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## Kvalifikationer

geofysik, FD  
fysik, FK, Avdelningen för fysik

### Forskningsledare (Principal Investigator)

Tidsperiod : 01.12.2009 - \* i Avdelningen för geovetenskaper och geografi

## Anställning

### forskningsdirektör

Avdelningen för geovetenskaper och geografi  
Helsingfors universitet  
Finland  
1 jan 2018 → present

### Seismologiska institutet

Helsingfors universitet  
Finland  
1 jan 2010 → present

### Handledare för doktorandprogram

Doctoral Programme in Geosciences  
Helsingfors universitet  
1 jan 2020 → present

## !!Projects

### 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

**FIN-EPOS-Seismo: FIRI-omarahoitusosuus (Korja)**

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

**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., Seipäjärvi, P. J., Kortström, J., Keskinen, J., Lindblom, P., Juntunen, A. K. & Arhe, K.  
01/08/2019 → ...

**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 → ...

**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 → ...

**Structure and evolution of the Eurasian plate**

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

**FIN-EPOS-Seismo: Suomen seismisen asemaverkon laajennus- FIN-EPOS alahanke**

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 → ...

## Publikationer

### **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., 17 mar 2020, I : Pure and applied geophysics : PAGEOPH. 21 s.

### **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, 21 s. (Report; nr. 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, I : Seismological Research Letters. 91, 2, s. 770-786 17 s.

### **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 s. (Report; nr. 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., Farfuliak, L., Kolomiyets, K., Omelchenko, V., Komminaho, K., Tiira, T., Gryn, D., Guterch, A., Legostaeva, O., Thybo, H. & Tolkunov, A., mar 2018, I : Geophysical Journal International. 212, 3, s. 1932-1962 31 s.

### **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. (red.). 1. red. Chichester, U.K.: John Wiley & Sons Ltd. , s. 205-208 4 s.

### **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 s. (Report; nr. T-98)

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

Väkevä, L. S. O., Tiira, T., Janik, T., Veikkolainen, T. H. K., Skrzynic, 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. s. 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 s. (Report; nr. T-97)

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

Veikkolainen, T., Kukkonen, I. T. & Tiira, T., 1 dec 2017, I : Geophysical Journal International. 211, 3, s. 1414-1427 14 s.

### **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, I : Izvestiya, Russian Academy of Sciences. Physics of the Solid Earth. 53, 2, s. 193-204 12 s.

### **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, I : Earth and Planetary Science Letters. 458, s. 429-441 13 s.

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

Tiira, T., 2017. 1 s.

**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 s.

**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, I : Izvestiya, Russian Academy of Sciences. Physics of the Solid Earth. 53, 2, s. 205–213 9 s.

**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 s.

**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 s. (Report; nr. 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. (red.). Helsinki: Geofysiikan seura, s. 110-113 4 s. (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 s.

**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, I : Acta Geophysica. 64, 6, s. 2092-2113 22 s.

**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, I : Journal of Seismology. 20, 2, s. 397-417 21 s.

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

Kortström, J., Uski, M. & Tiira, T., feb 2016, I : Computers & Geosciences. 87, s. 22-30 9 s.

**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, I : Geophysical Journal International. 204, 1, s. 517-534 18 s.

**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. (red.). Helsinki: Institute of Seismology, University of Helsinki, s. 149-152 4 s. (Report. S; nr. 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, I : Advances in Geosciences. 41, s. 73-81 9 s.

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

Kukkonen, I. T. (red.), Heinonen, S. (red.), Oinonen, K. J. (red.), Arhe, T. K. (red.), Eklund, O. (red.), Karell, F. (red.), Kozlovskaya, E. (red.), Luttinen, A. V. (red.), Lahtinen, R. (red.), Lunkka, J. (red.), Nykänen, V. (red.), Poutanen, M. (red.), Tanskanen, E. (red.) & Tiira, T. (red.), 2016, Helsinki: Institute of Seismology, University of Helsinki. 156 s. (Report S; nr. 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. (red.), 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 s.

**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, I : Solid Earth. 6, 1, s. 73-91 19 s.

**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, I : Geophysical Journal International. 201, 1, s. 406-428 23 s.

**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, I : Seismological Research Letters. 86, 3, s. 917-928 12 s.

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

Grad, M., Tiira, T., Olsson, S. & Komminaho, K., 20 okt 2014, I : Geologiska Förening i Stockholm Förhandlingar. 136, 4, s. 581-598 18 s.

**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, I : Solid Earth. 5, 2, s. 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, I : Pure and applied geophysics : PAGEOPH. 171, 7, s. 1129-1152 24 s.

**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, I : 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 andra, 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, I : Geophysical Journal International. 197, 2, s. 1048-1075 28 s.

