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Department of Geosciences and Geography  
Annakaisa Korja / Principal Investigator  
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## Employment

### Research Director

Department of Geosciences and Geography  
University of Helsinki  
Finland  
1 Jan 2018 → present

### Helsinki Institute of Sustainability Science (HELSUS)

University of Helsinki  
Helsingin yliopisto, Finland  
1 Jan 2018 → present

### Helsinki Institute of Urban and Regional Studies (Urbaria)

University of Helsinki  
Helsinki, Finland  
18 Dec 2017 → present

### Supervisor for doctoral programme

Doctoral Programme in Geosciences  
University of Helsinki  
Finland  
1 Jan 2014 → present

### State geophysicist

Geological Survey of Sweden  
Sweden  
1 Jan 1996 → 1 Aug 1997

### junior research fellow

University of Oulu, Oulu  
Finland  
1 May 1992 → 1 Dec 1995

### Junior researcher fellow

Geological Survey of Canada  
Canada  
1 May 1991 → 1 May 1992

### Junior research fellow

University of Oulu, Oulu  
Finland  
1 Jan 1989 → 1 May 1991

## Geophysicist

Geological Survey of Finland  
Espoo, Finland  
1 May 1988 → 1 Oct 1989

## Qualifications

Management, Specialist qualification in management, Liikemiesten kauppapisto  
Award Date: 1 Apr 2010

Tectonics, Docent, University of Helsinki  
Award Date: 1 Apr 2003

## Principal Investigator

Period : 01.12.2009 - \* in Department of Geosciences and Geography

## Research community

## Research Infrastructure Projects

### OPEN-FIRE: Finnish Reflection Experiment – FIRE avoimesti verkkoon

Korja, A. (Project manager), Heinonen, A. (Participant), Aalto, A. (Participant), Väkevä, S. (Participant) & Heikkinen, P. (Project manager)  
01/01/2016 → 31/12/2017  
Project: Other project

### EPOS-IP: EPOS Implementation Phase

Korja, A. (Principal Investigator) & Kontkanen, P. (Participant)  
01/10/2015 → 31/10/2018  
Project: Other project

### FIN-EPOS - a Finnish national initiative of the European Plate Observing System

Korja, A. (Principal Investigator), Heikkinen, P. (Project manager), Kukkonen, I. (Project manager), Whipp, D. (Participant), Muinonen, K. (Participant), Poutanen, M. (Project manager), Tanskanen, E. (Project manager), Kozlovskaya, E. (Project manager), Korja, T. (Participant), Lecarpentier, D. (Participant), Merimaa, M. (Participant) & Mertanen, S. (Participant)  
01/02/2013 → ...  
Project: Other project

### FIN-EPOS-Seismo: Seismisen asemaverkon laajennus; FIRI-omarahoitusosuus

Korja, A. (Principal Investigator), Lindblom, P. (Participant), Tiira, T. (Participant), Komminaho, K. (Participant) & Kortström, J. (Participant)  
01/01/2015 → 31/01/2018  
Project: Other project

### FIN-EPOS-Seismo: Upgrading Finnish national seismic network FIRI2014

Korja, A. (Principal Investigator), Lindblom, P. (Participant), Tiira, T. (Participant), Kortström, J. (Participant), Kozlovskaya, E. (Participant) & Mäntyniemi, P. (Project manager)  
01/01/2015 → 31/12/2017  
Project: Other project

### OBF: Pyhäjoki seismic network

Korja, A. (Principal Investigator), Tiira, T. (Project manager), Uski, M. (Participant), Kortström, J. (Participant), Valtonen, O. (Participant) & Vuorinen, T. (Participant)  
15/10/2011 → ...  
Project: Other project

## Geopiste

Hellemaa, P. (Project manager), Ratvio, R. (Other), Houtsonen, O. (Participant), Johansson, T. (Participant), Korja, A. (Participant), Kosonen, K. (Participant), Luoto, M. (Participant), Ruth, O. (Participant), Paarlahti, A. (Participant), Heikkilä,

