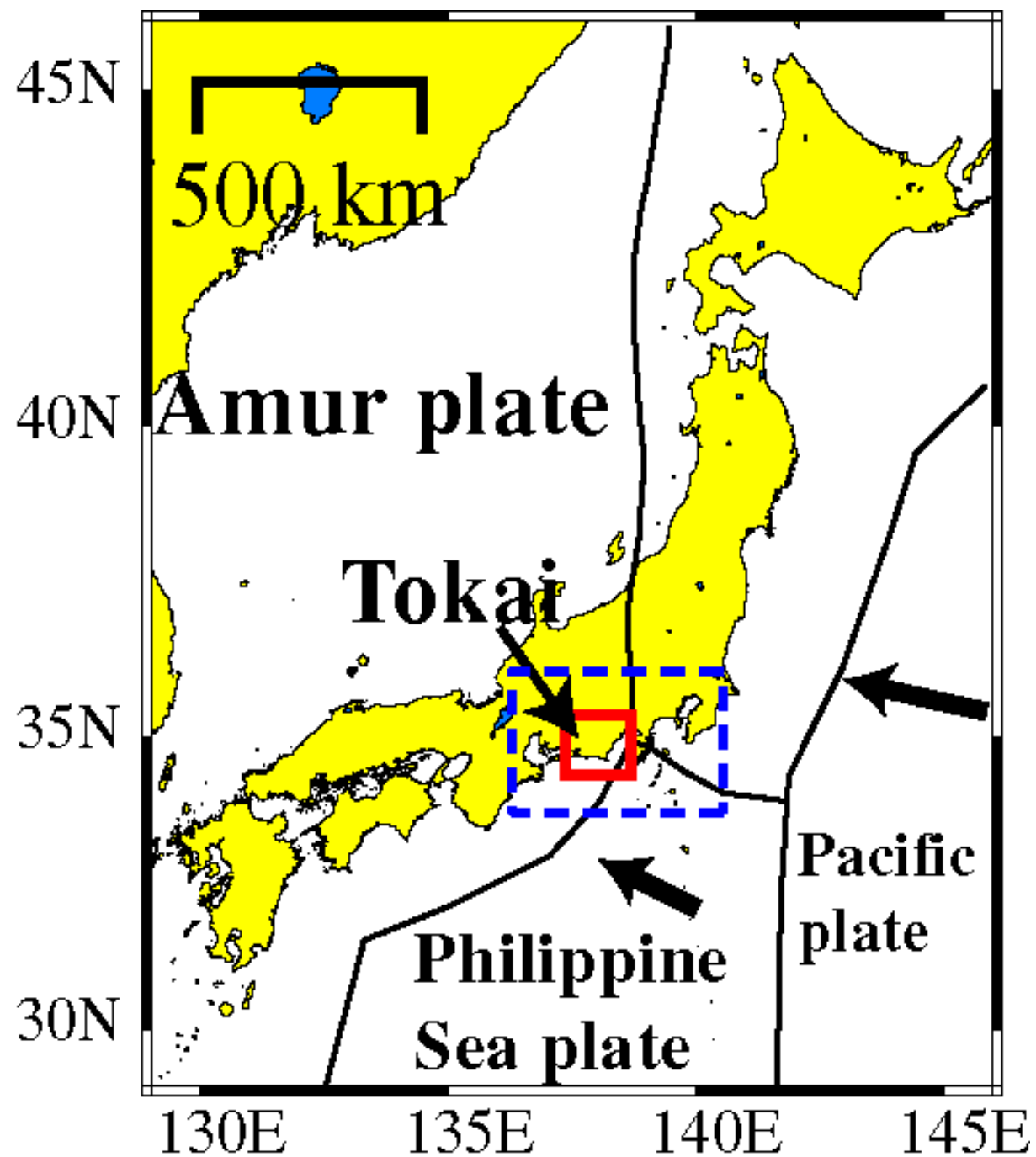


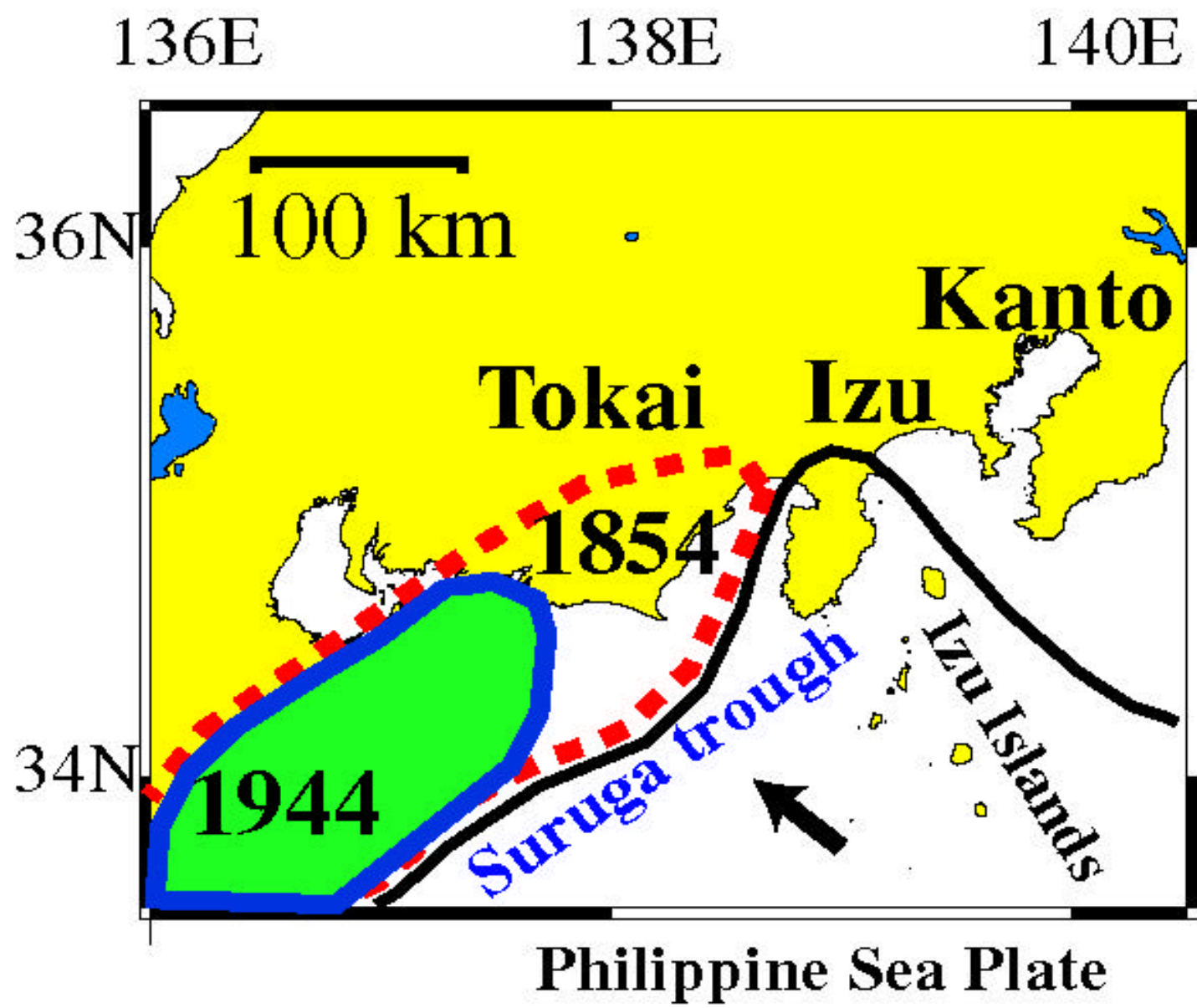
Ongoing Aseismic Slip in the Tokai region, Central Japan

