

**Annual Report no 4
Project EVR1-2000-40007 “MEREDIAN”**

Appendix III

MEREDIAN CONSORTIUM:

Royal Netherlands Meteorological Institute (KNMI) co-ordinator	E
Istituto Nazionale di Geofisica e Vulcanologia (INGV)	I
National Observatory of Athens / Institute of Geodynamics (NOA-IG)	EL
Geoforschungszentrum Potsdam (GFZ)	D
Centre National de la Recherche Scientifique (CNRS)	F
Zentralanstalt für Meteorologie und Geodynamik (ZAMG)	A
Eidgenössische Technische Hochschule Zürich (ETHZ)	CH
Norwegian Seismic Array (NORSAR)	NO
Environmental Agency Republic Slovenia (EARS)	SI
Geophysical Institute Academy of Sciences Czech Republic (IG-ASCR)	CZ
Geophysical Institute Slovak Academy of Sciences (GISAS)	SK
National Institute of Research and Development for Earth Physics (NIEP)	RO
Geophysical Institute Bulgarian Academy of Sciences (BAS-GI)	BG
Institute of Geophysics Polish Academy of Sciences (IGFPAS)	PL
University of Malta (UOM)	MT
Geological Survey of Estonia (GSE)	EE
Geodetical Geophysical Research Institute Hungarian Academy Sciences (GGRI-HAS)	HU

**MEREDIAN CONTRACT No: EVR1-CT-2000-40007
Developing existing earthquake data infrastructures towards
Mediterranean-European Rapid Earthquake Data Information and Archiving Network**

Presentations involving MEREDIAN.

This list provides an overview of the presentations, posters and publications during the whole project. The list may not be completely up-to-date.

2004

- Sleeman, R., 2004. *Quality assessment of seismic digitizers at low frequencies and implications for seismic background noise analysis*. 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany.
- Saul, J., A Heinloo, W. Hanka and the 'EuroNet' group, 2004. *Benefits of Internet real-time data exchange for rapid earthquake monitoring and user waveform access*. 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany
- Mazza, S., M. Olivieri, A.G. Mandiello, E. Del Prete, 2004. *MedNet status report*. 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany
- Melis, N., G. Stavrakakis, K. Boukouras, 2004. *The Hellenic broadband seismic network (HL) as it is operated at the Institute of Geodynamics of the National Observatory of Athens*. (Poster). 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany
- Ionescu, C., B. Grecu, A. Marmureanu, D. Ghica, M. Popa, 2004. *Romanian real-time digital seismic network – Data acquisition and Processing*. 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany
- Van Eck, T., L. Calje, R. Sleeman and B. Dost, 2004. *EC-project MEREDIAN and the Virtual European Broadband Seismic Network (VEBSN)*. 35th Nordic Seminar on detection seismology, Åkerberga, Sweden, September 29-October 1, 2004.
- MEREDIAN consortium, VEBSN participants, ORFEUS, T. van Eck, L. Calje, R. Sleeman, B. Dost, 2004. *The Virtual European Broadband Seismograph Network (VEBSN)*. 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany
- Labak, P. Moczó, P., Kristek, J., 2004. *Building the Slovak seismological network: a new era in monitoring of earthquakes in the Western Carpathians*. 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany.
- Labak, P. 2004. *Slovak National Network of seismic stations*. Workshop on "How to build a virtual seismic network from scratch". June 9-13, 2004. Valbandon, Croatia.
- Labak, P. 2004. *Contribution of Slovak National Network of Seismic Stations to FDSN*. FDSN meeting at 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany.
- Costa, G., P.L. Bragato, F. Fitzko, N. Horn, M. Kobal, E. Priolo, P. Suhadolc and M. Živčić, *The INTERREG IIIA project: "Transnational seismological networks in the South-Eastern Alps (poster)*, ESC XXIX General Assembly, Potsdam, Germany, 12 – 17 September, 2004
- Kobal, M., J. Kolar, J. Pahor and M. Živčić, *Performance of the Slovene seismic network (poster)*, ESC XXIX General Assembly, Potsdam, Germany, 12 – 17 September, 2004
- Solakov, D. Simeonova, S., Dimitrova, L. *Bulgarian Seismological Network – Involvement in European Earthquake Data Infrastructures (poster)*. September 12-17, 2004, ESC XXIX Gen.Ass., Potsdam, Germany
- Solakov, D., S. Simeonova, L. Christoskov and L. Dimitrova, 2004. *Bulgarian achievements in EC MEREDIAN project*. October 4-5 2004, Sofia, Bulgaria 4-th National Geophysical Conference,
- Solakov, D., S. Simeonova and L. Dimitrova., 2004. *Bulgarian seismological network – involvement in European earthquake data infrastructure (Poster)*. 29th General Assembly ESC, September 12-17, 2004, Potsdam, Germany
- Zedník, J., B. Růžek, P. Jedlička, Z. Hudová: *Current status of the Czech Seismological Service and Network*, Czech-Slovak Seismological Days, Castle Smolenice, June 1-4, 2004
- Zedník, J., B. Růžek, J. Pazdírková: *Czech Regional Seismological Network as part of the Virtual European Broadband Seismological Network: Progress achieved within the MEREDIAN-Project*, Session SCB-1, "Practical seismology: Networks, instrumentation and observation", (poster) 29th ESC General Assembly, Potsdam, September 12-15, 2004