P. (Participant) & Kati, I.-V. (Participant)  
01/01/2009 → 31/05/2015  
Project: Other project

## Research Projects

### **Etelä-Suomen alueen seismiset lähdealueet; Seismic source areas in Southern Finland**

Korja, A. (Principal Investigator), Mäntyniemi, P. (Participant), Uski, M. (Participant) & Oinonen, K. (Participant)  
01/03/2015 → 31/03/2016  
Project: Research project

### **Evaluating seismic hazard for Pyhäjoki nuclear power plant**

Korja, A. (Principal Investigator), Tiira, T. (Participant), Mäntyniemi, P. (Participant), Uski, M. (Participant), Valtonen, O. (Participant), Kosonen, E. (Other), Laine, M. (Other), Mikko, N. (Participant), Huotari-Halkosaari, T. (Participant), Airo, M. (Participant), Sutinen, R. (Participant), Högdahl, K. (Participant), Lund, B. (Participant), Stephens, M. (Participant) & Grigull, S. (Participant)  
01/03/2013 → 31/05/2016  
Project: Research project

### **Compilation of seismic database and seismic hazard assessment in northern Finland**

Korja, A. (Principal Investigator), Kortström, J. (Participant), Lindblom, P. (Participant), Mäntyniemi, P. (Participant), Uski, M. (Participant) & Valtonen, O. (Participant)  
01/01/2011 → 31/12/2012  
Project: Research project

### **Evolution of the 3D structure of the Svecofennian bedrock**

Korja, A. (Other)  
25/08/2009 → ...  
Project: Research project

### **MIDCRUST: MIDCRUST - Three dimensional evolution of the middle crust in Central Fennoscandia**

Korja, A. (Principal Investigator), Rämö, T. (Project manager), Hölttä, P. (Project manager), Korja, T. (Project manager), Kärki, A. (Project manager), Eklund, O. (Project manager), Nikkilä, K. (Participant), Kurhila, M. (Participant) & Chopin, F. (Project manager)  
01/01/2011 → 31/12/2014  
Project: Research project

### **Three dimensional deformation of the crust**

Korja, A. (Project manager), Kilpeläinen, T. (Project manager), Susi, H. (Participant), Lammi, M. (Participant), Valtonen, O. (Participant) & Torvela, T. (Participant)  
K.H. Renlundin säätiö  
17/05/2010 → 31/12/2012  
Project: Research project

### **Development and applications of new methods in seismic research**

Tiira, T. (Principal Investigator), Korja, A. (Participant), Komminaho, K. (Participant), Vuorinen, T. (Project manager) & Kortström, J. (Project manager)  
01/01/2010 → ...  
Project: Research project

### **Structure and evolution of the Eurasian plate**

Tiira, T. (Principal Investigator), Korja, A. (Project manager), Heikkinen, P. (Project manager) & Komminaho, K. (Participant)  
01/01/2005 → ...  
Project: Research project

### **HUKKA07**

Tiira, T. (Project manager), Korja, A. (Participant), Komminaho, K. (Participant), Grad, M. (Participant), Janik, T. (Participant), Kozlovskaya, E. (Participant), Hegedus, E. (Participant), Kovács, C. A. (Participant), Brückl, E. (Participant)

& Silvennoinen, H. (Participant)  
01/01/2007 → 30/11/2014  
Project: Research project

## Research networks

### **EPOS (External organisation)**

Korja, A. (Member), Kontkanen, P. (Member) & Vuorinen, T. A. T. (Member)  
2012 → ...

### **FIN-EPOS (External organisation)**

Korja, A. (Chair)  
2013 → ...

### **MIDCRUST (External organisation)**

Korja, A. (Chair)  
2011 → ...

### **University reserach consortium (External organisation)**

Korja, A. (Chair)  
2009 → ...