S.Ozawa, M. Murakami, M. Kaizu, T. Sagiya, Y. Hatanaka, H. Yarai, T. Nishimura

**Geography and Crustal Dynamics Research
Center, Geographical Survey Institute of Japan**



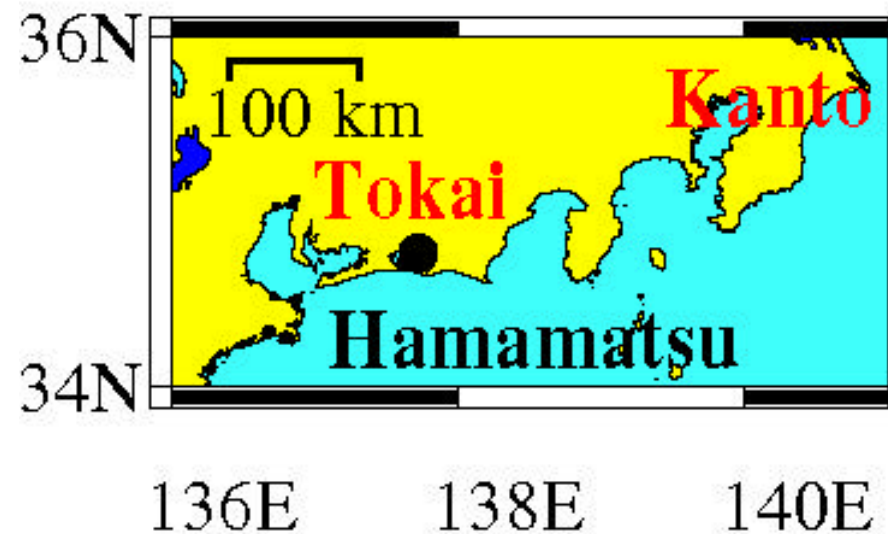
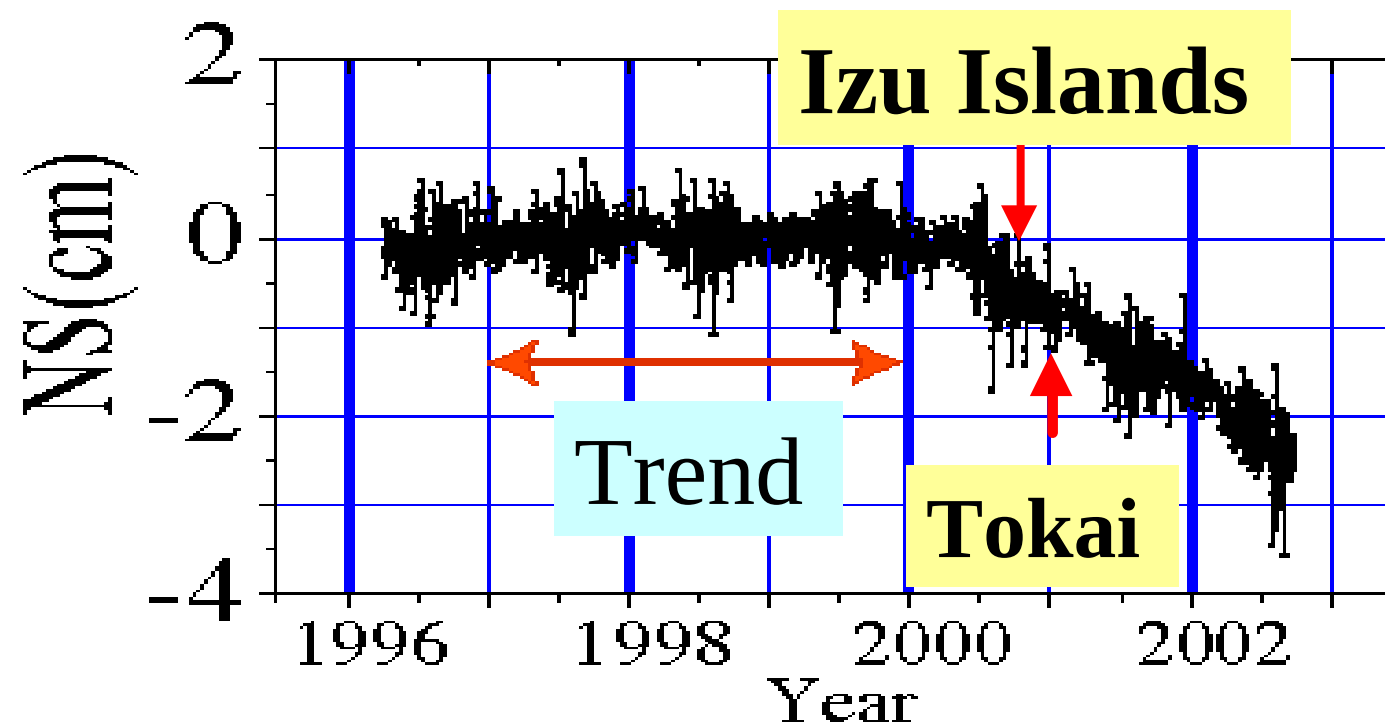