2003

- Bragato, P., Costa, G., Horn, N., Michelini, A., Močnik, G. and Živčić M., *Real-Time Data and Network Integration in the southern Alps*, EGS-AGU-EUG joint assembly, Nice, France, 7-11 April, 2003, Geophysical Research Abstracts, Vol. 5, 08690, 2003
- Živčić, M., *Overview of the recent activities in Seismology and Geophysics in Slovenia*, "Science and Technology for Safe Development of Lifeline Systems, Natural Risks: Developments, Tools and Techniques in the CEI Area", First International Conference, Sofia, Bulgaria, 4 – 5 November, 2003
- Živčić, M., *Virtual Broad band Seismic Network of the Republic of Slovenia*, Meeting of the SE Europe seismologists "Upgrading Seismological Networks in SE Europe", Ig, Slovenia, 16-18 November, 2003
- van Eck, T., J. Zedník, *The EC project MEREDIAN*; Geophysical Service of the Russian Academy of Sciences, Obninsk, September 26, 2003.
- Van Eck, T., J. Schweitzer and MEREDIAN consortium, MEREDIAN: Waveform data exchange in Europe. 34th Nordic Seminar on Detection Seismology, Flåm, Norway, June 4-6, 2003.
- Mazza S., Amato A., *New Developments of the Seismic Monitoring System in Italy*, Workshop for the Mionica Earthquake 5th Anniversary, Valjevo, Serbia, 30 Sep 2003.
- Galea, P. *The Seismicity of the Sicily Channel Rift Zone*, 16th RELEMR workshop (UNESCO-USGS-EMSC), Cyprus 10-14 September 2003.
- Labák, P., 2003. *National Network of Seismic Stations*. Invited presentation at the 5th Slovak geophysical conference. June 12-13, 2003, Bratislava, Slovak Republic.