**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, I : *Solid Earth*. 5, 2, s. 821-836 16 s.

#### **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, I : *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, I : *Geophysical Journal International*. 195, 2, s. 740-766 27 s.

#### **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 andra, Tolkunov, A., 11 jul 2013, I : *Tectonophysics*.

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

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

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

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

#### **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, I : *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 s.

#### **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, I : *Pure and applied geophysics* : PAGEOPH. 170, 5, s. 797-814 17 s.

#### **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., Babuska, 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 andra, Lazauskiene, J., Keller, G. R., Kind, R., Klinge, K., Kolinsky, P., Komminaho, K., Kozlovskaya, E., Krüger, F., Larsen, T., Tiira, T., Majdanski, 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, I : *Earth and Planetary Science Letters*. 363, s. 73-87 15 s.

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

Knapmeyer-Endrun, B., Krüger, F., PASSEQ Working Group Team, Komminaho, K. & Tiira, T., 2013, I : *Geophysical Research Abstracts*. 15, EGU2013-6972.

**Mesozoic(?) lithosphere-scale buckling of the East European Craton in southern Ukraine: DOBRE-4 deep seismic profile**  
Starostenko, V., Janik, T., Lysynchuk, D., Środa, 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., 2013, I : Geophysical Research Abstracts. 15, s. EGU2013-4348

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

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

**Preliminary results along deep seismic sounding profile DOBRE-5 from the North Dobrogea Orogen across the SW shelf of the Black Sea and Crimea Peninsula**

Starostenko, V., Janik, T., Farfuliak, L., Czuba, W., Środa, P., Volfman, Y., Kolomiyets, K., Lysynchuk, D., Omelchenko, V., Gintov, O., Gryn, D., Guterch, A., Komminaho, K., Legostaeva, O., Thybo, H., Tiira, T. & Tolkunov, A., 2013, I : Geophysical Research Abstracts. s. EGU2013-4871

**Seismic LAB or LID? The Baltic Shield case**

Grad, M., Tiira, T., Olsson, S. & Komminaho, K., 2013, I : Solid Earth Discussions. 5, s. 699-736 37 s.

**Seismic LAB or LID? The Baltic Shield Case**

Grad, M., Tiira, T., Olsson, S. & Komminaho, K., 2013, I : Geophysical Research Abstracts. 15, EGU2013-2187.

**Seismic safety of nuclear power plants: targets for research and education (SESA).**

Fulöp, L., Smedberg, I., Tiira, T., Mäntyniemi, P., Heikkinen, P., Malm, M., Leso, N., Saari, J., Puttonen, J. & Jussila, V., 2013, *SAFIR2014, The Finnish Research Programme on Nuclear Power Plant Safety 2011-2014, (Interim Report)*. Simola, K. (red.). Espoo: VTT Technical Research Centre of Finland, Vol. 80. s. 373-381 8 s. (VTT Technology; vol. 80).

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

Grad, M., Tiira, T., Olsson, S. & Komminaho, K., 24 okt 2012, *The 43rd Nordic Seismology Seminar: Programme, Abstracts, List of Participants*. s. 8 1 s.

**Shallow swarm-type earthquakes in south-eastern Finland**

Smedberg, I., Uski, M., Tiira, T., Korja, A. & Komminaho, K., 24 okt 2012, *The 43rd Nordic Seismology Seminar: Programme, Abstracts, List of Participants*. s. 28 1 s.

**Crustal seismic structure and depth distribution of earthquakes in the Archean Kuusamo region, Fennoscandian Shield**

Uski, M., Tiira, T., Grad, M. & Yliniemi, J., 2012, I : Journal of Geodynamics. 53, s. 61-80 20 s.

**Data processing and analysis system for the Pyhäjoki seismic network**

Kortström, J., Uski, M., Tiira, T. & Korja, A., 2012, Helsinki: Institute of Seismology, University of Helsinki. 15 s. (Report T; nr. 86)

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### **Lower lithospheric structure beneath the Trans-European Suture Zone from POLONAISE'97 seismic profiles**

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### **NEW GEOPHYSICAL RESULTS ASSOCIATED WITH THE DEEP STRUCTURE OF THE PANNONIAN BASIN**

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**Detecting teleseismic events using 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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### **Spatial and diurnal noisecharacteristics of the FINESS array**

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### **Noise characteristics of the upgraded FINESS array**

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### **Seismisten tapausten paikantaminen geneettisten algoritmien avulla**

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### **Study of the locating capability of genetic algorithms**

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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**

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### **Crust and upper mantle structure along the DSS Baltic profile in SE Finland**

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## **Priser**

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

Marek Grad (!!Recipient), T. Tiira (!!Recipient), Sverker Olsson (!!Recipient) & Kari Komminaho (!!Recipient), 2014

## **Press/media**

### **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 objekt av Mediabevakning

### **Haastattelu maanjäristysten ennustettavuudesta**

Timo Tiira

15/05/2011

1 Mediabidrag

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

T. Tiira

09/09/2019

1 objekt av Mediabevakning

### **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 objekt av Mediabevakning

## **Aktiviteter**

### **First AlpArray Science Meeting**

Timo Tiira (Närvarande)

29 aug 2018 → 30 aug 2018

### **Acta Geophysica (Tidskrift)**

Timo Tiira (Referentgranskare)

2018 → ...