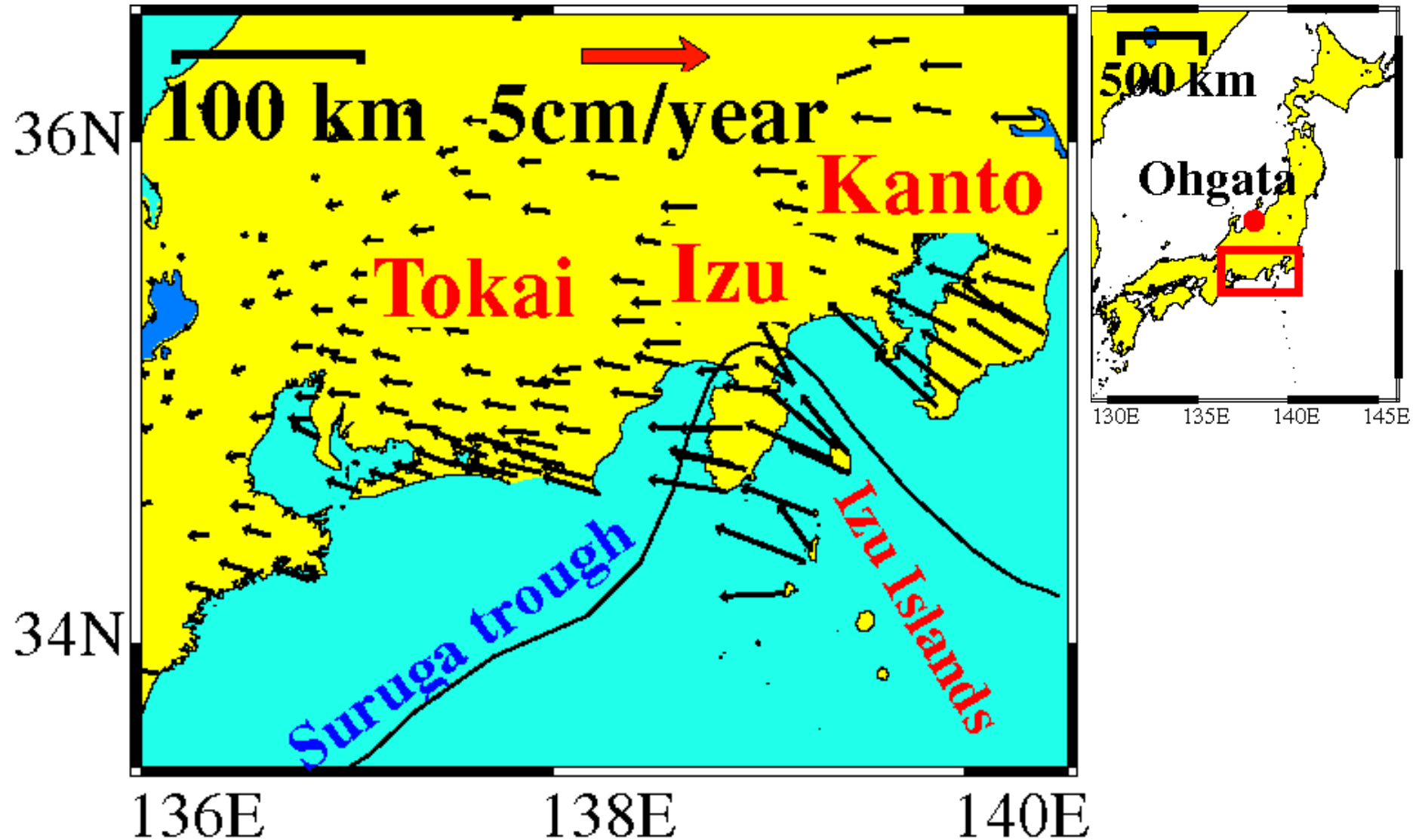
Time Series Data of GPS Analysis

- **1) 24hour Analysis**
(Bernese ver.4.2)
[Hatanaka, 2001]
- **2) Data Period:**
1/1/1996—9/25/2002

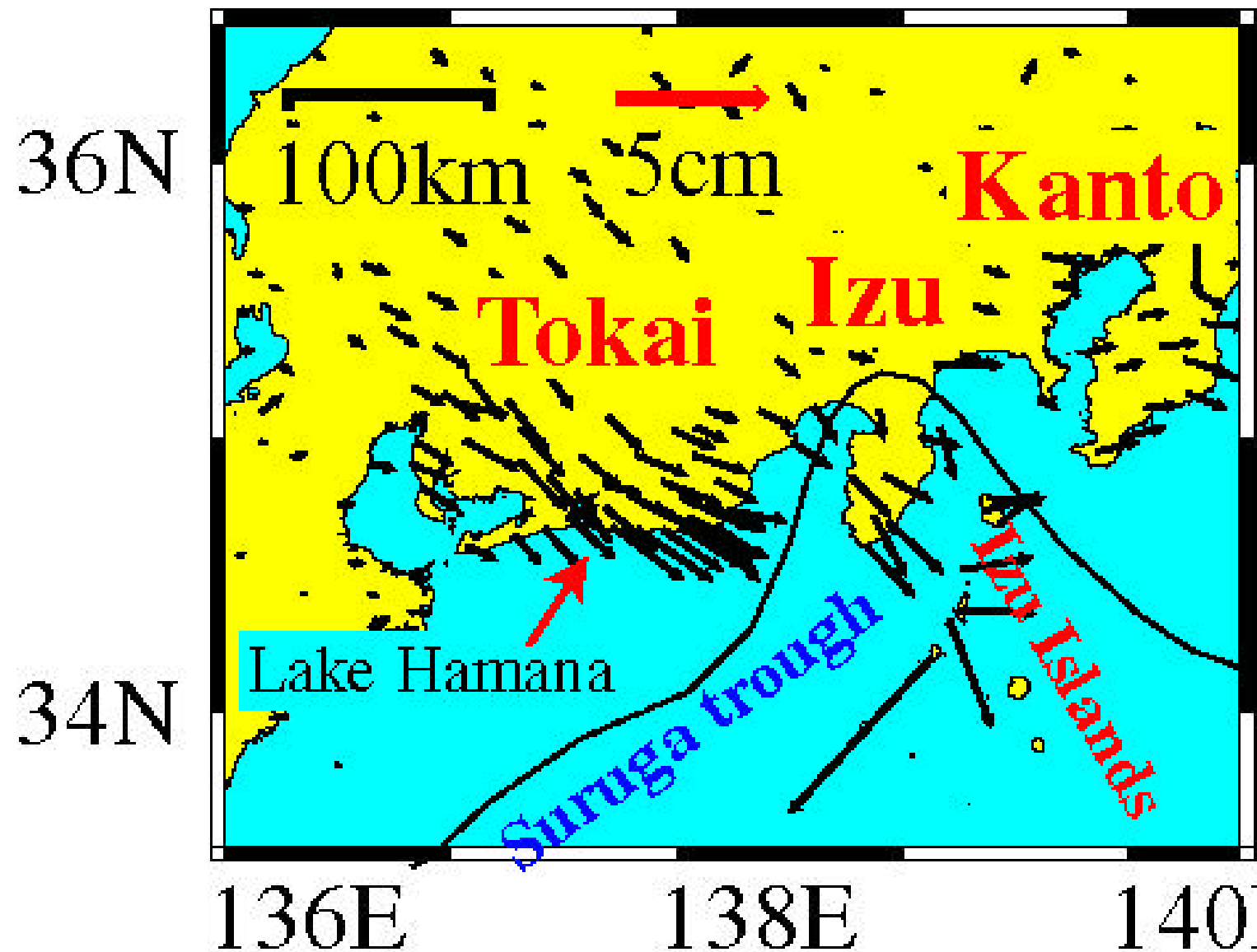
Hamamatsu (detrended NS)



