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Research Director, Supervisor for doctoral programme  
Department of Geosciences and Geography  
Institute of Seismology  
Doctoral Programme in Geosciences  
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Finland  
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## Qualifications

geophysics, PhD  
Award Date: 30 Jun 1998

physics, MSc, Department of Physics  
Award Date: 25 May 1989

## Principal Investigator

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

## Employment

### Research Director

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

### Institute of Seismology

University of Helsinki  
Finland  
1 Jan 2010 → present

### Supervisor for doctoral programme

Doctoral Programme in Geosciences  
University of Helsinki  
Finland  
1 Jan 2020 → present

## Projects

### FLEX-EPOS: FLEX-EPOS - Flex-ible in-stru-ment net-work for en-hanced geop-hy-sical ob-ser-va-tions and mul-ti-dis-ci-pli-na-ry re-search

Kukkonen, I., Koivisto, E., Junno, N., Vuorinen, T., Tiira, T., Oksanen, T. J. & Lindblom, P.  
01/01/2020 → 31/12/2024

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

Korja, A., Lindblom, P., Tiira, T., Komminaho, K. & Kortström, J.  
01/01/2015 → 31/01/2018

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

Tiira, T., Korja, A., Komminaho, K., Vuorinen, T. & Kortström, J.

01/01/2010 → ...

**DoID: Development of Institute of Seismology University of Helsinki Data, Data products, Software and Services**

Luhta, T., Tiira, T., Vuorinen, T., Korja, A., Salmenperä, I. E., Kortström, J., Oinonen, K., Veikkolainen, T. & Uski, M.  
01/06/2017 → ...

**ESU 2015**

Tiira, T., Komminaho, K., Väkevä, S., Skrzynic, T. & Janik, T.  
01/05/2015 → ...

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

Korja, A., Tiira, T., Mäntyniemi, P., Uski, M., Valtonen, O., Kosonen, E., Laine, M., Mikkonen, N., Huotari-Halkosaari, T., Airo, M., Sutinen, R., Högdahl, K., Lund, B., Stephens, M. & Grigull, S.  
01/03/2013 → 31/05/2016

**HUKKA07**

Tiira, T., Korja, A., Komminaho, K., Grad, M., Janik, T., Kozlovskaya, E., Hegedus, E., Kovács, C. A., Brückl, E. & Silvennoinen, H.  
01/01/2007 → 30/11/2014

**Helsingin seisminen asemaverkko**

Luhta, T., Tiira, T., Vuorinen, T., Mäntyniemi, P., Seipäjärvä, P. J., Kortström, J., Keskinen, J., Lindblom, P., Juntunen, A. K. & Arhe, K.  
01/08/2019 → ...

**FIN-EPOS: Implementation of FIN-EPOS - a FINnish national initiative of the European Plate Observing System**

Korja, A., Kukkonen, I., Tiira, T., Vuorinen, T., Aalto, A., Veikkolainen, T. & Junno, N.  
01/01/2016 → 31/12/2020

**Intraplate earthquake swarms in south-eastern Finland**

Tiira, T., Uski, M. & Komminaho, K.  
01/12/2011 → ...

**KOKKY**

Tiira, T., Komminaho, K., Korja, A., Heinonen, A., Veikkolainen, T., Väkevä, S., Skrzynic, T. & Janik, T.  
01/05/2012 → ...

**Lithosphere-Asthenosphere boundary in Europe**

Tiira, T., Grad, M. & Komminaho, K.  
01/07/2007 → ...

**Moho depth map for European plate**

Tiira, T., Grad, M. & Komminaho, K.  
20/05/2005 → 20/12/2020

**Monitoring the monitoring**

Luhta, T., Oinonen, K., Vuorinen, T., Whipp, D., Veikkolainen, T., Kortström, J., Tiira, T., Oksanen, T. J., Voutilainen, A. I. & Hällsten, J. M. A.  
02/03/2020 → ...

**OBF: Pyhäjoki seismic network**

Korja, A., Tiira, T., Uski, M., Kortström, J., Valtonen, O. & Vuorinen, T.  
15/10/2011 → ...

### **SEISMIC RISK - Mitigation of induced seismic risk in urban environments**

Korja, A., Fülöp, L., Putkinen, N., Junno, N., Hillers, G., Mäntyniemi, P., Vuorinen, T., Veikkolainen, T., Bäcklund, P., Oinonen, K., Tuomisaari, J. M., Tiira, T., Rintamäki, A. E. & Voutilainen, A. I.  
21/08/2020 → 30/11/2023

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

Tiira, T., Korja, A., Heikkinen, P. & Komminaho, K.  
01/01/2005 → ...

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

Korja, A., Lindblom, P., Tiira, T., Kortström, J., Kozlovskaya, E. & Mäntyniemi, P.  
01/01/2015 → 31/12/2017

### **Vyborg Rapakivi Batholith Seismicity**

Luhta, T., Tiira, T., Uski, M., Oinonen, K., Vuorinen, T., Seipäjärvi, P. J., Komminaho, K., Whipp, D. & Veikkolainen, T.  
01/06/2019 → ...