2002

- Bernardi, F., Braumiller, J., Kradolfer, U., Giardini, D., *Automatic moment tensor inversion in the European-Mediterranean region*, AGU fall meeting, San Francisco, December 2002.
- Bernardi, F., Braumiller, J., Kradolfer, U., Giardini, D., *Fully automatic regional moment tensor inversion in the European Mediterranean area*, ESC conference Genoa, Italy, 2002.
- Bernardi, F., Braumiller, J., Kradolfer, U., Giardini, D., *Fully automatic regional moment tensor inversion in the European Mediterranean region*, EGS conference Nice, France, 2002.
- Braunmiller, J., *Source parameters of European intraplate earthquakes*, AGU fall meeting, San Francisco, December 2002.
- Braunmiller, J., Bernardi, F., Roten, D., *Momententensor Inversion - Regional, lokal, schnell, langsam* 28. Sitzung Arbeitsgruppe Seismologie, Potsdam, Germany, 25.-27.9. 2002.
- Braunmiller, J., *A regional moment tensor catalog for Europe* EGS conference Nice, France, 2002.
- Costa, G., Suhadolc, P., Michelini, A., Covoni, A., Bragato, P.L., Zivcic, M., Mocnik, G., Melichar, P. & Lenhardt, W. 2002. *Real-time data integration in the Southern Alps*. Poster, EMICES workshop in Barcelona, 23-25 October 2002, Institut d'Estudis Catalans, Spain.
- Hanka, W. and A. Heinloo. *Near Real-Time Data processing in the GEOFON Network*, poster presentations at the 28th General Assembly of the ESC, Genoa, Italy. September 1-6, 2002..
- Goutbeek, F. *The MEREDIAN project at ORFEUS*. Presentation Seismological Institute, Helsinki, Finland. March 6, 2002.
- Pesaresi, D., Horn, N., Mocnik, G., Svancara, J., Costa, G. & Rossi, M. 2002. *Data exchange at the Italian CTBTO NDC*. Poster, EMICES workshop in Barcelona, 23-25 October 2002, Institut d'Estudis Catalans, Spain.
- Trabant, C., T. van Eck, B. Dost, R. Sleeman and the MEREDIAN consortium *The virtual European broadband Seismograph Network (VEBSN)*. 28th General Assembly of the ESC, Genoa, Italy. September 1-6, 2002.
- Trabant, C. *Real-time data transfer initiative: Phase 1: Separating the curd from the whey ...*, 14th Annual Workshop IRIS, FDSN WG3 meeting, Hawaii, USA. June 13, 2002
- Van Eck, T. and MEREDIAN consortium. *Present status at ORFEUS and progress within the EC-project MEREDIAN* Presentation at the Arbeits Gruppe Seismologie meeting. GFZ, Potsdam, Germany. September 25, 2002 (T. van Eck).
- Van Eck, T., B. Dost, R. Sleeman, C. Trabant and F. Goutbeek. *ORFEUS: Status and developments (MEREDIAN project)*. poster presentations at the 28th General Assembly of the ESC, Genoa, Italy. September 1-6, 2002. One poster contains a presentation of MEREDIAN project.

- Van Eck, T., B. Dost, C. Trabant, R. Sleeman, F. Goutbeek, MEREDIAN and EMICES consortia. *Mediterranean-European Rapid Earthquake Data Information and Archiving Network*. 28th General Assembly of the ESC, Genoa, Italy. September 1-6, 2002.
- Van Eck, T. . *ORFEUS and its EC-projects*, UK Seismology - 2002 and beyond, discussion meeting. Leicester, UK. May 8, 2002.
- Van Eck, T., C. Trabant, A. Heinloo, B. Dost, F. Goutbeek, W. Hanka and the MEREDIAN consortium. *Towards a Virtual European Broadband Seismograph Network*,. Poster to the EGS 2002, Nice, April 22-26, 2002.

2001

- Dost, B. *MEREDIAN and ODC developments*. Presentation at "Die Arbeitsgruppe Seismologie" yearly meeting. Germany, September, 2001.
- Dost, B. *Data acquisition and international data exchange: An ORFEUS-MEREDIAN perspective*, ODC Conference "Integrating the seismic monitoring in Central Europe", Udine, Italy, September 14-15, 2001
- Mazza, S. *Real-time very broad band data acquisition and distribution at MedNet: advantages for the seismological research*, Workshop sur la Sismicite et la Gestion du Risque Sismique dans la region Euro-Mediterraneenne, 18-19 June 2001, Agadir, Marocco
- Trabant, C. *Implementing real-time data exchange at the ORFEUS Data Center*, ORFEUS/MEREDIAN Workshop "Beyond frontiers: Seismic Networks in the Southern Alps", Trieste, Italy. September 6-7, 2001.
- Van Eck, T. *MEREDIAN: Planning and developments*, MEREDIAN, EPSI co-ordination meeting, Paris, France. September 25, 2001.
- Van Eck, T. *MEREDIAN - ORFEUS* presentation at RELEMR workshop Santa Susanna, Barcelona, Spain, May 21, 2001
- Van Eck, T. and MEREDIAN consortium "*Rapid Earthquake Waveform data exchange in Europe*" at Poster session SE12.02, EGS XXVI General Assembly, Nice, France. March, 2001.
- Živčić, M. *Seismic Network of the Republic of Slovenia*, 'Integrating the Seismic Monitoring in Central Europe' conference, Udine, Italia, 14 - 16 September, 2001

