



Linkages among tectonics, seismicity, magma genesis and eruption in volcanic arcs.

Institute of Volcanic Geology and Geochemistry FED RAS and Kamchatkan Experimental Methodical
Seismological Department of Geophysical Service RAS
Petropavlovsk-Kamchatsky, August 21st-27th, 2004

FIRST CIRCULAR

Objectives:

The 4th international workshop on the Kurile-Kamchatka-Aleutian volcanic arcs, among the most active of volcanic areas in the Pacific region including oceanic-continental transitions, will be held August 21st-27th, in Petropavlovsk-Kamchatsky, Russia. The dynamic regimes of these zones will give us an understanding of along-strike changes in parameters of subduction and how these impact volcanism, tectonics and seismicity. This understanding will allow the further development of models for subduction zone processes. The interdisciplinary and international nature of the workshop brings scientists from varying fields together across political boundaries. The fusion of many geophysical techniques in this unique natural laboratory will allow us to more effectively monitor and mitigate its volcanic and tectonic hazards.

The workshop will consider geodynamics of the Kurile-Kamchatka-Aleutian volcanic arcs, magma genesis and tectonics, subduction seismicity, volcanic eruption mechanisms, seismicity of volcanic centers and volcanic hazards. Themes for special discussion are

- Ongoing eruptions and recent major earthquakes,
- Remote sensing monitoring and research, and
- Volcanic and tectonic deformation.

A special volume detailing the current state of knowledge of North Pacific subduction processes will be produced after the workshop.

Steering committee:

Boris Ivanov (IVGG) and Evgenii Gordeev (KEMSD), Petropavlovsk-Kamchatsky, Russia
Minoru Kasahara and Mitsuhiro Nakagawa, Sapporo, Japan
John Eichelberger and Jon Dehn, Fairbanks, AK, USA

Local organizing committee:

IVGG : Boris Ivanov (chairman), Alexander Vikulin, Vladimir Rashidov, Olga Girina, Oxana Evdokimova, and Ivan Melekestzev.
KEMSD : Evgenii Gordeev, Victor Chebrov, Vadim Saltykov, and Yulia Kugaenko.

Form of Workshop:

Conveners will begin the workshop session with a 30-minute oral presentation review focused on volcanism of the island arcs. Invited speakers are asked to talk for 20 minutes. Poster presentations are welcome, no more than two from a participant.

Meeting venue:

Institute of Volcanic Geology and Geochemistry FED RAS (IVGG) and Kamchatkan Experimental Methodical Seismological Department (KEMSD), Petropavlovsk- Kamchatsky (PK).

Excursions:

Mutnovsky volcano, Avachinsky volcano and helicopter trip over Eastern Kamchatka.

Transportation :

Magadan Airlines flies each Friday from Petropavlovsk to Anchorage and back to Petropavlovsk on Saturday. There are daily flights between Moscow and Petropavlovsk, as well as frequent flights from Khabarovsk and Vladivostok.

Weather :

August in PK is generally sunny with occasional rain and temperature +18 C, however, except for a possibility of heavy rain.

Costs:

We anticipate that costs for food and lodging will average about \$100/day. There will also be a registration fee of about \$250 to cover group events and transportation.

Accommodation:

Hotels “Edelweiss”, “Petropavlovsk”, “Avacha” and “Oktyabrskaya” are available. The cheapest suite fee is around \$62 at the “Edelweiss” with basic facilities and is in easy walking distance to the IVGG and KEMSD location.



Night image of Klyuchevskoy, Kamchatka, Russia; October 4, 2003; photo by Yuri Demyanchuk, Kamchatkan Experimental-Methodical Seismological Department

Financial support:

The organizers anticipate support by the Far East Division of Russian Academy of Science (FED RAS), Russian Foundation for Basic Research (RFBR), Minpromnauka of Russian Federation, US Geological Survey (USGS), National Scientific Foundation (NSF), National Aeronautical and Space Administration (NASA), and the UAF Geophysical Institute (UAF/GI) and International Arctic Research Center (UAF/IARC).

If you are interested in receiving subsequent circulars on this meeting, please send an e-mail to jkasp@gi.alaska.edu.

Russian participation will be coordinated by Oxana Evdokimova (kvert@kcs.iks.ru).

Japan participation will be coordinated through Hokkaido University by Minoru Kasahara (mkasa@eos.hokudai.ac.jp) and Mitsuhiro Nakagawa (nakagawa@ep.sci.hokudai.ac.jp).

Participation of all other countries will be coordinated through AVO/GI/UAF by Jon Dehn (jdehn@gi.alaska.edu) and Pavel Izbekov (pavel@gi.alaska.edu).

The updated information will be posted at www.avo.alaska.edu/kasp