## **Publications**

### **The Finnish National Seismic Network: Toward Fully Automated Analysis of Low-Magnitude Seismic Events**

Veikkolainen, T., Kortström, J., Vuorinen, T., Salmenperä, I. E., Luhta, T., Mäntyniemi, P., Hillers, G. & Tiira, T., 29 Apr 2021, In: *Seismological Research Letters*. 92, 3, p. 1581-1591

### **Helsingin seisminen asemaverkko ja seismisyys 2020**

Veikkolainen, T., Oinonen, K., Vuorinen, T., Kortström, J., Mäntyniemi, P., Lindblom, P., Uski, M. & Tiira, T., 2021, Institute of Seismology, University of Helsinki. 30 p. (Report; no. T-103)

### **Lithosphere 2021: Eleventh symposium on structure, composition and evolution of the lithosphere**

Kukkonen, I. (ed.), Veikkolainen, T. (ed.), Heinonen, S. (ed.), Karell, F. (ed.), Kozlovskaya, E. (ed.), Luttinen, A. (ed.), Nikkilä, K. (ed.), Nykänen, V. (ed.), Poutanen, M. (ed.), Skyttä, P. (ed.), Tanskanen, E. (ed.) & Tiira, T. (ed.), 2021, Institute of Seismology, University of Helsinki. 179 p. (Report S; vol. 71)

### **A benchmark case study for seismic event relative location**

Gibbons, S. J., Kvaerna, T., Tiira, T. & Kozlovskaya, E., Nov 2020, In: *Geophysical Journal International*. 223, 2, p. 1313–1326 14 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.

### **Helsingin seisminen asemaverkko ja seismisyys 2019**

Luhta, T., Mäntyniemi, P., Vuorinen, T., Lindblom, P., Seipäjärvi, P. J., Oinonen, K., Kortström, J. & Tiira, T., 10 Mar 2020, Institute of Seismology, University of Helsinki. 21 p. (Report; no. T-101)

### **The 2018 Geothermal Reservoir Stimulation in Espoo/Helsinki, Southern Finland: Seismic Network Anatomy and Data Features**

Hillers, G., Vuorinen, T. A. T., Uski, M., Kortström, J., Mäntyniemi, P., Tiira, T., Malin, P. E. & Saarno, T., Mar 2020, In: *Seismological Research Letters*. 91, 2, p. 770-786 17 p.

### **OBF-VERKON TOIMINTA JA SEISMISET HAVAINNOT VUONNA 2019**

Vuorinen, T. A. T., Voutilainen, A. I., Kortström, J. T., Uski, M. R. & Tiira, T., 2020, Helsinki: Institute of Seismology, University of Helsinki. 16 p. (Report; no. T-100)

### **Seismisyys Espoon Otaniemen syväreikähankkeen viimeistelyvaiheessa**

Veikkolainen, T., Uski, M., Voutilainen, A. I., Vuorinen, T., Oinonen, K., Kortström, J., Luhta, T., Mäntyniemi, P. & Tiira, T., 2020, Institute of Seismology, University of Helsinki. 33 p. (Report; no. T-102)

### **OBF-VERKON TOIMINTA JA SEISMISET HAVAINNOT VUONNA 2018**

Vuorinen, T. A. T., Seipäjärvi, P. J., Kortström, J. T., Uski, M. R. & Tiira, T., 2019, Helsinki: Institute of Seismology, University of Helsinki. 14 p. (Report; no. T-99)

### **Lithospheric structure along wide-angle seismic profile GEORIFT 2013 in Pripjat–Dnieper–Donets Basin (Belarus and Ukraine)**

Starostenko, V., Janik, T., Yegorova, T., Czuba, W., Środa, P., Lysynchuk, D., Aizberg, R., Garetsky, R., Karataev, G., Gribik, Y., Farfaliak, L., Kolomiyets, K., Omelchenko, V., Komminaho, K., Tiira, T., Gryn, D., Guterch, A., Legostaeva, O., Thybo, H. & Tolkunov, A., Mar 2018, In: *Geophysical Journal International*. 212, 3, p. 1932-1962 31 p.

### **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.

### **OBF-VERKON TOIMINTA JA SEISMISET HAVAINNOT VUONNA 2017**

Vuorinen, T. A. T., Kaisko, O. S., Kortström, J. T., Uski, M. R. & Tiira, T., 2018, Helsinki: Institute of Seismology, University of Helsinki. 14 p. (Report; no. T-98)

### **Refraction seismic studies along the Kokkola-Kymi transect, Central Fennoscandia**

Väkevä, L. S. O., Tiira, T., Janik, T., Veikkolainen, T. H. K., Skrzynik, T., Heinonen, A. P., Komminaho, K. J. & Korja, A., 2018, *Lithosphere 2018. Tenth symposium on structure, composition and evolution of the lithosphere. Programme and extended abstracts..* Oulu: Institute of Seismology, University of Helsinki, Vol. 10. p. 127-130

### **Updated Fennoscandian GMPE**

Vuorinen, T. A. T., Tiira, T., Uski, M. R. & Lund, B., 2018, Helsinki: Institute of Seismology, University of Helsinki. 73 p. (Report; no. T-97)

### **Heat flow, seismic cutoff depth and thermal modeling of the Fennoscandian Shield**

Veikkolainen, T., Kukkonen, I. T. & Tiira, T., 1 Dec 2017, In: *Geophysical Journal International*. 211, 3, p. 1414-1427 14 p.

### **Crustal and Upper Mantle Velocity Model along the DOBRE-4 Profile from North Dobruja to the Central Region of the Ukrainian Shield: 1. Seismic Data**

Starostenko, V. I., Janik, T., Gintov, O. B., Lysynchuk, D. V., Sroda, P., Czuba, W., Kolomiyets, E. V., Aleksandrowski, P., Omelchenko, V. D., Komminaho, K., Guterch, A., Tiira, T., Gryn, D. N., Legostaeva, O. V., Thybo, G. & Tolkunov, A. V., Mar 2017, In: *Izvestiya, Russian Academy of Sciences. Physics of the Solid Earth*. 53, 2, p. 193-204 12 p.

### **Upper mantle structure across the Trans-European Suture Zone imaged by S-receiver functions**

Knapmeyer-Endrun, B., Krueger, F., Geissler, W. H., PASSEQ Working Grp, Komminaho, K. J. & Tiira, T., 15 Jan 2017, In: *Earth and Planetary Science Letters*. 458, p. 429-441 13 p.

### **Automatic Classification of Seismic P and S Wave Signals Using Multiple Parameters, Frequency Ranges and Artificial Neural Network**

Tiira, T., 2017. 1 p.