2000

- Deschamps, A. *MEREDIAN* presentation at Symposium 2000, Alger, Algiers, October 9-11, 2000.
- Dost, B. *MEREDIAN* Presentation at "Die Arbeitsgruppe Seismologie" yearly meeting, Germany, September, 2000.
- Sleeman, R. *ORFEUS-MEREDIAN* presentation at CTBTO Evaluation workshop 2000, Edinburgh, UK, 9-12 May.
- Van Eck, T. *MEREDIAN* presentation at EC-workshop "Natural and technological hazards research in the European Union: Contribution to MEDIN", Brussel, Belgium. 15-16 November 2000.
- Van Eck, T. *MEREDIAN/ORFEUS* presentation at the EC Conference on Research Infrastructures, September 18-20, 2000, Strasbourg, France.
- Van Eck, T. *MEREDIAN* presentation at the General Assembly ESC, Lisbon, Portugal, September 10-15, 2000.
- Van Eck, T. *ORFEUS-MEREDIAN* presentations at RELEMR workshop, Istanbul, Turkey, 29 May - 2 June.
- Van Eck, T., B. Dost, R. Sleeman and MEREDIAN consortium. *ORFEUS-MEREDIAN* abstract poster at 5th Dutch EarthScience Conference, Veldhoven, Netherlands. 20-21 April 2000 and XXV General Assembly EGS, Nice, France. 29 April 2000.

Publications involving MEREDIAN:

This list contains publications that involve accomplishments, products and results etc out of the MEREDIAN project. These may not necessarily always involve MEREDIAN consortium members.

2004

- J. Zedník, A. Plešinger and J. Pazdírková, 2004. Earthquakes and Seismological observatories (in Czech), *Czechoslovak Journal of Physics*, **54**, No. 4/2004, 169-172.
- Van Eck, T., C. Trabant, B. Dost, W. Hanka and D. Giardini, 2004. *Setting up a Virtual Broadband Seismograph Network across Europe*. EOS, Transaction American Geophysical Union, **85**, 13, 125-129.

2003

- Barruol G., Deschamps Anne, Coutant Olivier. 2003. Mapping upper mantle anisotropy beneath SE France by SKS splitting: evidence for a Tertiary asthenospheric flow induced by the Apulian slab rollback and in deflected by the deep Alpine roots. *Tectonophysics*. 14 p. (submitted)
- Cipciar, A., Labák, P., Moczo, P., Kristeková, M., 2002. Monitoring of seismic events by the National Network of Seismic Stations. *Geologické práce. Správy* 107. Bratislava. (in Slovak).
- Fyen, J. & K. Iranpour (2003): *Near real time data at NORSAR for CTBT monitoring*. ORFEUS Newsletter **5**, (2), see also <http://orfeus.knmi.nl/newsletter/vol5no2/norsar.html>
- Moczo, P., Labák, P., Cipciar, A., Kristek, J., Kristeková, M., Bielik, M., Šajgalíková, J., Rezuchová, D., 2002. 100 rokov seizmológie na Slovensku – 100 Years of Seismology in Slovakia. *Geophysical Institute, Slovak Academy of Sciences Bratislava, Faculty of Mathematics, Physics and Informatics, Comenius University Bratislava*. ISBN 80-85754-11-8. (in Slovak and English).
- Pedersen H., Coutant O., Deschamps A., Soulage M., Cotte N., 2003. Measuring surface wave phase velocities beneath small broad-band arrays: tests of an improved algorithm and application to French Alps, *Geophys. J. Int.*, **154**, 3, 903-912.
- Solakov, D., Simeonova, L. Christoskov and L. Dimitrova, 2003. The EC MEREDIAN project. *BJG*, **29**, 1-4, 43-47
- Solakov, D., Simeonova, L. Christoskov and L. Dimitrova, 2003. Bulgarian participation in EC project MEREDIAN. *J. of the BAS*, **CXVI**, 4, 46-51
- Schweitzer, J. (2003): *NORSAR's Event Warning System (NEWS)*. NORSAR Scientific Report **1-2003**, 27-31.