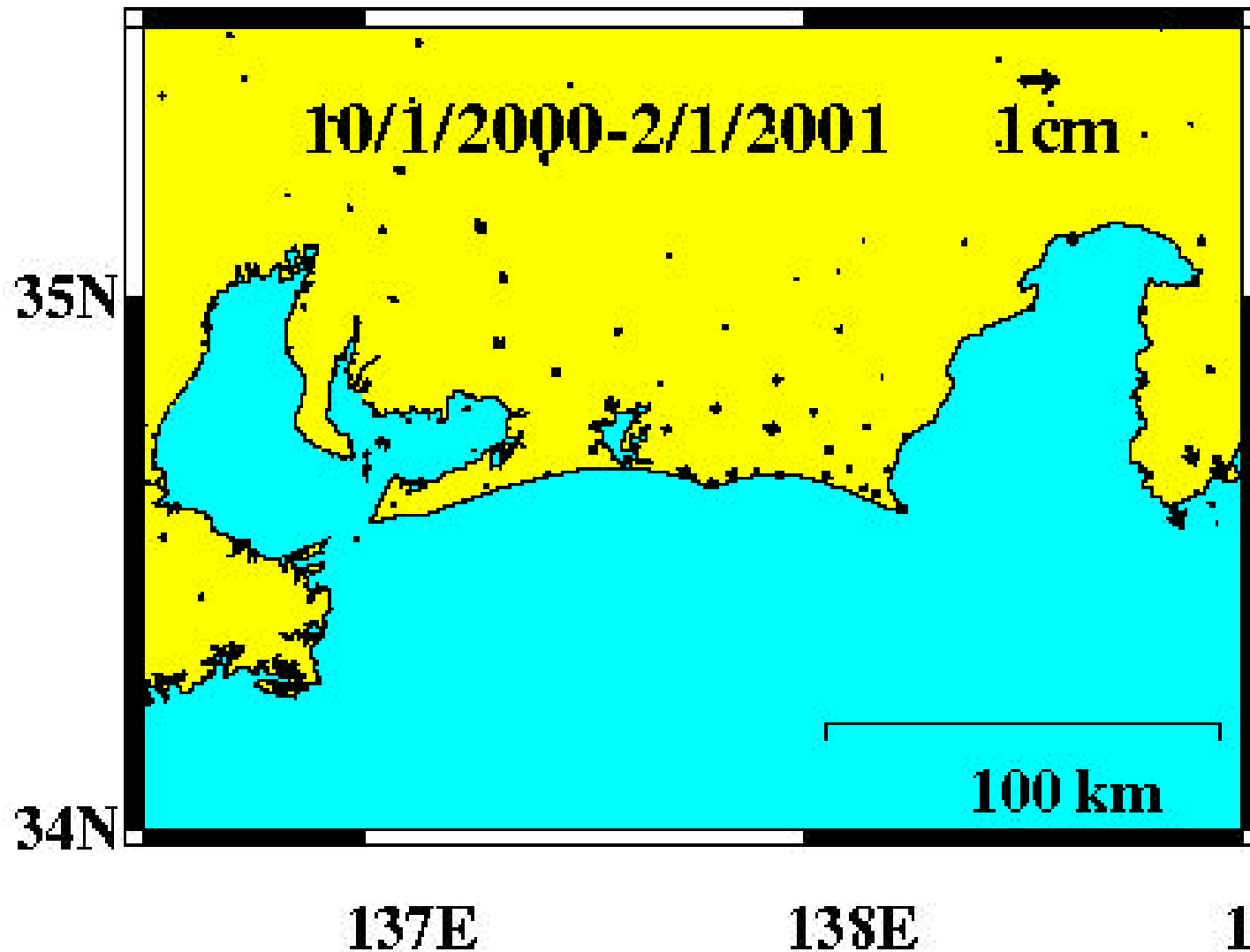
Average velocity 1997-2000



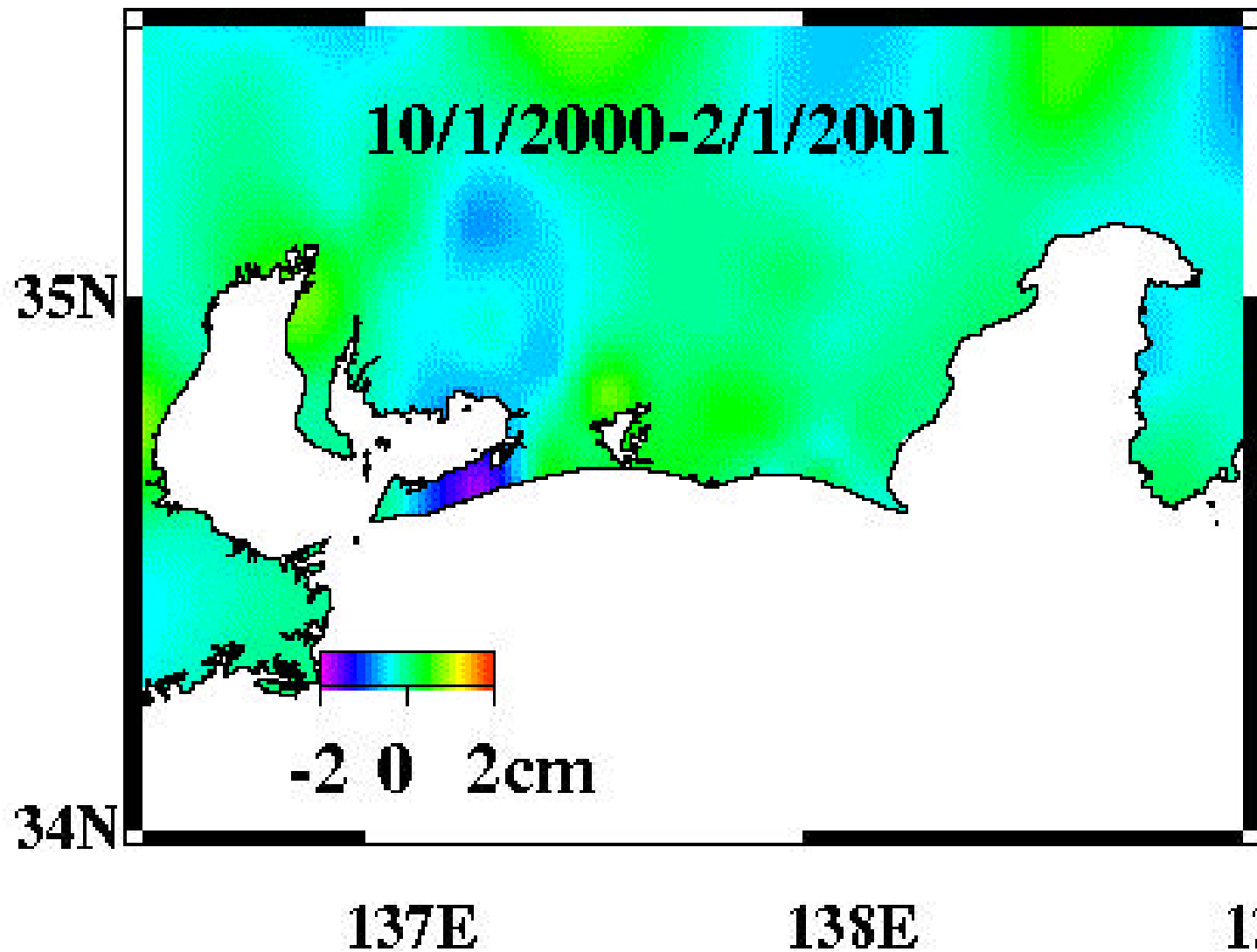
10/1/2000-9/29/2002



Time Evolution of Abnormal Horizontal Motion



Time Evolution of Abnormal Vertical Motion



Kalman Filter Analysis

1) Model Geometry

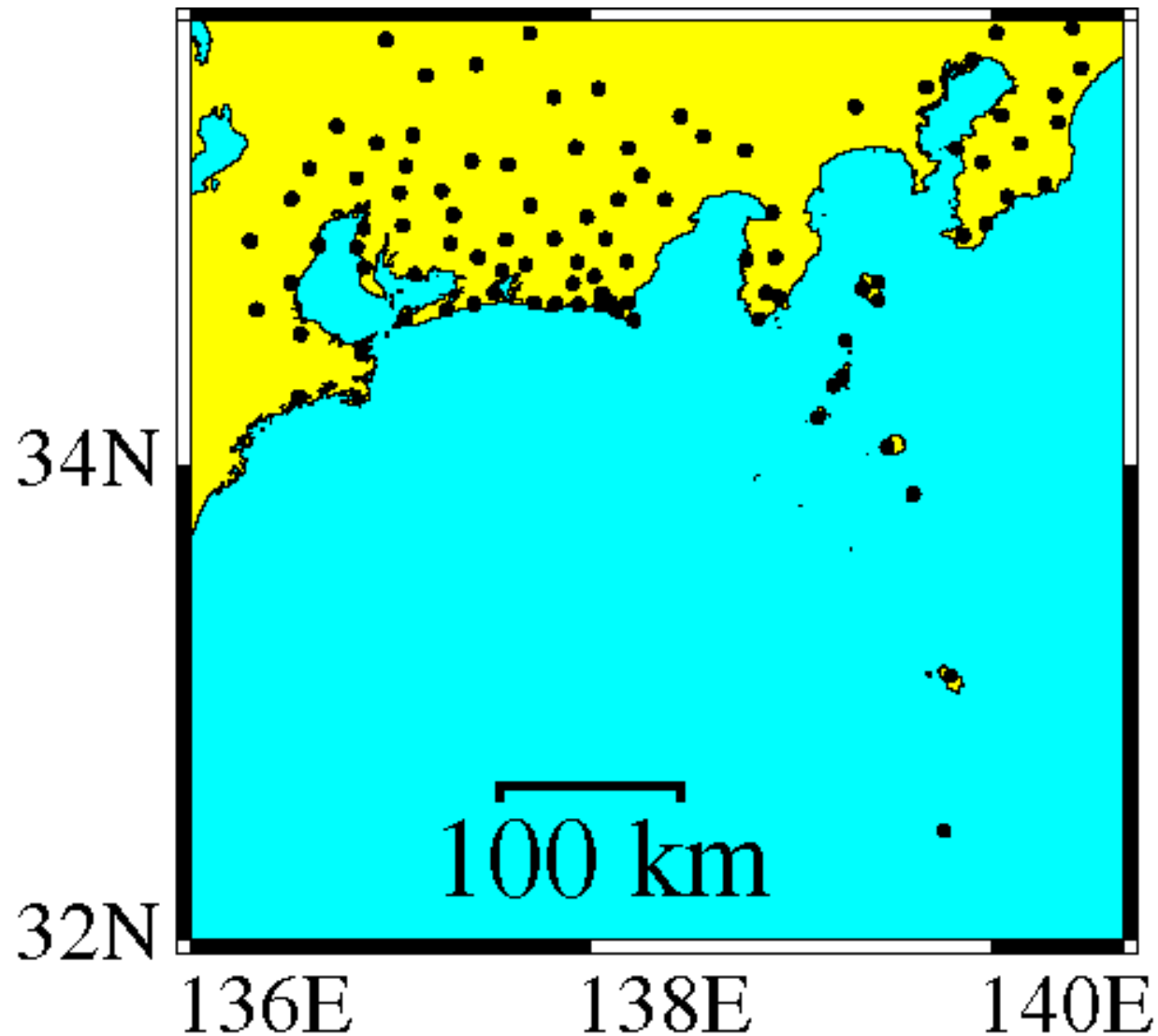
**Tokai + 2000 Izu islands
(Ishida, 1992)**

2) Data Period :