### **Nordplus/ NordForsk network (External organisation)**

Korja, A. (Chair)  
2006 → 2008

### **IODP proposal network (External organisation)**

Korja, A. (Chair)  
2004 → 2006

### **EUROPROBE/ESF (External organisation)**

Korja, A. (Board member)  
1998 → 2010

## MScThesis supervision

### **pro gradu / Hannu Lammi**

Korja, A. (Supervisor)  
2013 → 2015

### **pro gradu / Niina Hellqvist**

Korja, A. (Supervisor)  
2012 → 2013

### **pro gradu / Paula Koskinen**

Korja, A. (Supervisor)  
2012 → 2013

### **pro gradu/ Henrik Vesterinen**

Korja, A. (Co-supervisor)  
2012 → 2013

### **pro gradu / Helena Susi**

Korja, A. (Supervisor)

2011 → 2013

**pro gradu / Tuulia Häkkinen**

Korja, A. (Supervisor)

May 2010

**pro gradu / Outi Valtonen**

Korja, A. (Supervisor)

2010 → 2011

**pro gradu / Kati Karkkulainen**

Korja, A. (Supervisor)

2004 → 2008

**pro gradu / Minna Kuusisto**

Korja, A. (Supervisor)

2001 → 2003

## **PhD supervision**

**Kaisa Nikkilä**

Korja, A. (Supervisor)

2011 → 2016

## **Postdoctoral mentor**

**Francis Chopin/ Structural and metamorphic evolution of the Vaasa dome**

Korja, A. (Supervisor)

2012 → 2015

**Matti Kurhila/ Granitoid magmatism of the middle crust**

Korja, A. (Supervisor)

2011 → 2012

**Paula Kosunen/ Granite magmatism in Central Finland granitoid complex**

Korja, A. (Supervisor)

2004 → 2007

## **Membership in national/international committee, council, board**

**EPOS IPC (External organisation)**

Korja, A. (Member)

2015 → 2016

**EPOS BNSR (External organisation)**

Korja, A. (Chair)

2016 → 2018

**Vetenskapsrådet (External organisation)**

Korja, A. (Board member)

Apr 2017 → Mar 2020

**IUGG national committee (External organisation)**

Korja, A. (Member)

2015 → 2018

**Suomen kansallinen geologian komitea (External organisation)**

Korja, A. (Member)

2015 → 2016

**National publication forum, Panel 5 (External organisation)**

Korja, A. (Chair)

2014 → 2017

**EPOS IAPC (External organisation)**

Korja, A. (Member)

2013 → 2014

**Geopiste (External organisation)**

Korja, A. (Board member)

2010 → 2013

**IODP / ESSAC (External organisation)**

Korja, A. (Member)

1 Jan 2007 → 31 Dec 2007

**IODP/STP/ECORD (External organisation)**

Korja, A. (Member)

1 Jan 2006 → 31 Dec 2006

**IODP/SMP/ECORD (External organisation)**

Korja, A. (Member)

1 Jan 2005 → 31 Dec 2005

**Membership in a public or international organization**

**Maanpuolustuskorkeakoulu (External organisation)**

Korja, A. (Board member)

2019 → 2024

**EMSC European Mediterranean Seismological Center (External organisation)**

Korja, A. (Board member)

2015 → 2017

**IASPEI -International Association of Seismology and Physics of the Earth's Interior (External organisation)**

Korja, A. (Member)

2015 → 2018

**ISC - International Seismological Center (External organisation)**

Korja, A. (Board member)

2015 → 2017

**ORFEUS Board of Directors (External organisation)**

Korja, A. (Member)

2015 → 2017

**Geological Society of Finland (External organisation)**

Korja, A. (Chair)