### **Automatic classification and onset estimation of seismic P and S wave signals recorded at local seismic network using artificial neural networks**

Tiira, T., 2017. 1 p.

### **Crustal and Upper Mantle Velocity Model along the DOBRE-4 Profile from North Dobruja to the Central Region of the Ukrainian Shield: 2. Geotectonic Interpretation**

Starostenko, V. I., Janik, T., Gintov, O. B., Lysynchuk, D. V., Środa, P., Czuba, W., Kolomiyets, E. V., Aleksandrowski, P., Omelchenko, V. D., Komminaho, K., Guterch, A., Tiira, T., Gryn, D. N., Legostaeva, O. V., Thybo, G. & Tolkunov, A. V., 2017, In: *Izvestiya, Russian Academy of Sciences. Physics of the Solid Earth*. 53, 2, p. 205-213 9 p.

**Lithospheric studies along seismic profile KOKKY, between Gulf of Bothnia and Gulf of Finland, Baltic Shield**

Tiira, T., Skrzynik, T., Janik, T., Komminaho, K. J., Väkevää, L. S. O. & Korja, A., 2017. 1 p.

**OBF-VERKON TOIMINTA JA SEISMISET HAVAINNOT VUONNA 2016**

Kaisko, O. S., Vuorinen, T. A. T., Kortström, J. T., Uski, M. R. & Tiira, T., 2017, Helsinki: Institute of Seismology, University of Helsinki. 30 p. (Report; no. T-96)

**Seismic cutoff depth and geotherms of the Fennoscandian Shield**

Veikkolainen, T. H. K., Kukkonen, I. T. & Tiira, T., 2017, *Geofysiikan päivät 18.-19.5.2017*. Veikkolainen, T., Tuomi, L., Korja, T., Suomi, I., Nordman, M., Bilker-Koivula, M. & Väkevää, S. (eds.). Helsinki: Geofysiikan seura, p. 110-113 4 p. (Geofysiikan Päivät).

**The GEORIFT 2013 wide-angle seismic profile, along Pripyat-Dnieper-Donets Basin**

Starostenko, V. I., Janik, T., Yegorova, T., Czuba, W., Środa, P., Lysynchuk, D. V., Aizberg, R., Garetsky, R., Karataev, G., Gribik, Y., Farfuliak, L., Kolomiyets, K., Omelchenko, V. D., Gryn, D. N., Guterch, A., Komminaho, K. J., Legostaeva, O. V., Thybo, H., Tiira, T. & Tolkunov, A. V., 2017. 1 p.

**Local Seismic Events in the Area of Poland Based on Data from the PASSEQ 2006-2008 Experiment**

PASSEQ Working Group & Komminaho, K. J., Dec 2016, In: *Acta Geophysica*. 64, 6, p. 2092-2113 22 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.

**Automatic classification of seismic events within a regional seismograph network**

Kortström, J., Uski, M. & Tiira, T., Feb 2016, In: *Computers & Geosciences*. 87, p. 22-30 9 p.

**Phase velocities of Rayleigh and Love waves in central and northern Europe from automated, broad-band, interstation measurements**

Soomro, R. A., Weidle, C., Cristiano, L., Lebedev, S., Meier, T., PASSEQ Working Group, Komminaho, K. J. & Tiira, T., Jan 2016, In: *Geophysical Journal International*. 204, 1, p. 517-534 18 p.

**Applying seismic cutoff depth in thermal modelling of the Fennoscandian Shield**

Veikkolainen, T. H. K., Kukkonen, I. T. & Tiira, T., 2016, *Lithosphere 2016 : Ninth Symposium on the Structure, Composition and Evolution of the Lithosphere in Fennoscandia Programme and Extended Abstracts*. Kukkonen ... [et al.], I. (ed.). Helsinki: Institute of Seismology, University of Helsinki, p. 149-152 4 p. (Report. S; no. 65).

**Automatic data processing and analysis system for monitoring region around a planned nuclear power plant**

Kortström, J. T., Tiira, T. & Kaisko, O. S., 2016, In: *Advances in Geosciences*. 41, p. 73-81 9 p.

**Lithosphere 2016 - Ninth Symposium on the Structure, Composition and Evolution of the Lithosphere in Finland: Programme and Extended Abstracts**

Kukkonen, I. T. (ed.), Heinonen, S. (ed.), Oinonen, K. J. (ed.), Arhe, T. K. (ed.), Eklund, O. (ed.), Karell, F. (ed.), Kozlovskaya, E. (ed.), Luttinen, A. V. (ed.), Lahtinen, R. (ed.), Lunkka, J. (ed.), Nykänen, V. (ed.), Poutanen, M. (ed.), Tanskanen, E. (ed.) & Tiira, T. (ed.), 2016, Helsinki: Institute of Seismology, University of Helsinki. 156 p. (Report S; no. S-65)

**Evaluating Seismic Hazard for the Hanhikivi Nuclear Power Plant Site, Seismological Characteristics of the Source Areas, Attenuation of Seismic Signal, and Probabilistic Analysis of Seismic Hazard.**

Saari, J. (ed.), Lund, B., Malm, M. M., Mäntyniemi, P. B., Oinonen, K. J., Tiira, T., Uski, M. R. & Vuorinen, T. A. T., 1 Jun 2015, ÅF-Consult Ltd. 258 p.

**Upper mantle structure around the Trans-European Suture Zone obtained by teleseismic tomography**

Janutyte, I., Majdanski, M., Voss, P. H., Kozlovskaya, E., Tiira, T. E., Komminaho, K. J. & PASSEQ Working Group, 16 Jan 2015, In: *Solid Earth*. 6, 1, p. 73-91 19 p.