### **Applied Geophysics (Tidskrift)**

Timo Tiira (Referentgranskare)

2018 → ...

### **EGU General Assembly 2018**

Timo Tiira (Poster presentation)

2018 → ...

### **ESC General Assembly Malta**

Timo Tiira (Poster presentation)

2018 → ...



**Journal of Seismology (Tidskrift)**

Timo Tiira (Referentgranskare)  
2018 → ...

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

Timo Tiira (Referentgranskare)  
28 sep 2017 → ...

**IAG-IASPEI 2017**

Timo Tiira (Närvarande)  
30 jul 2017 → 4 aug 2017

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

Timo Tiira (Närvarande)  
9 jul 2017 → 14 jul 2017

**CTBTO: Science and Technology 2017**

Timo Tiira (Närvarande)  
26 jun 2017 → 30 jun 2017

**EGU 2017 General Assembly**

Timo Tiira (Närvarande)  
24 apr 2017 → 28 apr 2017

**Tymon Skrzynic**

Timo Tiira (Värd), Kari Juhani Komminaho (Värd)  
27 mar 2017 → 21 apr 2017

**Journal of Seismology (Tidskrift)**

Timo Tiira (Referentgranskare)  
2017 → ...

**Computers & Geosciences (Tidskrift)**

Timo Tiira (Referentgranskare)  
22 aug 2016 → 12 sep 2016

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

Timo Tiira (Besökande forskare)  
26 okt 2015 → 29 okt 2015

**IUGG General Assembly**

Timo Tiira (Närvarande)  
25 jun 2015 → 1 jul 2015

**European Geosciences Union General Assembly 2015**

Timo Tiira (Närvarande)  
12 apr 2015 → 17 apr 2015

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

Timo Tiira (Medlem)  
2015 → ...

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

Timo Tiira (Medlem)  
2015 → 2018

**pro gradu/ Tommi Vuorinen**

Timo Tiira (Handledare)  
2015

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

Timo Tiira (Referentgranskare)  
2014 → 2015

**Monika Wilde-Piorko**

Timo Tiira (Vård)  
17 nov 2013 → 24 nov 2013

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

Timo Tiira (Referentgranskare)  
18 okt 2013 → 20 dec 2013

**European Geosciences Union General Assembly 2013**

Timo Tiira (Poster presentation)  
7 apr 2013 → 12 apr 2013

**Geophysical Journal International (Tidskrift)**

Timo Tiira (Referentgranskare)  
5 feb 2013 → mar 2013

**Lithosphere 2012 symposium**

Timo Tiira (Närvarande)  
6 nov 2012 → 8 nov 2012

**Geophysical Journal International (Tidskrift)**

Timo Tiira (Referentgranskare)  
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 (Besökande forskare)  
17 mar 2012 → 22 mar 2012

**4th PASSEQ Workshop**

Timo Tiira (Närvarande)  
14 mar 2012 → 17 mar 2012

**MIDCRUST Workshop**

Timo Tiira (Närvarande)  
13 feb 2012 → 14 feb 2012

**Studia Geophysica et Geodaetica (Tidskrift)**

Timo Tiira (Referentgranskare)  
15 nov 2011 → 5 dec 2011

**Prof Marek Grad**

Timo Tiira (Värd)  
29 aug 2011 → 28 sep 2011

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

Timo Tiira (Besökande forskare)  
13 feb 2011 → 26 feb 2011

**Workshop: Kallioperän 3D-hanke**

Timo Tiira (Närvarande)  
8 feb 2011

**Lithosphere 2010**

Timo Tiira (Poster presentation)  
27 okt 2010 → 28 okt 2010

**Marek Grad**

Timo Tiira (Värd)  
20 sep 2010 → 16 okt 2010

**ESC 32nd General Assembly**

Timo Tiira (Poster presentation)  
5 sep 2010 → 10 sep 2010

**University of Warsaw**

Timo Tiira (Besökande forskare)  
24 jan 2010 → 6 feb 2010

**Tectonophysics (Tidskrift)**

Timo Tiira (Referentgranskare)  
dec 2009

**DOBRE4 working group (Extern organisation)**

Timo Tiira (Medlem)  
1 aug 2009 → ...