1 Jan 2015 → 12 Dec 2015

**Nordiskt vulkanologiskt centrum (NORDVULK) programkommitté (External organisation)**

Korja, A. (Member)  
2014 → 2020

**Råd för infrastruktur VR RFI BG3 (External organisation)**

Korja, A. (Member)  
2014 → 2020

**Kumpulan kampusen neuvotelukunta (External organisation)**

Korja, A. (Member)  
2010 → 2013

**Faculty of Science (Organisational unit)**

Korja, A. (Member)  
2010 → 2014

**Faculty of Science (Organisational unit)**

Korja, A. (Member)  
2010 → 2017

**Etelämannertutkimuksen koordinaatioryhmä (External organisation)**

Korja, A. (Member)  
2007 → 2014

**Institute of Seismology (Organisational unit)**

Korja, A. (Member)  
2005 → 2009

**Finnish National support group of IODP and ICDP (External organisation)**

Korja, A. (Board member)  
2004 → 2014

**Nordic Volcanological Institute (External organisation)**

Korja, A. (Board member)  
2002 → 2012

## **Membership in body in private organization**

### **A1 Refereed journal articles**

**In Memoriam: Professori Jorma Kalliokoski**

Korja, A., Dec 2024, In: Geologi. 76, 6, p. 199-200 2 p.

**SEISMIC RISK - Kaupunkialueiden indusoidun seismisen riskin hallinta -hanke laajentaa geotermisen energian vaikutusten ymmärrystä**

Metsalo, K., Bäcklund, P. & Korja, A., 16 Feb 2024, In: Geologi. 1, p. 13-17 5 p.

**Geoterminen energia ja politiikkaongelmien hallitsemisen tiedollinen haaste**

Tuomisaari, J. M., Junno, N., Bäcklund, P. & Korja, A., 23 Jun 2022, In: Alue ja ympäristö. 51, 1, p. 21-39 19 p.

### **Full-Scale Crustal Interpretation of Kokkola–Kymi (KOKKY) Seismic Profile, Fennoscandian Shield**

Tiira, T., Janik, T., Skrzynic, T., Komminaho, K., Heinonen, A., Veikkolainen, T., Väkevä, S. & Korja, A., Aug 2020, In: Pure and applied geophysics : PAGEOPH. 177, p. 3775-3795 21 p.

### **The Vaasa Migmatitic Complex (Svecofennian Orogen, Finland): Buildup of a LP-HT Dome During Nuna Assembly**

Chopin, F., Korja, A., Nikkila, K., Holtta, P., Korja, T., Zaher, M. A., Kurhila, M., Eklund, O. & Ramo, T., Mar 2020, In: Tectonics. 39, 3, 25 p., ARTN e2019TC005583.

### **Emplacement and 3D geometry of crustal-scale saucer-shaped intrusions in the Fennoscandian Shield**

Buntin, S., Malehmir, A., Koyi, H., Hogdahl, K., Malinowski, M., Larsson, S. A., Thybo, H., Juhlin, C., Korja, A. & Gorszczyk, A., 19 Jul 2019, In: Scientific Reports. 9, 11 p., 10498.

### **OpenFIRE – Suomen syvyydet avataan verkkoon**

Heinonen, A., Aalto, A., Väkevä, S., Heikkinen, P. J. & Korja, A., 2017, In: Geologi. 69, 3, p. 92–97 6 p.

### **Three stages to form a large batholith after terrane accretion: An example from the Svecofennian orogen**

Nikkilä, K., Mänttari, I., Nironen, M., Eklund, O. & Korja, A., Aug 2016, In: Precambrian Research. 281, p. 618-638 21 p.

### **Local seismic network for monitoring of a potential nuclear power plant area**

Tiira, T. E., Uski, M. R., Kortström, J. T., Kaisko, O. S. & Korja, A., Apr 2016, In: Journal of Seismology. 20, 2, p. 397-417 21 p.

### **Analog modeling of one-way gravitational spreading of hot orogens: A case study from the Svecofennian orogen, Fennoscandian Shield**

Nikkilä, K. M., Korja, A., Koyi, H. & Eklund, O., 29 Jul 2015, In: Precambrian Research. 2015, 268, p. 135-152 18 p.

### **Crustal Architecture of the Inverted Central Lapland Rift Along the HUKKA 2007 Profile**

Tiira, T., Janik, T., Kozlovskaya, E., Grad, M., Korja, A., Komminaho, K., Hegedus, E., Kovacs, C. A., Silvennoinen, H. & Bruckl, E., Jul 2014, In: Pure and applied geophysics : PAGEOPH. 171, 7, p. 1129-1152 24 p.