**Seismic model of the crust and upper mantle in the Scythian Platform: the DOBRE-5 profile across the north western Black Sea and the Crimean Peninsula**

Starostenko, V., Janik, T., Yegorova, T., Farfuliak, L., Czuba, W., Środa, P., Thybo, H., Artemieva, I., Sosson, M., Volfman, Y., Kolomiyets, K., Lysynchuk, D., Omelchenko, V., Gryn, D., Guterch, A., Komminaho, K., Legostaeva, O., Tiira, T. & Tolkunov, A., 2015, In: *Geophysical Journal International*. 201, 1, p. 406-428 23 p.

**The European Arctic: A Laboratory for Seismoacoustic Studies**

Gibbons, S. J., Asming, V., Eliasson, L., Fedorov, A., Fyen, J., Kero, J., Kozlovskaya, E., Kvaerna, T., Liszka, L., Nasholm, S. P., Raita, T., Roth, M., Tiira, T. & Vinogradov, Y., 2015, In: *Seismological Research Letters*. 86, 3, p. 917-928 12 p.

**Seismic lithosphere–asthenosphere boundary beneath the Baltic Shield**

Grad, M., Tiira, T., Olsson, S. & Komminaho, K., 20 Oct 2014, In: *Geologiska Förening i Stockholm Förhandlingar*. 136, 4, p. 581-598 18 p.

**Mantle lithosphere transition from the East European Craton to the Variscan Bohemian Massif imaged by shear-wave splitting**

Vecsey, L., Plomerová, J., Babuška, V., PASSEQ Working Group, Tiira, T. E. & Komminaho, K. J., 6 Aug 2014, In: *Solid Earth*. 5, 2, p. 779–792

**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.

**Local seismic events in area of Poland based on data from PASSEQ 2006-2008 experiment**

Polkowski, M., Plesiewicz, B., Wiszniowski, J., Wilde-Piórko, M., PASSEQ Working Group Team, Komminaho, K. & Tiira, T., 2014, In: *Geophysical Research Abstracts*. 16, EGU2014-8431.

**Moho depth across the Trans-European Suture Zone from P-and S-receiver functions**

Knapmeyer-Endrun, B., Kruger, F., Wilde-Piórko, M., Geissler, H., Plomerova, J., Grad, M., Babuska, J., Bruckl, E., Cyziene, J., Czuba, W., England, R., Gaczynski, E., Gazdova, R., Gregersen, S., Guterch, A., Hanka, W., Hegedus, E., Heuer, B., Jedlicka, B., Lazauskiene, J. & 20 others, Keller, G. R., Kind, R., Klinge, K., Kolinsky, P., Komminaho, K., Kozlovskaya, E., Larsen, T., Majdanski, M., Malek, J., Motuza, G., Novotny, O., Pietrasiak, R., Plenefisch, T., Ruzek, B., Sliupa, S., Sroda, P., Swieczak, M., Tiira, T., Voss, P. & Wiejacz, P., 2014, In: *Geophysical Journal International*. 197, 2, p. 1048-1075 28 p.

**SEISMIC STRUCTURE ALONG DOBRE-5 PROFILE, FROM THE NORTH DOBROGEA OROGEN ACROSS THE SW SHELF OF THE BLACK SEA AND CRIMEA PENINSULA, UKRAINE**

Starostenko, V., Janik, T., Yegorova, T., Farfuliak, L., Czuba, W., Środa, P., Sosson, M., Volfman, Y., Kolomiyets, K., Lysynchuk, D., Omelchenko, V., Gryn, D., Guterch, A., Komminaho, K., Legostaeva, O., Thybo, H., Tiira, T. & Tolkunov, A., 2014, *Unknown host publication*. P27

**THE GEORIFT 2013 WIDE-ANGLE SEISMIC PROFILE, PRELIMINARY RESULTS**

Janik, T., GEORIFT 2013 Working Group, Komminaho, K. & Tiira, T., 2014, *Unknown host publication*. P24

**Traces of the crustal units and the upper-mantle structure in the southwestern part of the East European Craton**

Janutyte, I., Kozlovskaya, E., Majdanski, M., Voss, P. H., Budraitis, M., PASSEQ Working Group, Komminaho, K. & Tiira, T., 2014, In: *Solid Earth*. 5, 2, p. 821-836 16 p.

**Upper Mantle Structure Around the Trans-European Suture Zone**

Janutyte, I., Majdanski, M., Voss, P. H., Kozlovskaya, E., PASSEQ Working Group Team, Komminaho, K. & Tiira, T., 2014, In: *Geophysical Research Abstracts*. 16, EGU2014-4463.

**Mesozoic(?) lithosphere-scale buckling of the East European Craton in southern Ukraine: DOBRE-4 deep seismic profile**  
Starostenko, V., Janik, T., Lysynchuk, D., Sroda, P., Czuba, W., Kolomiyets, K., Aleksandrowski, P., Gintov, O., Omelchenko, V., Komminaho, K., Guterch, A., Tiira, T., Gryn, D., Legostaeva, O., Thybo, H. & Tolkunov, A., Nov 2013, In: *Geophysical Journal International*. 195, 2, p. 740-766 27 p.

**Seismic velocity model of the crust and upper mantle along profile PANCAKE across the Carpathians between the Pannonian Basin and the East European Craton**

Starostenko, V., Janik, T., Kolomiyets, K., Czuba, W., Środa, P., Grad, M., Kovács, I., Stephenson, R., Lysynchuk, D., Thybo, H., Artemieva, I. M., Omelchenko, V., Gintov, O., Kutas, R., Gryn, D., Guterch, A., Hegedus, E., Komminaho, K., Legostaeva, O., Tiira, T. & 1 others, Tolkunov, A., 11 Jul 2013, In: *Tectonophysics*.

**Optimal configuration of the local Ostrobothnian seismic network OBF**

Valtonen, O., Uski, M., Tiira, T., Kortström, J. & Korja, A., 21 May 2013, *XXVI Geophysics Days*. Geofysiikan seura, p. 131-133 3 p. (Geofysiikan päivät).