**Acta Geophysica (Tidskrift)**

Timo Tiira (Referentgranskare)  
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 (Besökande forskare)  
10 okt 2008 → 23 okt 2008

**PANCAKE working group (Extern organisation)**

Timo Tiira (Medlem)  
1 okt 2008 → ...

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

Timo Tiira (Ordförande)

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 (Deltagare)

22 maj 2008 → 26 maj 2008

**European Geophysical Union, General Assembly 2008**

Timo Tiira (Poster presentation)

13 apr 2008 → 18 apr 2008

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

Timo Tiira (Referentgranskare)

1 jan 2008 → 31 dec 2008

**Polish Polar Research (Tidskrift)**

Timo Tiira (Referentgranskare)

1 jan 2008 → 31 dec 2008

**Marek Grad**

Timo Tiira (Värd)

16 sep 2007 → 12 okt 2007

**Attila Kovacs**

Timo Tiira (Värd)

18 aug 2007 → 25 aug 2007

**Endre Hegedus**

Timo Tiira (Värd)

18 aug 2007 → 25 aug 2007

**Istvan Torok**

Timo Tiira (Värd)

18 aug 2007 → 25 aug 2007

**Marek Grad**

Timo Tiira (Värd)

24 sep 2006 → 4 nov 2006

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

Timo Tiira (Ordförande)

3 sep 2006 → 8 sep 2006

**Geological Survey of Lithuania**

Timo Tiira (Besökande forskare)

13 jun 2006 → 22 jun 2006

**European Geophysical Union General Assembly 2006**

Timo Tiira (Poster presentation)

2 apr 2006

**Monika Wilde-Piorko**

Timo Tiira (Värd)

15 mar 2006 → 29 mar 2006

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

Timo Tiira (Besökande forskare)

16 feb 2006 → 18 feb 2006

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

Timo Tiira (Sekreterare)

1 jan 2006 → 31 dec 2006

**Geophysical Journal International (Tidskrift)**

Timo Tiira (Referentgranskare)

1 jan 2006 → 31 dec 2006

**PASSEQ working group (Extern organisation)**

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1 jan 2006 → ...

**Disaster Early Warning System Feasibility Study Seminar**

Timo Tiira (Närvarande)

9 dec 2005

**University of Warsaw**

Timo Tiira (Besökande forskare)

20 nov 2005 → 26 nov 2005

**Marek Grad**

Timo Tiira (Värd)

18 sep 2005 → 28 okt 2005

**Vienna University of Technology**

Timo Tiira (Besökande forskare)

5 sep 2005 → 15 sep 2005

**Workshop: Geodynamics of Central Europe**

Timo Tiira (Närvarande)

30 maj 2005 → 3 jun 2005

**ALPASS working group (Extern organisation)**

Timo Tiira (Medlem)

1 maj 2005 → ...

**European Geophysical Union, General Assembly 2005**

Timo Tiira (Poster presentation)

24 apr 2005 → 30 apr 2005

**EUROARRAY meeting**

Timo Tiira (Närvarande)

14 mar 2005 → 17 mar 2005

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

Timo Tiira (Sekreterare)  
1 jan 2005 → 31 dec 2005

**Geophysical Journal International (Tidskrift)**

Timo Tiira (Referentgranskare)  
1 jan 2005 → 31 dec 2005

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

Timo Tiira (Sekreterare)  
1 jan 2004 → 31 dec 2004

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

Timo Tiira (Medlem)  
1 jun 2003 → ...

**ALP2002 working group (Extern organisation)**

Timo Tiira (Medlem)  
1 jun 2002 → 31 dec 2009

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1 jan 2001 → ...

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6 dec 1994 → 12 dec 1994

**Annali di Geofisica (Tidskrift)**

Timo Tiira (Referentgranskare)  
1994

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**Acta Geophysica (Tidskrift)**

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28 sep 2017 → ...

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27 mar 2017 → 21 apr 2017

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Timo Tiira (Besökande forskare)  
13 jun 2006 → 22 jun 2006

**Monika Wilde-Piorko**

Timo Tiira (Värd)  
15 mar 2006 → 29 mar 2006

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

Timo Tiira (Besökande forskare)  
16 feb 2006 → 18 feb 2006

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

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1 jan 2006 → 31 dec 2006

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20 nov 2005 → 26 nov 2005

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Timo Tiira (Besökande forskare)

5 sep 2005 → 15 sep 2005

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

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1 jan 2005 → 31 dec 2005

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Timo Tiira (Referentgranskare)

1 jan 2005 → 31 dec 2005

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

Timo Tiira (Sekreterare)

1 jan 2004 → 31 dec 2004

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

Timo Tiira (Medlem)

1 jun 2003 → ...

**ALP2002 working group (Extern organisation)**

Timo Tiira (Medlem)

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**FIRE working group (Extern organisation)**

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6 dec 1994 → 12 dec 1994

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1994