

## Post-Conference Field Trip (Sendai to Niigata) 12<sup>th</sup> November to 15<sup>th</sup> November, 2008

A field trip lasting of three and half days is scheduled immediately after the International Conference from 12th to 15th November 2008. This trip will be based upon a traverse route across the Island Arc of Northeast Japan from the Pacific to the Japan Sea coasts (Fig.1). This trip shows participants panoramic landscape and landslides in Northeast Japan Arc. It consists of two zones trending north to south, Outer and Inner arcs, respectively. Outer arc composed of Mesozoic strata was separated from Eurasian continent since Eocene and has drifted to the present position, causing an opening of Japan Sea. Inner arc is composed of tuffaceous marine sediments of Tertiary Period due to acidic volcanism subsequent to the opening of Japan Sea.

The participants will observe a wide range of landslide sites distributed in a zone of marine sediments of Oligocene to Pliocene ages, and pass across the Back-bone Range. Various types of monitoring systems and mitigation works for the large-scale landslides will be shown to the participants, who will also have an opportunity to view the Mt. Bandai that was collapsed by phreatic explosion in 1888. The final destination of this field trip will be northern Uonuma Hill, which was severely affected by landslides due to the Mid-Niigata earthquake in 2004.

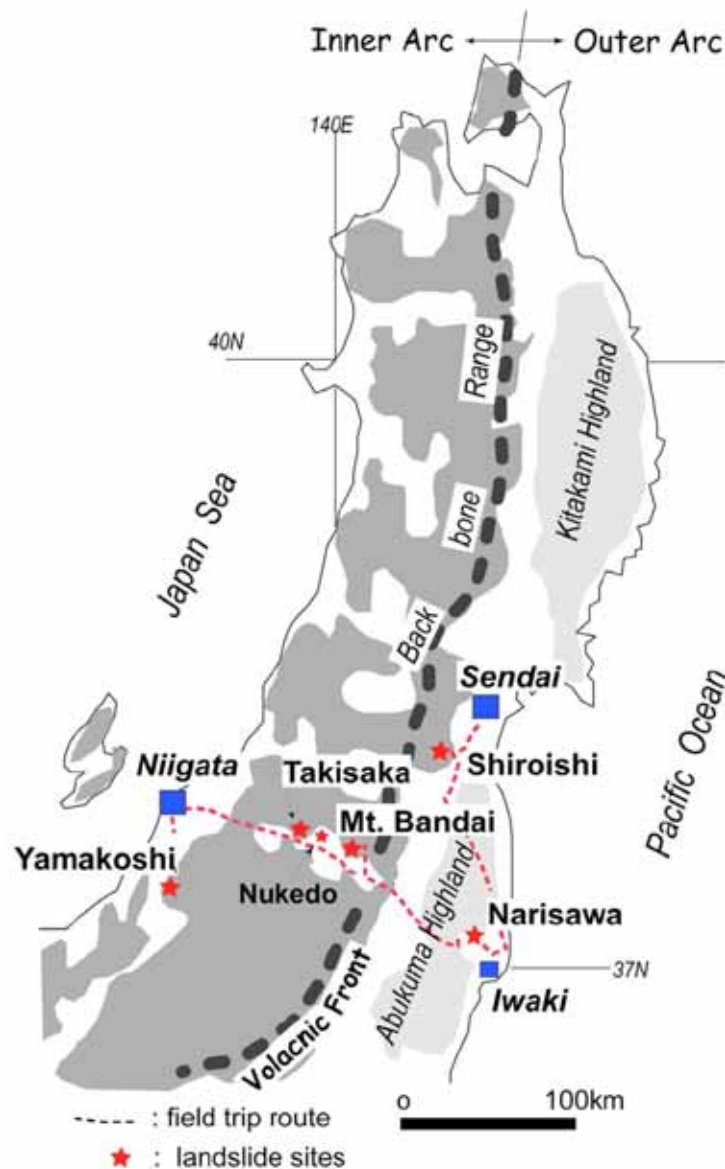


Fig. 1: Route map of the Field Trip

## Tentative Schedule

Date: 12th November, 2008 (after lunch)

Route: Sendai – Iwaki via Tohoku & Ban-etsu highway

Observation Spot: Oikubo landslide, Shiroishi (Pic.1). The landslide occurred in 2007 and approximate dimension is about 200m x 500m.



**Pic. 1: Shiroishi – Oikubo landslide (Source: Japan Landslide Society)**

Date: 13th November, 2008

Route: Iwaki – Ura Bandai

Observation Spots: Narisawa Landslide (Pic. 2) and Mt. Bandai (Pic. 3)



**Pic. 2: Narisawa Landslide (Source: Fukushima Pref. Gov.)**

During the field excursion we cross the Abukuma Highland and Backbone Range – Inawashiro and observe the collapsed sector of Mt. Bandai due to phreatic explosion in 1888 at Ura Bandai (northern mountain foot of Mt Bandai) and stay just beside the landslide lake.



**Pic. 3: Landslide lakes and flow mounds due to sector collapse of Mt. Bandai in 1888**

Date: 14th November, 2008

Route: Ura Bandai – Inawashiro – Niigata City

Observation Spots: Nukedo Landslide, Takisaka Landslide (Pic. 4)

The field excursion includes tunneling site for ground water draining in Takisaka Landslide.



**Pic. 4: Takisaka landslide and Agano River**  
(Source: Agano River Office, Ministry of Land, Infrastructure and Transport, Japan)

Date: 15th November, 2008

Route: Niigata City – Nagaoka (Niigata Prefecture)

Observation Spots: Landslides at Uonuma hills (Yamakoshi area) (Pic. 5).

The landslides are earthquake induced landslides produced by the Mid-Niigata Earthquake in 2004.



**Pic. 5: Landslide at Yamakoshi area due to the Mid-Niigata earthquake 2004**

Note: The organizer will provide accommodation to the excursion participants from 12<sup>th</sup> November to 14<sup>th</sup> November 2008.