### **The mode of extension in the orogenic mid-crust revealed by seismic attribute analysis**

Torvela, T., Moreau, J., Korja, A., Heikkinen, P. & Butler, R. W. H., 29 Apr 2013, In: Geochemistry, geophysics, geosystems G<sup>3</sup>. 14, 4, p. 1069–1086 18 p.

### **News from ECORD Member countries: Finland**

Strand, K. & Korja, A., Apr 2013, In: ECORD Newsletter - European Consortium for Ocean Research Drilling. 20, p. 21 1 p.

### **Optimal configuration of a micro-earthquake network**

Valtonen, O., Uski, M., Korja, A., Tiira, T. & Kortström, J., 2013, In: Advances in Geosciences. 34, p. 33-36 4 p.

### **Examining three-dimensional crustal heterogeneity in Finland**

Korja, A., Hyvönen, T., Tiira, T. & Heikkinen, P., 15 Apr 2009, In: Eos. 90, 15, p. 129-136 3 p.

### **A letter from Finland**

Strand, K., Korja, A. & Kanto, E., 2009, In: ECORD Newsletter - European Consortium for Ocean Research Drilling. 13, p. 15 1 p.

### **Elämjärven hirtovyöhyke, osa II - lineaatit ja kuoren kehitystulkinta**

Kilpeläinen, T., Korja, A. & Paavola, J., 2008, In: Geologi. 60, p. 34-43 10 p.

### **A tomographic crustal velocity model of the central Fennoscandian shield**

Hyvönen, T., Tiira, T., Korja, A., Heikkinen, P., Rautioaho, E., SVEKALAPKO Seismic Tomography Working Group & Komminaho, K., 2007, In: Geophysical Journal International. 168, 3, p. 1210-1226 17 p.



**Influence of the seismic noise characteristics on noise correlations in the Baltic shield**

Pedersen, H. A., Kruger, F., Heikkinen, P., Hyvönen, T., Korja, A. & SVEKALAPKO Seismic Tomography Working Group, 2007, In: Geophysical Journal International. 168, p. 197-210 14 p.

**IODP-ohjelman mahdollisuudet Suomelle**

Strand, K., Korja, A. & Junttila, J., 2006, In: Geologi. 58, 5, p. 188-190 3 p.

**Lithospheric and sublithospheric anisotropy beneath the Baltic Shield from surface-wave array analysis**

Pedersen, H. A., Bruneton, M., Maupin, V., Heikkinen, P., Hyvönen, T., Komminaho, K., Korja, A. & SVEKALAPKO Seismic Tomography Working Group, 2006, In: Earth and Planetary Science Letters. 244, 3-4, p. 590-605 16 p.

**Milloin laattatektoniikka alkoi?**

Peltonen, P., Korja, A. & Heikkinen, P., 2006, In: Geologi. 58, 5, p. 175-180 6 p.

**Proterozoic-Archean boundary in the mantle lithosphere of eastern Fennoscandia as seen by seismic anisotropy**

Plomerova, J., Babuska, V., Vecsey, L., Kozlovskaya, E., Raita, T., Heikkinen, P., Hyvönen, T., Komminaho, K., Korja, A. & SSTWG, 2006, In: Journal of Geodynamics. 41, 4, p. 400-410 11 p.

**The 2003 earthquake swarm in Anjalankoski, south-eastern Finland**

Uski, M., Tiira, T., Korja, A. & Elo, S., 2006, In: Tectonophysics. 422, p. 55-69 15 p.

**Indonesian luonnonkatastrofi: tietoa maanjäristyksistä ja hyökyaalloista**

Korja, A., Pesonen, L. J. & Beckmann, A., 2005, In: Geologi. 57, 2, p. 37-46 10 p.