**Seismic LAB beneath the Baltic Shield – or rigid Lithosphere?**

Grad, M., Tiira, T., Olsson, S. & Komminaho, K., 21 May 2013, *XXVI Geophysics Days*. Helsinki, p. 27-30 4 p.

**Structure of the mantle lithosphere around the TESZ - from the East European Craton to the Variscan Belt**

Vecsey, L., Plomerova, J., Babuska, V., PASSEQ Working Group, Komminaho, K. & Tiira, T., 12 Apr 2013, In: *Geophysical Research Abstracts*. 15, EGU2013-3133.

**SESA, SEISMIC SAFETY OF NUCLEAR POWER PLANTS – TARGETS FOR RESEARCH AND EDUCATION, SUBPROJECT 1, EARTHQUAKE HAZARD ASSESSMENT, PROGRESS REPORT 2012: Analysis of the waveforms collected in the SESA data bank, proposal for attenuation functions**

Tiira, T., Smedberg, I. & Heikkinen, P., Mar 2013, 12 p.

**Study of Local Seismic Events in Lithuania and Adjacent Areas Using Data from the PASSEQ Experiment**

Janutyte, I., Kozlovskaya, E., Motuza, G., PASSEQ Working Group, Tiira, T. & Komminaho, K., 3 Feb 2013, In: *Pure and applied geophysics : PAGEOPH*. 170, 5, p. 797-814 17 p.

**Tracing the influence of the Trans-European Suture Zone into the mantle transition zone**

Knapmeyer-Endrun, B., Krüger, F., Legendre, C. P., Geissler, W. H., Wilde-Piórko, M., Plomerová, J., Grad, M., Babůska, V., Brückl, E., Cyziene, J., Czuba, W., England, R., Gaczyński, E., Gazdova, R., Gregersen, S., Guterch, A., Hanka, W., Hegedus, E., Heuer, B., Jedlička, P. & 22 others, Lazauskiene, J., Keller, G. R., Kind, R., Klinge, K., Kolinsky, P., Komminaho, K., Kozlovskaya, E., Krüger, F., Larsen, T., Tiira, T., Majdański, M., Malek, J., Motuza, G., Novotný, O., Pietrasiak, R., Plenefisch, T., Ružek, B., Sliupa, S., Środa, P., Świeczak, M., Voss, P. & Wiejacz, P., 1 Feb 2013, In: *Earth and Planetary Science Letters*. 363, p. 73-87 15 p.

**Imaging the lithosphere-asthenosphere boundary across the transition from Phanerozoic Europe to the East-European Craton with S-receiver functions**

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**Three-dimensional seismic modelling of crustal structure in the TESZ region based on POLONAISE'97 data**

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Grad, M., Janik, T., Yliniemi, J., Guterch, A., Luosto, U., Tiira, T., Komminaho, K., Sroda, P., Höing, K., Makris, J. & Lund, C-E., 1999, In: Tectonophysics. 314, p. 145-160 16 p.

**Detecting teleseismic events using artificial neural networks**

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**Seismic velocity structure across the Fennoscandia-Sarmatia suture beneath the EUROBRIDGE profile through Lithuania and Belarus**

EUROBRIDGE Seismic Working Group & Komminaho, K., 1999, In: Tectonophysics. 314, 1-3, p. 193-217 15 p.

**Slowness vector correction of teleseismic events with artificial neural networks**

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**Discrimination of nuclear explosions and earthquakes from teleseismic distances with a local network of short period stations using neural network**

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#### **Seismic event detector based on artificial neural networks**

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Tiira, T., Tuppurainen, A. & Tarvainen, M., 1995, In: *Geophysica*. 31, p. 71-84 14 p.

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#### **Automatic location of teleseismic events with local area network**

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#### **Polarization detector**

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#### **Polarization detector: A new approach without eigenproblem solution**

Tiira, T. & Tarvainen, M., 1992, In: *Geophysica*. 28, p. 29-40 12 p.

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#### **Seismisen kartan piirto-ohjelma**

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## **Prizes**

#### **The best GFF articles for 2013 and 2014**

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## **Press/Media**

#### **Earthquake strikes in Ostrobothnia**

T. Tiira  
05/04/2021



2 items of Media coverage

#### **Euroopan syvin maankuori Jyväskylän seudulla**

Toni Veikkolainen, Timo Tiira, Sakari Väkevä, Kari Komminaho, Aku Heinonen, Annakaisa Korja, Tomasz Janik & Tymon Skrzynic

26/03/2020

1 item of Media coverage

#### **Haastattelu maanjäristysten ennustettavuudesta**

Timo Tiira

15/05/2011

1 Media contribution

#### **Mild tremor jolts South Ostrobothnia**

T. Tiira

05/04/2021

1 item of Media coverage

#### **Nuclear Bomb or Earthquake? Explosions Reveal the Differences**

T. Tiira

09/09/2019

1 item of Media coverage

#### **The deepest crust in Europe found in the Jyväskylä region**

T. Tiira

26/03/2020

1 item of Media coverage

#### **Tutkimus: Euroopan syvin maankuori sijaitsee Jyväskylän seudulla**

Toni Veikkolainen, Timo Tiira, Sakari Väkevä, Kari Komminaho, Aku Heinonen, Annakaisa Korja, Tomasz Janik & Tymon Skrzynic

26/03/2020

1 item of Media coverage

## **Activities**

#### **Journal of Seismology (Journal)**

Timo Tiira (Member of editorial board)

6 Mar 2020 → ...

#### **Journal of Seismology (Journal)**

Timo Tiira (Reviewer)

2020

#### **Advances in Geophysics (Journal)**

Timo Tiira (Reviewer)

2019

#### **Computers & Geosciences (Journal)**

Timo Tiira (Reviewer)

2019

#### **Journal of Seismology (Journal)**

Timo Tiira (Reviewer)

2019

**Pure and applied geophysics : PAGEOPH (Journal)**

Timo Tiira (Reviewer)  
2019

**First AlpArray Science Meeting**

Timo Tiira (Attendee)  
29 Aug 2018 → 30 Aug 2018

**Acta Geophysica (Journal)**

Timo Tiira (Reviewer)  
2018 → ...