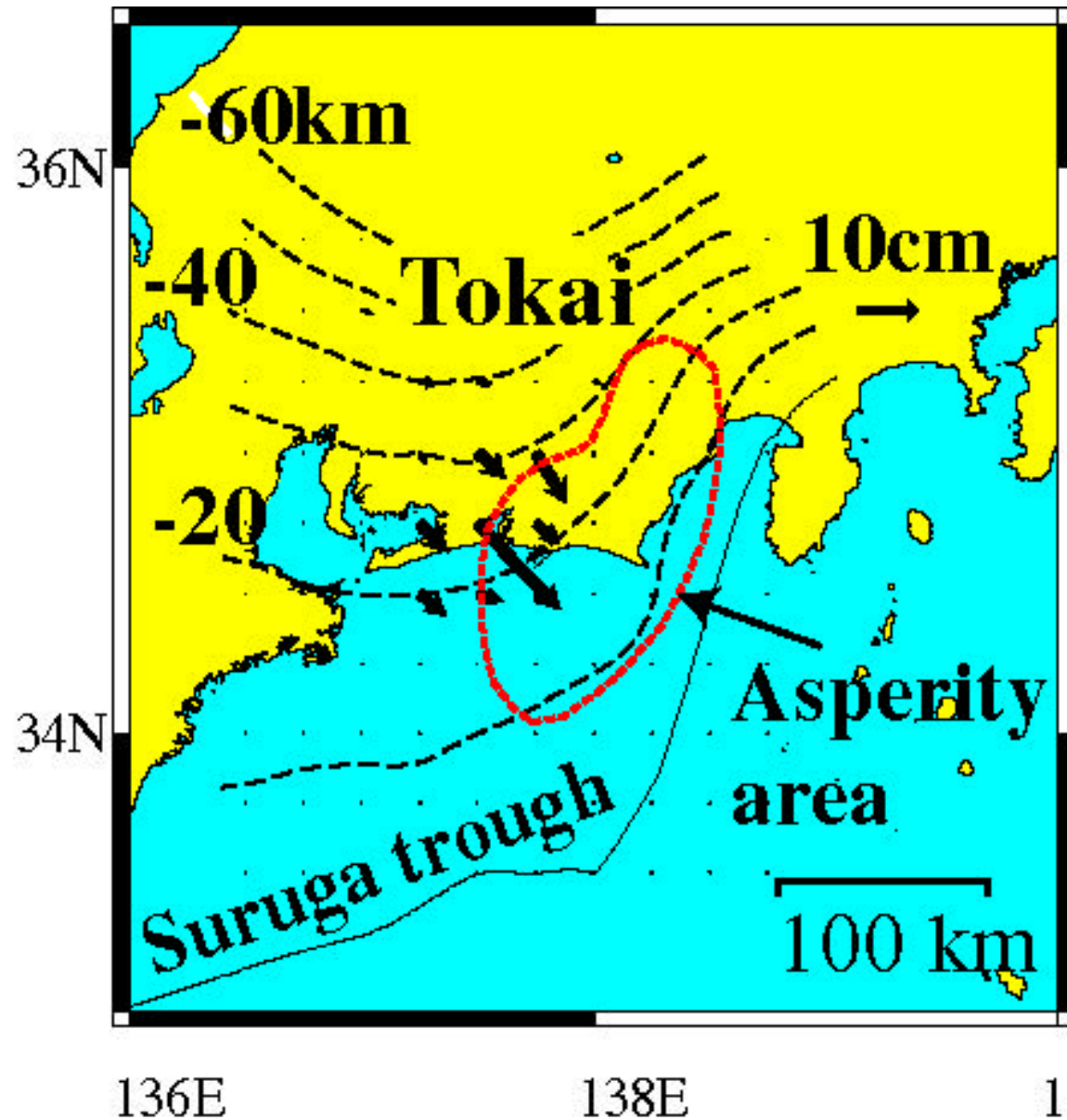
2000/10/1-2001/9/13

**Time dependent inversion
(Segall & Mattesue, 1992)**

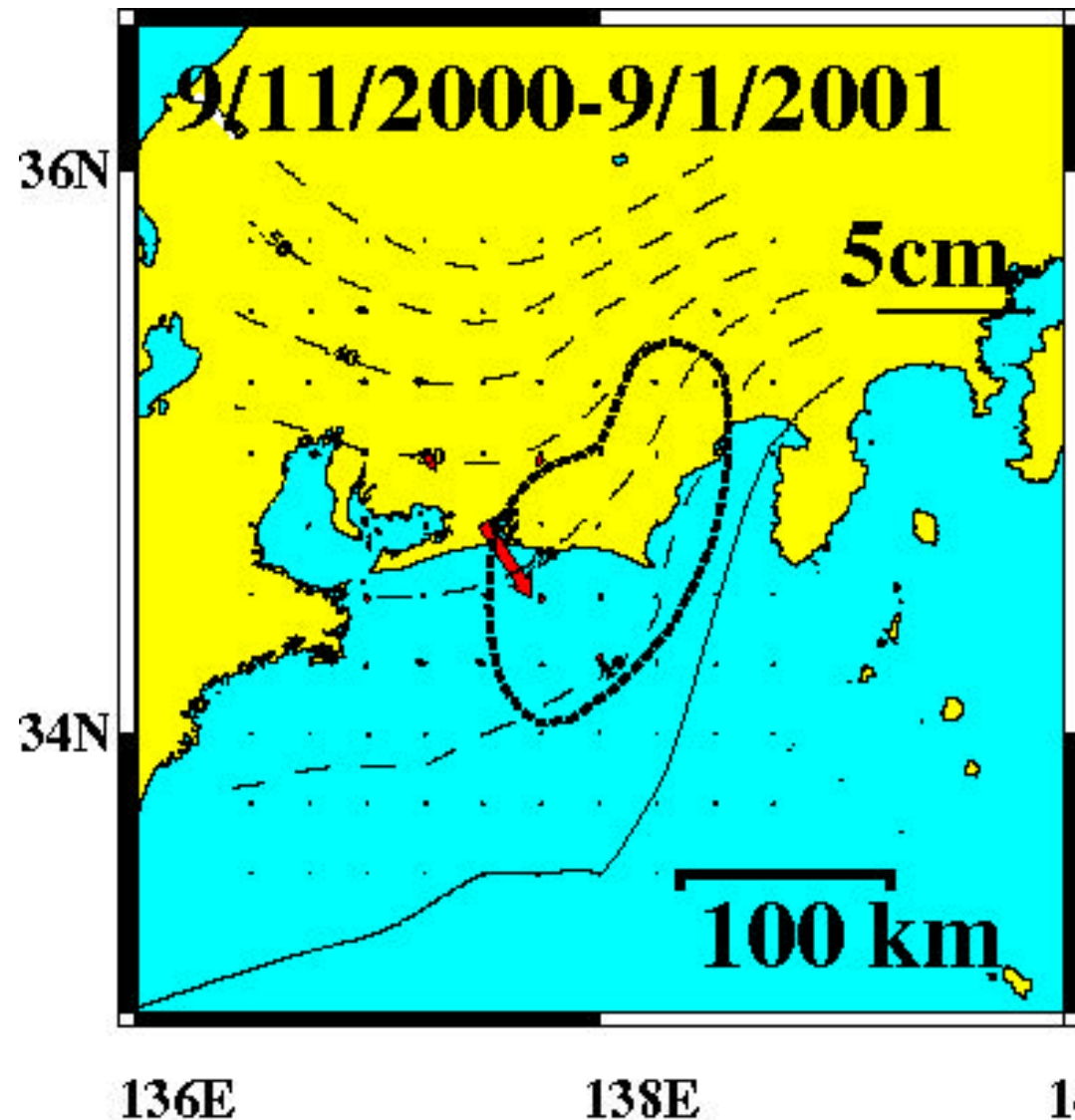
Location of used GPS sites



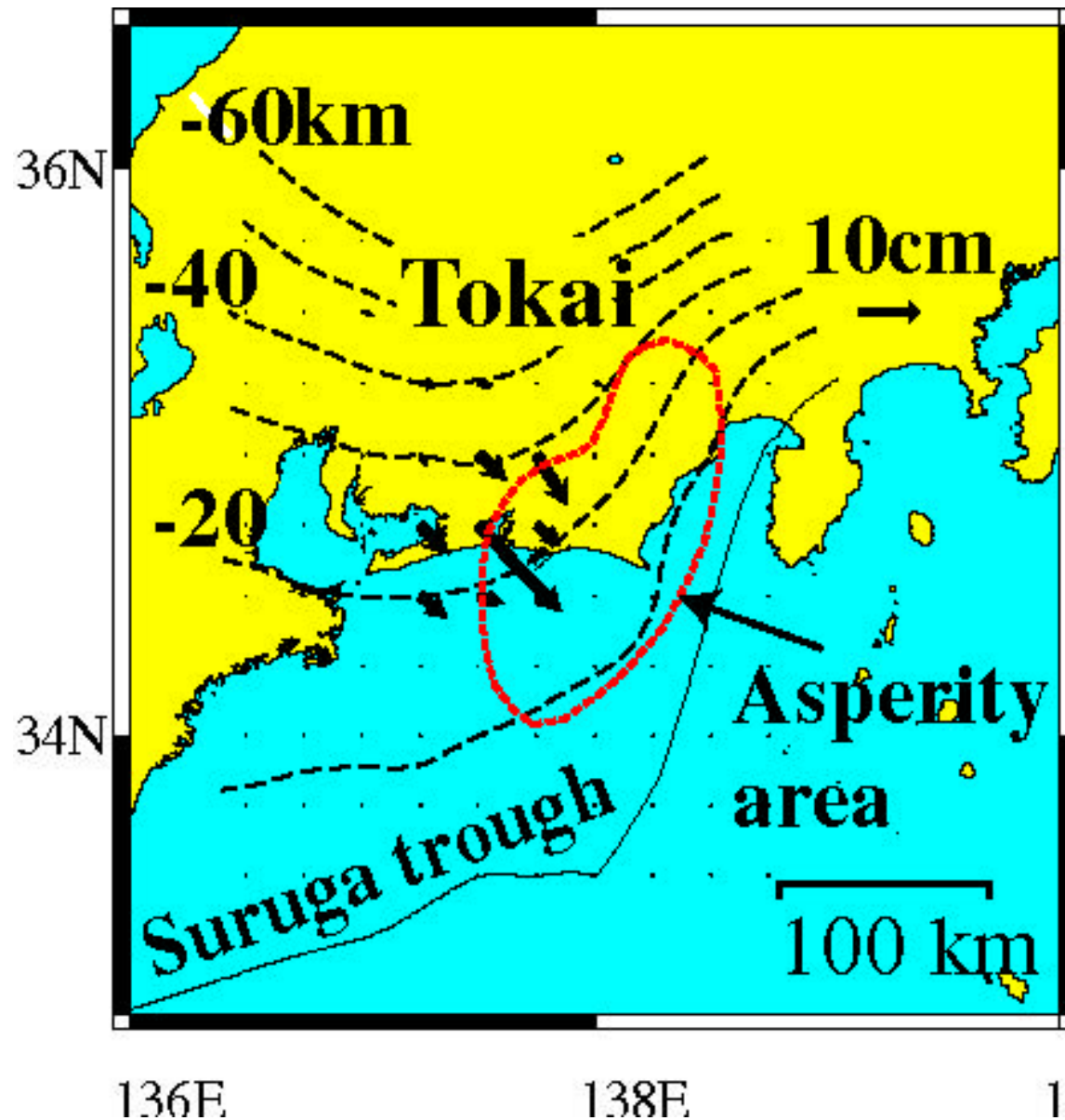