**Miksi maapallo tärisee?**

Korja, A., Heikkinen, P. & Karkkulainen, K., 2005, In: Dimensio. 69, 4, p. 6-10 5 p.

**The accretionary Svecofennian orogen-insight from the BABEL profiles**

Korja, A. & Heikkinen, P., 2005, In: Precambrian Research. 136, 3-4, p. 241-268 28 p.

**3-D density model of the crust of southern and central Finland obtained from joint interpretation of the SVEKALAPKO crustal P-wave velocity models and gravity data**

Kozlovskaya, E., Elo, S., Hjelt, S.-E., Yliniemi, J., Pirttijärvi, M. & SVEKALAPKO Seismic Tomography Work, Sept 2004, In: Geophysical Journal International. 158, p. 827-848 22 p.

**Complex lithospheric structure under the central Baltic Shield from surface wave tomography**

Bruneton, M., Pedersen, H. A., Farra, R., Arndt, N. T., Vacher, P., Achauer, U., Alinaghi, A., Ansgorge, J., Bock, G., Friederich, W., Grad, M., Guterch, A., Heikkinen, P., Hjelt, S. E., Hyvonen, T. L., Ikonen, J. P., Kissling, E., Komminaho, K., Korja, A. & Kozlovskaya, E. & 16 others, Nevsky, M. V., Paulssen, H., Pavlenkova, N. I., Plomerova, J., Raita, T., Riznichenko, O. Y., Roberts, R. G., Sandoval, S., Sanina, I. A., Sharov, N. V., Shomali, Z. H., Tiikkainen, J., Wielandt, E., Wilegalla, K., Yliniemi, J. & Yurov, Y. G., 2004, In: Journal of Geophysical Research : Solid Earth. 109, p. - 15 p.

**High-resolution body wave tomography beneath the SVEKALAPKO array - II. Anomalous upper mantle structure beneath the central Baltic Shield**

Sandoval, S., Kissling, E., Ansgorge, J., Korja, A., SVEKALAPKO Seismic Tomography Work & Komminaho, K., 2004, In: Geophysical Journal International. 157, 1, p. 200-214 15 p.

**Layered lithospheric mantle in the central Baltic Shield from surface waves and xenolith analysis**

Bruneton, M., Pedersen, H. A., Vacher, P., Kukkonen, I. T., Arndt, N. T., Funke, S., Friederich, W., Farra, V., Korja, A., SVEKALAPKO Seismic Tomography Work & Komminaho, K., 2004, In: Earth and Planetary Science Letters. 226, 1-2, p. 41-52 12 p.

**Structure of the crust and uppermost mantle beneath southern Finland revealed by analysis of local events registered by the SVEKALAPKO seismic array**

Yliniemi, J., Kozlovskaya, E., Hjelt, S. E., Komminaho, K., Ushakov, A., Korja, A. & SVEKALAPKO Seismic Tomograph, 2004, In: Tectonophysics. 394, p. 41-67 27 p.

**Syväkairausta Itämerellä - haaveista totta tällä vuosituuhannella?**

Kotilainen, A., Hämäläinen, J., Kohonen, J., Korja, A., Mertanen, S., Ojala, J., Rämö, T., Sundblad, K. & Vaarma, M., 2004, In: Geologi. 56, 9-10, p. 204-207

**Upper mantle seismic discontinuities topography variations beneath eastern europe**

Swieczak, M., Grad, M., TOR Working Group & SVEKALAPKO Working Group, 2004, In: Acta geophysica Polonica. 52, 3, p. 251-270 20 p.

**Focal mechanisms of three earthquakes in Finland and their relation to surface faults**

Uski, M., Hyvonen, T., Korja, A. & Airo, M. L., 2003, In: Tectonophysics. 363, p. 141-157 17 p.

**High-resolution body wave tomography beneath the SVEKALAPKO array: I. A priori three-dimensional crustal model and associated travelttime effects on teleseismic wave fronts**

Sandoval, S., Kissling, E., Ansorge, J., Korja, A., SVEKALAPKO Seismic Tomography Work & Komminaho, K., 2003, In: Geophysical Journal International. 153, 1, p. 75-87 13 p.