**Applied Geophysics (Journal)**

Timo Tiira (Reviewer)  
2018 → ...

**EGU General Assembly 2018**

Timo Tiira (Poster Presentation)  
2018 → ...

**ESC General Assembly Malta**

Timo Tiira (Poster Presentation)  
2018 → ...

**Journal of Seismology (Journal)**

Timo Tiira (Reviewer)  
2018 → ...

**International Journal of Earth Sciences (Journal)**

Timo Tiira (Reviewer)  
28 Sep 2017 → ...

**IAG-IASPEI 2017**

Timo Tiira (Attendee)  
30 Jul 2017 → 4 Aug 2017

**e-COST TIDES Council meeting and training school**

Timo Tiira (Attendee)  
9 Jul 2017 → 14 Jul 2017

**CTBTO: Science and Technology 2017**

Timo Tiira (Attendee)  
26 Jun 2017 → 30 Jun 2017

**EGU 2017 General Assembly**

Timo Tiira (Attendee)  
24 Apr 2017 → 28 Apr 2017

**Tymon Skrzynic**

Timo Tiira (Host) & Kari Juhani Komminaho (Host)  
27 Mar 2017 → 21 Apr 2017

**Journal of Seismology (Journal)**

Timo Tiira (Reviewer)

2017 → ...

**Computers & Geosciences (Journal)**

Timo Tiira (Reviewer)

22 Aug 2016 → 12 Sep 2016

**The Institute of Geophysics (IGP) of the National Academy of Sciences of Ukraine**

Timo Tiira (Visiting researcher)

26 Oct 2015 → 29 Oct 2015

**IUGG General Assembly**

Timo Tiira (Attendee)

25 Jun 2015 → 1 Jul 2015

**European Geosciences Union General Assembly 2015**

Timo Tiira (Attendee)

12 Apr 2015 → 17 Apr 2015

**ILP / Finnish National Committee (External organisation)**

Timo Tiira (Member)

2015 → ...

**e-COST TIDES (External organisation)**

Timo Tiira (Member)

2015 → 2018

**pro gradu/ Tommi Vuorinen**

Timo Tiira (Supervisor)

2015

**Pure and applied geophysics : PAGEOPH (Journal)**

Timo Tiira (Reviewer)

2014 → 2015

**Monika Wilde-Piorko**

Timo Tiira (Host)

17 Nov 2013 → 24 Nov 2013

**GeoPlanet: Earth and Planetary Sciences (Journal)**

Timo Tiira (Reviewer)

18 Oct 2013 → 20 Dec 2013

**European Geosciences Union General Assembly 2013**

Timo Tiira (Poster Presentation)

7 Apr 2013 → 12 Apr 2013

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)

5 Feb 2013 → Mar 2013

**Lithosphere 2012 symposium**

Timo Tiira (Attendee)

6 Nov 2012 → 8 Nov 2012

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)

27 Aug 2012 → 27 Sep 2012

**European Geosciences Union General Assembly 2012**

Timo Tiira (Poster Presentation)

22 Apr 2012 → 27 Apr 2012

**Varsovan Yliopisto, Geofysiikan laitos**

Timo Tiira (Visiting researcher)

17 Mar 2012 → 22 Mar 2012

**4th PASSEQ Workshop**

Timo Tiira (Attendee)

14 Mar 2012 → 17 Mar 2012

**MIDCRUST Workshop**

Timo Tiira (Attendee)

13 Feb 2012 → 14 Feb 2012

**Studia Geophysica et Geodaetica (Journal)**

Timo Tiira (Reviewer)

15 Nov 2011 → 5 Dec 2011

**Prof Marek Grad**

Timo Tiira (Host)

29 Aug 2011 → 28 Sep 2011

**University of Warsaw, Institute of Geophysics and Polish Academy of Sciences, Institute of Geophysics**

Timo Tiira (Visiting researcher)

13 Feb 2011 → 26 Feb 2011

**Workshop: Kallioperän 3D-hanke**

Timo Tiira (Attendee)

8 Feb 2011

**Lithosphere 2010**

Timo Tiira (Poster Presentation)

27 Oct 2010 → 28 Oct 2010

**Marek Grad**

Timo Tiira (Host)

20 Sep 2010 → 16 Oct 2010

**ESC 32nd General Assembly**

Timo Tiira (Poster Presentation)

5 Sep 2010 → 10 Sep 2010

**University of Warsaw**

Timo Tiira (Visiting researcher)

24 Jan 2010 → 6 Feb 2010

**Tectonophysics (Journal)**

Timo Tiira (Reviewer)  
Dec 2009

**DOBRE4 working group (External organisation)**

Timo Tiira (Member)  
1 Aug 2009 → ...

**Acta Geophysica (Journal)**

Timo Tiira (Reviewer)  
Aug 2009

**European geophysical Union, General Assembly 2009**

Timo Tiira (Poster Presentation)  
19 Apr 2009 → 25 Apr 2009

**Institute of Geophysics, Academy of Sciences of Ukraine**

Timo Tiira (Visiting researcher)  
10 Oct 2008 → 23 Oct 2008

**PANCAKE working group (External organisation)**

Timo Tiira (Member)  
1 Oct 2008 → ...