10/1/2000-9/15/2002



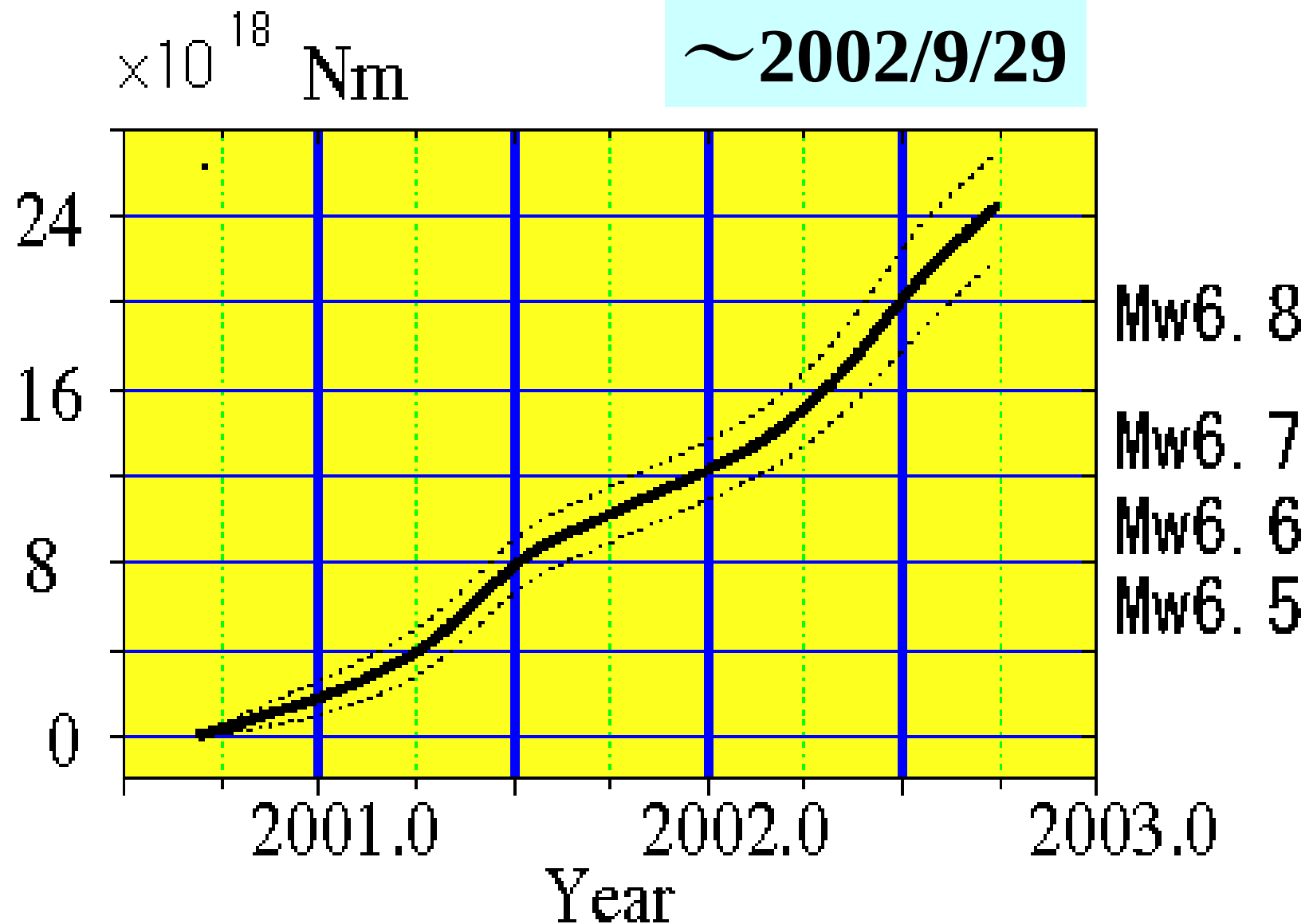
Time evolution of slip history



10/1/2000-9/15/2002

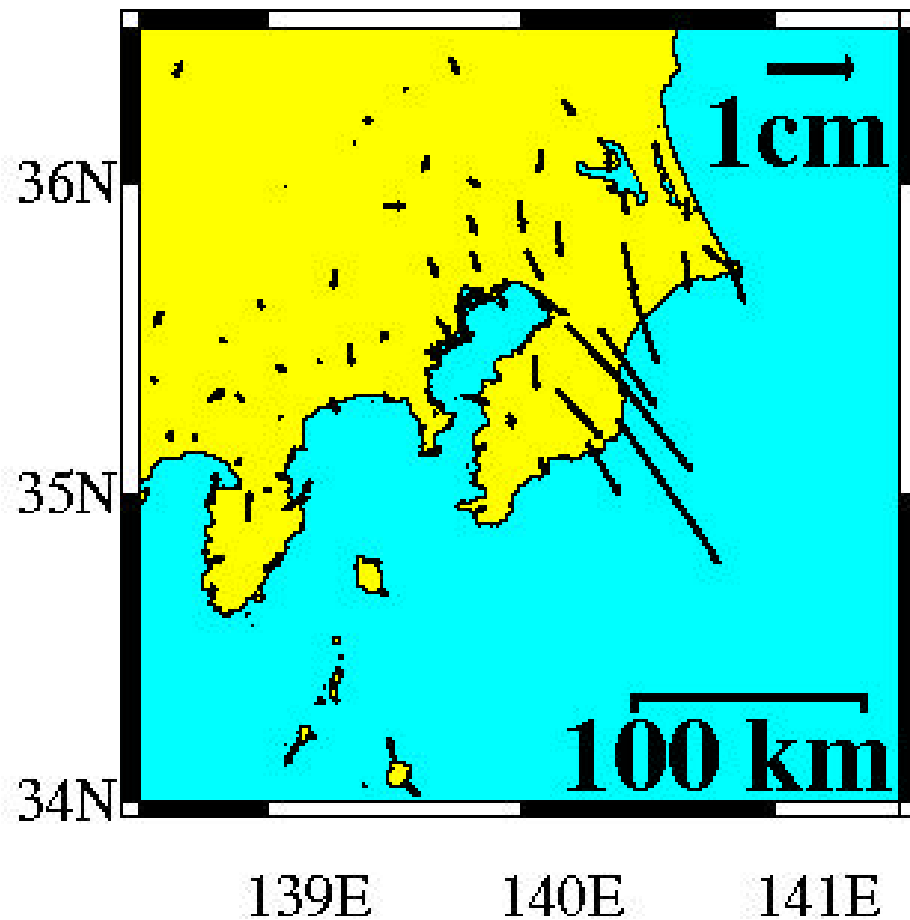


Time Evolution of Estimated Moment

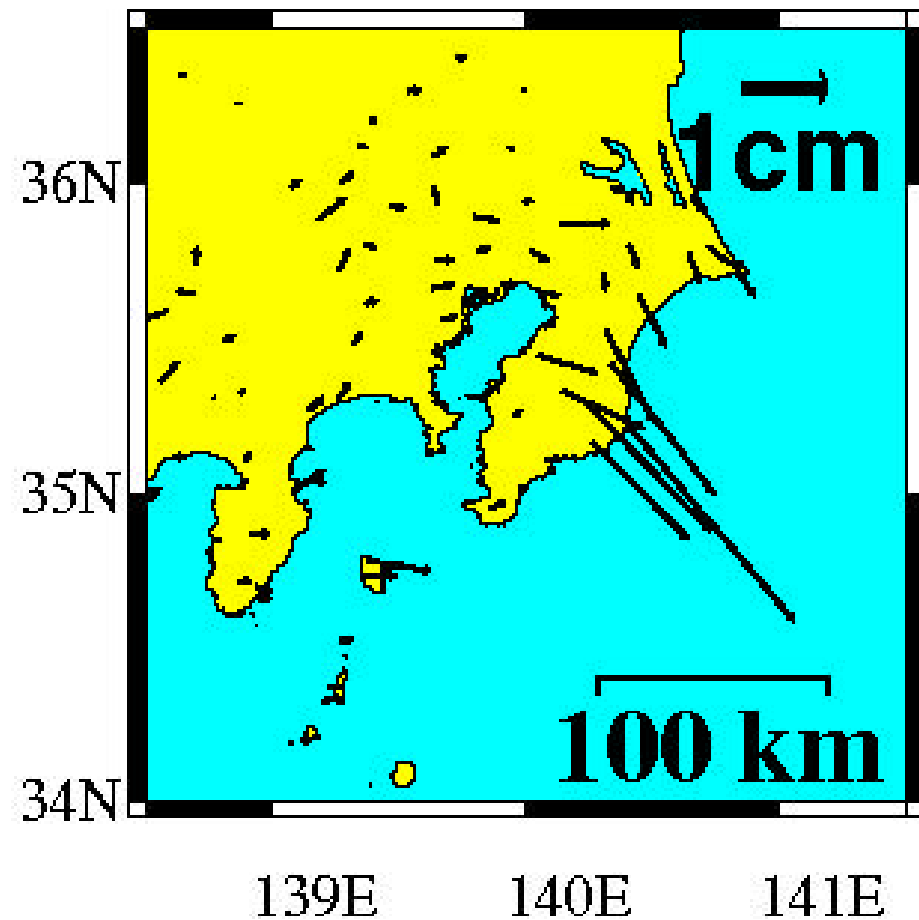