**Receiver function analysis of the crust and upper mantle from the North German Basin to the Archaean Baltic Shield**

Alinaghi, A., Bock, G., Kind, R., Hanka, W., Wylegalla, K., Korja, A. & SVEKALAPKO Working Grp, TOR Working Grp, 2003, In: Geophysical Journal International. 155, p. 641-652 12 p.

**Non-linear surface wave phase velocity inversion based on ray theory**

Bruneton, M., Farra, V., Pedersen, H. A., Korja, A. & SVEKALAPKO Seismic Tomography Work, 2002, In: Geophysical Journal International. 151, p. 583-596 14 p.

**Crustal structure of the northern Baltic Sea palaeorift**

Korja, A., Heikkinen, P. & Aaro, S., 2001, In: Tectonophysics. 331, p. 341-358 18 p.

**Seismic probing of Fennoscandian lithosphere**

Bock, G., Achauer, U., Alinaghi, A., Ansorge, J., Bruneton, M., Friederich, W., Grad, M., Guterch, A., Hjelt, S.-E., Hyvönen, T., Ikonen, J. P., Kissling, E., Komminaho, K., Korja, A., Heikkinen, P., Kozlovskaya, E., Nevsky, M. V., Pavlenkova, N., Pedersen, H. & Plomerová, J. & 12 others, Raita, T., Riznichenko, O., Roberts, R. G., Sandoval, S., Sanina, I., Sharov, N., Tiikkainen, J., Volosov, S. G., Wielandt, E., Wylegalla, K., Yliniemi, J. & Yurov, Y., 2001, In: Eos. 82, 50, p. 628-629

**Crustal structure of the Baltic shield along the Pechenga-Kostomuksha-Lovisa geotraverse**

Mitrofanov, F. P., Sharov, N. V., Zagorodny, V. G., Glaznev, V. N. & Korja, A.-K., 1998, In: International Geology Review. 40, 11, p. 990-997 8 p.

**Upper crust of the BALTIC profile, Finland**

Korja, A., 1995, In: Report / University of Oulu, Department of Geophysics. 19, 19 p.

**GEOPHYSICAL INTERPRETATION OF THE CRUSTAL AND UPPER-MANTLE STRUCTURE IN THE WIBORG RAPA KIVI GRANITE AREA, SOUTHEASTERN FINLAND**

ELO, S. & KORJA, A., Dec 1993, In: Precambrian Research. 64, p. 273-288 16 p.

**SEISMIC AND GEOELECTRIC EVIDENCE FOR COLLISIONAL AND EXTENSIONAL EVENTS IN THE FENNOSCANDIAN SHIELD - IMPLICATIONS FOR PRECAMBRIAN CRUSTAL EVOLUTION**

KORJA, A., KORJA, T., LUOSTO, U. & HEIKKINEN, P., 1993, In: Tectonophysics. 219, p. 129-152 24 p.

## A2 Review in scientific journal

### **The GGT/SVEKA transect: Structure and evolution of the continental crust in the Paleoproterozoic Svecofennian orogen in Finland**

Korsman, K., Korja, T., Pajunen, M., Virransalo, P., Ekdahl, E., Elo, S., Haapala, I., Heikkinen, P., Hjelt, S. E., Hölttä, P., Huhma, H., Idman, H., Jokinen, J., Kähkönen, Y., Kilpeläinen, T., Koistinen, T., Komminaho, K., Kontinen, A., Korhonen, J. & Korja, A. & 31 others, Kousa, J., Kukkonen, I., Kurimo, M., Lahtinen, R., Leino, M. A. H., Lerssi, J., Lindkvist, K., Lukkarinen, H., Luosto, U., Luukas, J., Luukkonen, E., Malaska, J., Mertanen, S., Niemelä, R., Nironen, M., Paavola, J., Papunen, H., Peltonen, P., Pesonen, L., Pietikainen, K., Pihlaja, P., Rämö, O. T., Rastas, J., Ruotoistenmäki, T., Saavuori, H., Tervo, T., Tuisku, P., Vaasjoki, M., Väisänen, M., Wasenius, P. & GGT SVEKA Working Grp, 1999, In: *International Geology Review*. 41, 4, p. 287-333 47 p.