**31st General Assembly, European Seismological Commission**

Timo Tiira (Chair)  
7 Sep 2008 → 12 Sep 2008

**SEISMIX 2008**

Timo Tiira (Poster Presentation)  
8 Jun 2008 → 13 Jun 2008

**CELEBRATION 2000 Workshop, 22.-26.5.2008, Zakopane, Poland**

Timo Tiira (Participant)  
22 May 2008 → 26 May 2008

**European Geophysical Union, General Assembly 2008**

Timo Tiira (Poster Presentation)  
13 Apr 2008 → 18 Apr 2008

**Bulletin of the Seismological Society of America (Journal)**

Timo Tiira (Reviewer)  
1 Jan 2008 → 31 Dec 2008

**Polish Polar Research (Journal)**

Timo Tiira (Reviewer)  
1 Jan 2008 → 31 Dec 2008

**Marek Grad**

Timo Tiira (Host)  
16 Sep 2007 → 12 Oct 2007

**Attila Kovacs**

Timo Tiira (Host)  
18 Aug 2007 → 25 Aug 2007

**Endre Hegedus**

Timo Tiira (Host)

18 Aug 2007 → 25 Aug 2007

**Istvan Torok**

Timo Tiira (Host)

18 Aug 2007 → 25 Aug 2007

**Marek Grad**

Timo Tiira (Host)

24 Sep 2006 → 4 Nov 2006

**First European Conference on Earthquake Engineering and Seismology (1st ECEES)**

Timo Tiira (Chair)

3 Sep 2006 → 8 Sep 2006

**Geological Survey of Lithuania**

Timo Tiira (Visiting researcher)

13 Jun 2006 → 22 Jun 2006

**European Geophysical Union General Assembly 2006**

Timo Tiira (Poster Presentation)

2 Apr 2006

**Monika Wilde-Piorko**

Timo Tiira (Host)

15 Mar 2006 → 29 Mar 2006

**Polish Academy of Sciences, Institute of Geophysics**

Timo Tiira (Visiting researcher)

16 Feb 2006 → 18 Feb 2006

**European Seismological Commission, Sub-Commission D (External organisation)**

Timo Tiira (Secretary)

1 Jan 2006 → 31 Dec 2006

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)

1 Jan 2006 → 31 Dec 2006

**PASSEQ working group (External organisation)**

Timo Tiira (Member)

1 Jan 2006 → ...

**Disaster Early Warning System Feasibility Study Seminar**

Timo Tiira (Attendee)

9 Dec 2005

**University of Warsaw**

Timo Tiira (Visiting researcher)

20 Nov 2005 → 26 Nov 2005

**Marek Grad**

Timo Tiira (Host)  
18 Sep 2005 → 28 Oct 2005

**Vienna University of Technology**

Timo Tiira (Visiting researcher)  
5 Sep 2005 → 15 Sep 2005

**Workshop: Geodynamics of Central Europe**

Timo Tiira (Attendee)  
30 May 2005 → 3 Jun 2005

**ALPASS working group (External organisation)**

Timo Tiira (Member)  
1 May 2005 → ...

**European Geophysical Union, General Assembly 2005**

Timo Tiira (Poster Presentation)  
24 Apr 2005 → 30 Apr 2005

**EUROARRAY meeting**

Timo Tiira (Attendee)  
14 Mar 2005 → 17 Mar 2005

**European Seismological Commission, Sub-Commission D (External organisation)**

Timo Tiira (Secretary)  
1 Jan 2005 → 31 Dec 2005

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)  
1 Jan 2005 → 31 Dec 2005

**European Seismological Commission, Sub-Commission D (External organisation)**

Timo Tiira (Secretary)  
1 Jan 2004 → 31 Dec 2004

**SUDETES 2003 working group (External organisation)**

Timo Tiira (Member)  
1 Jun 2003 → ...

**ALP2002 working group (External organisation)**

Timo Tiira (Member)  
1 Jun 2002 → 31 Dec 2009

**FIRE working group (External organisation)**

Timo Tiira (Member)  
1 Jan 2001 → ...

**Marek Grad**

Timo Tiira (Host)  
6 Nov 2000 → 17 Nov 2000

**Thomasz Janik**

Timo Tiira (Host)  
6 Nov 2000 → 17 Nov 2000

**CELEBRATION 2000 Working group (External organisation)**

Timo Tiira (Member)  
1 Jun 2000 → ...

**Jiri Halik**

Timo Tiira (Host)  
6 Dec 1994 → 12 Dec 1994

**Annali di Geofisica (Journal)**

Timo Tiira (Reviewer)  
1994

**Activities**

**Journal of Seismology (Journal)**

Timo Tiira (Member of editorial board)  
6 Mar 2020 → ...

**Journal of Seismology (Journal)**

Timo Tiira (Reviewer)  
2020

**Advances in Geophysics (Journal)**

Timo Tiira (Reviewer)  
2019

**Computers & Geosciences (Journal)**

Timo Tiira (Reviewer)  
2019

**Journal of Seismology (Journal)**

Timo Tiira (Reviewer)  
2019

**Pure and applied geophysics : PAGEOPH (Journal)**

Timo Tiira (Reviewer)  
2019

**Acta Geophysica (Journal)**

Timo Tiira (Reviewer)  
2018 → ...

**Applied Geophysics (Journal)**

Timo Tiira (Reviewer)  
2018 → ...

**Journal of Seismology (Journal)**

Timo Tiira (Reviewer)  
2018 → ...

**International Journal of Earth Sciences (Journal)**

Timo Tiira (Reviewer)  
28 Sep 2017 → ...



**Tymon Skrzynic**

Timo Tiira (Host) & Kari Juhani Komminaho (Host)  
27 Mar 2017 → 21 Apr 2017

**Journal of Seismology (Journal)**

Timo Tiira (Reviewer)  
2017 → ...