Boso Aseismic Interplate Slip

4/1/1996-6/1/1996

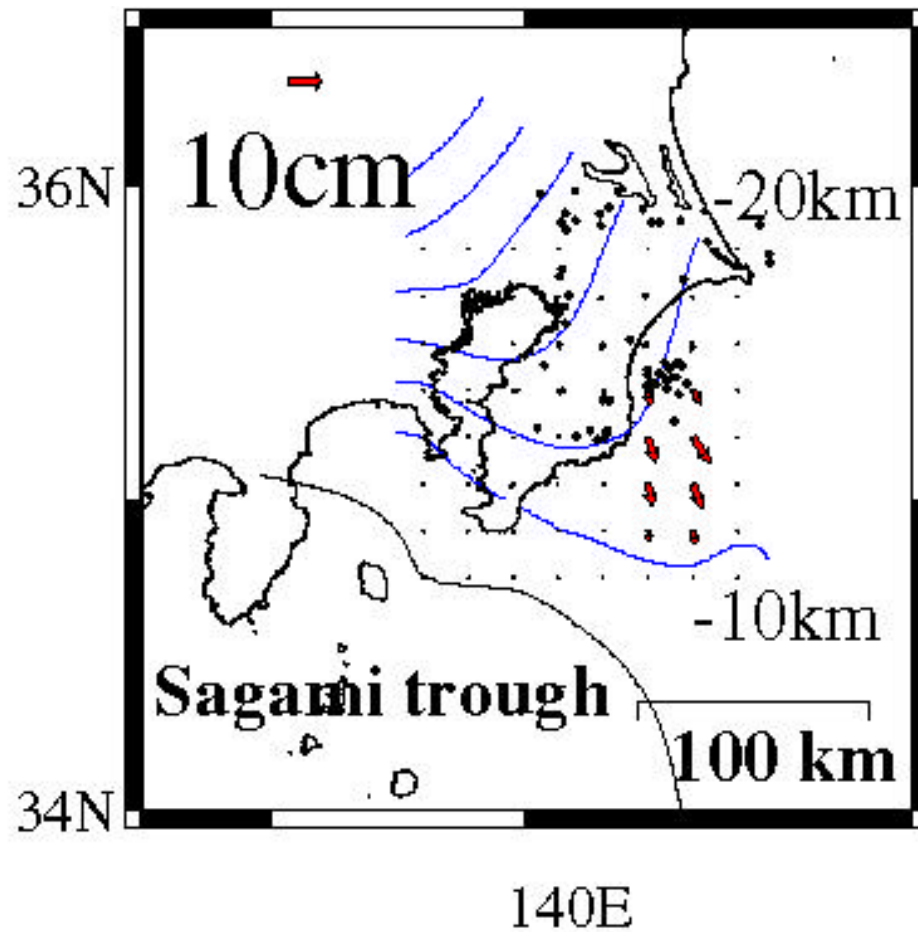


9/1/2002-10/30/2002



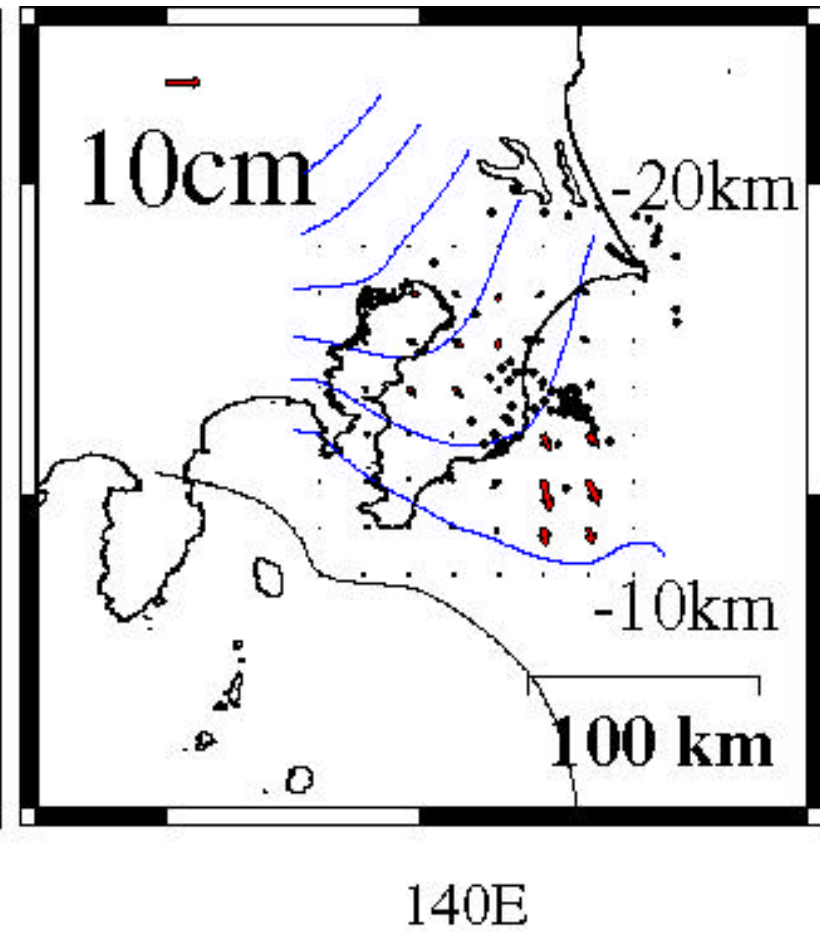
1996 silent earthquake

5/15-5/22/1996



2002 event

10/1-10/22/1996



Hypocenter data from JMA

Summary and Discussion

1. Anomalous crustal deformation

- **Southeastward motion
(centering on Lake Hamana)**

2. Time dependent inversion

- **Slip in the western Tokai**
- **Still continuing (Mw6.8)**