## A3 Contribution to book

### **BABEL3&3a: Crustal-Scale Structures of the Precambrian Svecofennian Accretionary Orogen in the Fennoscandian Shield**

Korja, A., Heikkinen, P. J., Tiira, T. & Nikkilä, K. M., 2018, *Atlas of Structural Geological Interpretation from Seismic Images*. Misra, A. A. & Mukherjee, S. (eds.). 1. ed. Chichester, U.K.: John Wiley & Sons Ltd. , p. 205-208 4 p.

### **BABEL4: Crustal Structures of the Precambrian Svecofennian Accretionary Orogen in the Fennoscandian Shield**

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### **BABEL7: Crustal-Scale Extension Associated with the Formation of the Baltic Sea Paleorift, Fennoscandian Shield**

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### **A case study of lateral spreading: the Precambrian Svecofennian Orogen**

Korja, A., Kosunen, P. & Heikkinen, P., 2009, *Extending a continent*. Ring, U. & Wernicke, B. (eds.). London: Geological Society of London, Vol. 321. p. 225-251 27 p. (Special publication; no. 321).

### **Palaeoproterozoic accretionary processes in Fennoscandia**

Lahtinen, R., Korja, A., Nironen, M. & Heikkinen, P., 2009, *Earth accretionary systems in space and time*. Cawood, P. A. & Kröner, A. (eds.). London, p. 237-256 20 p. (Geological Society Special publication; no. 318).

### **Seismic images of Paleoproterozoic microplate boundaries in the Fennoscandian Shield**

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### **The Svecofennian orogen: A collage of microcontinents and island arcs**

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### **Electrical conductivity and seismic velocity structures of the lithosphere beneath the Fennoscandian Shield**

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### **Paleoproterozoic tectonic evolution: chapter 11**

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### **Acquisition and geophysical characteristics of reflection seismic data on FIRE transects, Fennoscandian shield**

Kukkonen, I. T., Heikkinen, P., Ekdahl, E., Hjelt, S.-E., Yliniemi, J., Jalkanen, E., Korja, A., Tiira, T., Keskinen, J. & FIRE Working Group, 2006, *Finnish Reflection Experiment FIRE 2001-2005*. Kukkonen, I. T. & Lahtinen, R. (eds.). Espoo, p. 13-43 31 p. (Geological Survey of Finland, Special Paper; no. 42).

### **A geological interpretation of the upper crust along FIRE 2 and FIRE 2A**

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### **FIRE seismic reflection profiles 4, 4A and 4B: Insights into the crustal structure of northern Finland from Ranua to Näätämö**

Patison, N. L., Korja, A., Lahtinen, R., Ojala, V. J., Heikkinen, P., Tiira, T., Keskinen, J. & FIRE Working Group, 2006, *Finnish Reflection Experiment FIRE 2001-2005*. Kukkonen, I. T. & Lahtinen, R. (eds.). Espoo, p. 161-222 62 p. (Geological Survey of Finland, Special Paper; no. 43).

### **SVEKALAPKO tomographic experiment**

Sanina, I. A., Riznichenko, O. Y., Heikkinen, P., Hyvönen, T., Korja, A., SST Working Group & Komminaho, K., 2006, *Structure and dynamics of the lithosphere of eastern Europe*. Moscow: GEOKART; GEOS

## **C1 Published scientific monograph**

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### **OpenFIRE – enhancing the accessibility of the Finnish Reflection Experiment data products**

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### **Intraplate Seismicity in Central Fennoscandia**

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### **OBF-verkon toiminta ja seismiset havainnot vuonna 2013**

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## **Doctoral Thesis**

### **Conference contribution 2013-2017**

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