2002

- Braunmiller, J., Kradolfer, U., Baer, M., and Giardini, D., 2002. Regional moment tensor determination in the European-Mediterranean area - initial results, *Tectonophysics*, **356**, 5-22
- Grecu, Bogdan, Daniela Ghica, Mihaela Popa, Mihaela Rizescu, Constantin Ionescu, 2002. Earthquake Monitoring by Seismic Network of National Institute for Earth Physics. *Revue Roumaine de Geophysique*, **46**, Dec. 2002
- Rizescu, M., Radulian, M., Grecu, B., Popa, M., Ionescu, C., 2002. National Institute of Research and Development for Earth Physics, Bucharest: 25 years of activity. *EMSC Newsletter*, **18**, September 2002.
- Rizescu, M., Ionescu, C., Popa, M., Grecu, B., Ghica, D., 2002. Contributions to Real-Time Seismology in Romania. In: Special Volume "*International Conference: Earthquake Loss Estimation and Risk Reduction*", Bucharest 24-26 October 2002.
- Van Eck, T., C. Trabant, A. Heinloo, B. Dost, R. Sleeman, F. Goutbeek, W. Hanka, E. Carenno, M. Tome de la Vega, S. Mazza, A. Mandiello, M. Ollivieri, G. Chouliaras, N. Melis, A. Deschamps, W. Lenhardt, N. Horn, M. Baer, J. Schweitzer, M. Zivcic, G. Mocnik, K. Solomi, J. Zednik, J. Kivisilla, G. Roult, M. Granet, K. Stammler, A. Shapira, M. Russi, G. Costa, P. Wiejacz, E. Buforn, A. Pazos, M. Aktar, D. Kalafat. 2002. Towards a Virtual European Broadband Seismograph Network. *ORFEUS Electronic Newsletter*, **4**, p. 5. <http://orfeus.knmi.nl/newsletter/vol4no1/vebsn.html>

- Van Eck, T.. 2002. MEREDIAN; an infrastructure for rapid exchange of earthquake waveform data in Europe. In: *Proceedings of the first EU-MEDIN workshop on Natural and Technological Hazards*, DGR EESD publication EUR 20199, pp56-59.
- Van Eck, T., B. Dost, C. Trabant, R. Sleeman and F. Goutbeek, 2002. Developments at ORFEUS and its Data Center. *ORFEUS Electronic Newsletter*, **4**, p. 13.

2001

- Zedník J., Pospíšil J., Růžek B. , Horálek J., Boušková A., Jedlička P., Skácelová Z., Nehybka V., Holub K., Rušajová J., 2001. Earthquakes in the Bohemian Massif and the vicinity in 1995-1999, *Studia Geophys. et Geod.*, **45**, 267-282.
- Van Eck, T., B. Dost and W. Hanka, 2001. European scale real-time waveform data exchange. *EMSC Newsletter*, **17**, p 11.

2000

- Hanka, W., A. Heinloo and K-H Jaeckel, 2000. Geofon real-time data distribution. *ORFEUS Electronic Newsletter*, **2**, p 24.
- Van Eck, T., 2000. New EC-project at ORFEUS: MEREDIAN. *ORFEUS Electronic Newsletter*, **2**, p 16.
- Van Eck, T., 2000. New EC-project: MEREDIAN, *EMSC Newsletter*, **16**, p 11.