**Computers & Geosciences (Journal)**

Timo Tiira (Reviewer)  
22 Aug 2016 → 12 Sep 2016

**The Institute of Geophysics (IGP) of the National Academy of Sciences of Ukraine**

Timo Tiira (Visiting researcher)  
26 Oct 2015 → 29 Oct 2015

**ILP / Finnish National Committee (External organisation)**

Timo Tiira (Member)  
2015 → ...

**e-COST TIDES (External organisation)**

Timo Tiira (Member)  
2015 → 2018

**pro gradu/ Tommi Vuorinen**

Timo Tiira (Supervisor)  
2015

**Pure and applied geophysics : PAGEOPH (Journal)**

Timo Tiira (Reviewer)  
2014 → 2015

**Monika Wilde-Piorko**

Timo Tiira (Host)  
17 Nov 2013 → 24 Nov 2013

**GeoPlanet: Earth and Planetary Sciences (Journal)**

Timo Tiira (Reviewer)  
18 Oct 2013 → 20 Dec 2013

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)  
5 Feb 2013 → Mar 2013

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)  
27 Aug 2012 → 27 Sep 2012

**Varsovan Yliopisto, Geofysiikan laitos**

Timo Tiira (Visiting researcher)  
17 Mar 2012 → 22 Mar 2012

**Studia Geophysica et Geodaetica (Journal)**

Timo Tiira (Reviewer)  
15 Nov 2011 → 5 Dec 2011

**Prof Marek Grad**

Timo Tiira (Host)  
29 Aug 2011 → 28 Sep 2011

**University of Warsaw, Institute of Geophysics and Polish Academy of Sciences, Institute of Geophysics**

Timo Tiira (Visiting researcher)  
13 Feb 2011 → 26 Feb 2011

**Marek Grad**

Timo Tiira (Host)  
20 Sep 2010 → 16 Oct 2010

**University of Warsaw**

Timo Tiira (Visiting researcher)  
24 Jan 2010 → 6 Feb 2010

**Tectonophysics (Journal)**

Timo Tiira (Reviewer)  
Dec 2009

**DOBRE4 working group (External organisation)**

Timo Tiira (Member)  
1 Aug 2009 → ...

**Acta Geophysica (Journal)**

Timo Tiira (Reviewer)  
Aug 2009

**Institute of Geophysics, Academy of Sciences of Ukraine**

Timo Tiira (Visiting researcher)  
10 Oct 2008 → 23 Oct 2008

**PANCAKE working group (External organisation)**

Timo Tiira (Member)  
1 Oct 2008 → ...

**CELEBRATION 2000 Workshop, 22.-26.5.2008, Zakopane, Poland**

Timo Tiira (Participant)  
22 May 2008 → 26 May 2008

**Bulletin of the Seismological Society of America (Journal)**

Timo Tiira (Reviewer)  
1 Jan 2008 → 31 Dec 2008

**Polish Polar Research (Journal)**

Timo Tiira (Reviewer)  
1 Jan 2008 → 31 Dec 2008

**Marek Grad**

Timo Tiira (Host)  
16 Sep 2007 → 12 Oct 2007

**Attila Kovacs**

Timo Tiira (Host)  
18 Aug 2007 → 25 Aug 2007

**Endre Hegedus**

Timo Tiira (Host)  
18 Aug 2007 → 25 Aug 2007

**Istvan Torok**

Timo Tiira (Host)  
18 Aug 2007 → 25 Aug 2007

**Marek Grad**

Timo Tiira (Host)  
24 Sep 2006 → 4 Nov 2006

**Geological Survey of Lithuania**

Timo Tiira (Visiting researcher)  
13 Jun 2006 → 22 Jun 2006

**Monika Wilde-Piorko**

Timo Tiira (Host)  
15 Mar 2006 → 29 Mar 2006

**Polish Academy of Sciences, Institute of Geophysics**

Timo Tiira (Visiting researcher)  
16 Feb 2006 → 18 Feb 2006

**European Seismological Commission, Sub-Commission D (External organisation)**

Timo Tiira (Secretary)  
1 Jan 2006 → 31 Dec 2006

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)  
1 Jan 2006 → 31 Dec 2006

**PASSEQ working group (External organisation)**

Timo Tiira (Member)  
1 Jan 2006 → ...

**University of Warsaw**

Timo Tiira (Visiting researcher)  
20 Nov 2005 → 26 Nov 2005

**Marek Grad**

Timo Tiira (Host)  
18 Sep 2005 → 28 Oct 2005

**Vienna University of Technology**

Timo Tiira (Visiting researcher)  
5 Sep 2005 → 15 Sep 2005

**ALPASS working group (External organisation)**

Timo Tiira (Member)

1 May 2005 → ...

**European Seismological Commission, Sub-Commission D (External organisation)**

Timo Tiira (Secretary)

1 Jan 2005 → 31 Dec 2005

**Geophysical Journal International (Journal)**

Timo Tiira (Reviewer)

1 Jan 2005 → 31 Dec 2005

**European Seismological Commission, Sub-Commission D (External organisation)**

Timo Tiira (Secretary)

1 Jan 2004 → 31 Dec 2004

**SUDETES 2003 working group (External organisation)**

Timo Tiira (Member)

1 Jun 2003 → ...

**ALP2002 working group (External organisation)**

Timo Tiira (Member)

1 Jun 2002 → 31 Dec 2009

**FIRE working group (External organisation)**

Timo Tiira (Member)

1 Jan 2001 → ...

**Marek Grad**

Timo Tiira (Host)

6 Nov 2000 → 17 Nov 2000

**Thomasz Janik**

Timo Tiira (Host)

6 Nov 2000 → 17 Nov 2000

**CELEBRATION 2000 Working group (External organisation)**

Timo Tiira (Member)

1 Jun 2000 → ...

**Jiri Halik**

Timo Tiira (Host)

6 Dec 1994 → 12 Dec 1994

**Annali di Geofisica (Journal)**

Timo Tiira (Reviewer)

1994