



Evoltree is a large EU-funded Network of Excellence to analyze the impacts of climate change on forest ecosystems. A better understanding of the evolutionary history of forest trees can help us to predict how they might respond to climate change.

JERA 4: Dynamics of biodiversity and evolution of populations

Objectives of JERA4 Reiner Finkeldey

We intend to conduct research further elucidating the dynamics of intraspecific biodiversity at different temporal and spatial scales. Most projects are conducted following a competitive call for proposals launched during WP 2. We also link studies of Holocene dynamics more closely to present-day genetic structures. Future projections of the impacts of extreme climatic events will be developed. The role of global change in the past, present or future for shaping the dynamics of biodiversity is the focus of most projects in WP 3.

Description of work of sub-activities

JERA 4.1 Past dynamics of diversity Richard Bradshaw

Ancient DNA studies will move from the pilot phase to more focused studies during WP3. Key species are *Fagus sylvatica* and *Picea abies*, and populations are to be sampled which show distinctive genetic variation at present (e.g. *Picea* in Switzerland), or have contrasting Holocene spreading histories (e.g. *Fagus* in Germany and Italy). Continued development of the European Pollen Database will increase ability to resolve regions and time periods with unusual spreading dynamics for the major European tree species.

Spreading histories for *Fagus* and *Picea* are to be explored using a specific dispersal model and techniques of data-model comparison. A new collaboration has led to data-model comparison activities for forest fires during the Holocene. This important type of forest disturbance has varied in frequency and intensity and had a major impact on forest composition and structure. A data-model comparison for NW Europe using charcoal data and the SPITFIRE model will be carried out during WP3.

Task J4.1.3: Paleoecological database; European Pollen Database (EPD), from which the past distributions of tree species can be reconstructed

The CNRS organization in EVOLTREE is composed of 5 units. Partner 18a works on biodiversity and global change under ecological, genetical and evolutionary process. The main competences of 18a comprise population genetics, genomics, evolution and ecophysiology in tree species. Partner 18b and Partner 18d helps maintaining the European pollen database. Partner 18b and 18d have an extensive experience in palynology and paleodata for reconstructing past environments. Partner 18c and 18e competences are comparative genomics approaches and the development of methods and tools for the integration of data and information related to genomics and functional genomics. Partner 18c

and 18e have also an important competence and responsibility in functional genomics platform.

Partner involved P18b (A) 3: CNRS-UMR6116 (IMEP) Jacques-Louis de Beaulieu, Frédéric Médail, Valérie Andrieu and and Michelle Leydet

JERA 4 is the only which included palaeoecologists among the large set of geneticists involved in EVOLTREE. Our contribution in the network is to provide to our partners historical information on the past dynamics of forest trees in relation with global change and human impact. This set of data will bring a better understand the origin of their present settlement, their phylogeography, their ecological background and their ability of adaptation to the present global warming.

Latest news of the EPD activities on the Evoltree Internal Newsletter Michelle Leydet

EVOLTREE Internal Newsletter Issue 3, 2010

JERA 4.1: New pollen data submission and incoming meetings

2 pollen data sets from France have been submitted by Yannick Miras, Palynologist at the University of Blaise Pascal (Clermont-Ferrand, France). These data sets concern the Holocene period and are located in the Massif Central in France. The EPD will attend a meeting in Besançon (France) from April 1st to 2nd, 2010, to deal with the integration of the French Pollen Database at the laboratory of Chrono- Environment (University of Franche-Comté) into the EPD.

The EPD will organise a meeting in Aix-en-Provence from April 12th to 13th, 2010, to deal with current and future activities. The following persons will attend the meeting: the EPD chairperson Richard Bradshaw (University of Liverpool), the EPD Data Manager Michelle Leydet (University of Aix-en- Provence) and Cyrille Blanpain, the IT responsible for the EPD server (University of Mediterranean). The EPD will visit the Institute of Sciences' Evolution (University of Montpellier2, Montpellier, France) at the end of April 2010 to retrieve old European pollen data sheets remained previously in Arles and partly transferred in Aix-en-Provence.

EVOLTREE Internal Newsletter Issue 2, 2010

JERA 4.1: New pollen data set submitted to the EPD and Irish Research Project

2 pollen data sets have been submitted to the European Pollen Database (EPD) by Walter Finsinger from the Institute of Botany (University of Montpellier II, Montpellier, France). These date sets are located in Switzerland (Lac de Fully, Valais) and in the North of Italy (Lago Grande di Avigliana) and concern the Holocene period. They are published in the Holocene (17:1119-1127) and in the Journal of Paleolimnology (36:55-67) respectively.

Dr Rob Marchant from the University of York (UK) and Dr Fraser Mitchell from Trinity College (Dublin, UK) have synthesised existing Late-Glacial and Holocene pollen records from sites across Ireland. The synthesised data set will be analysed to investigate temporal and spatial variation in vegetation communities over the last 15000 years with special

emphasis on the role of climate. This research project (Irish Palaeoecological Data Synthesis and Analysis Project) will provide to the EPD with 400 new Irish pollen data sets.

Dr Morteza Djamali from the University of Aix-Marseille (France) has become a new member of the Taxonomy Working Group of the EPD in January 2010. His research includes the Middle Eastern palynology and he has published several pollen diagrams from different parts of Iran.

EVOLTREE Internal Newsletter Issue 1, 2010

JERA 4.1: New Pollen Data submitted to the EPD and new EPD Support Group created

A new support group has been created in the European Pollen Database for the pollen surface samples by Basil Davis (Ecole Polytechnique de Lausanne, Switzerland) and Odile Peyron (University of Franche-Comté, France). The objective of this group will be to collect, document, incorporate and maintain surface samples data within the EPD for the benefit of the scientific community. Pollen surface samples provide a key resource for understanding and interpreting the fossil pollen record. Examples include

investigating the relationship between pollen and actual vegetation or land-use, taphonomic problems (such as upslope transport or source area size), and the development of pollen-climate transfer functions. All details can be found in the [Wiki](#) on the EPD website.

3 pollen data sets have been submitted to the EPD by Prof. Dr. Manfred Rösch (Labor für Archäobotanik, Hemmenhofen, Germany). These data sets are located in Germany and concern the Holocene period.

Dr. Martine Clet, retired palynologist from France, has been contacted to submit all her pollen data to the EPD. Many of her data sets are located in the Normandy and in the Seine valley in France. These data sets concern the Holocene and the Pleistocene period and will be the oldest data available in the EPD. Nick Branch, Senior Lecturer in Palaeoecology (School of human and environmental Sciences, University of Reading, UK) will submit several pollen diagrams from the Ligurian Apennines (Italy) to the EPD.

EVOLTREE Internal Newsletter Issue 10, 2009

JERA 4.1: Incoming Pollen Data (European Pollen Database)

9 pollen data sets have been submitted to the EPD by Maria Guadalupe Pulido Avila (University of Guadalajara, Mexico). These data sets are located in the South of the Massif Centra (France) and concern the Post-Glacial vegetation history. The data sets are studied in the thesis by Maria Pulido (Université Paul Cezanne, France, 2006). 2 sets have been published in "Vegetation History and Archaeobotany" ([2007, Vol 16, No 4, 251-258](#)).

Dr. Jutta Lechterbeck (Landesamt für Denkmalpflege, Hemmenhofen, Germany) will submit German pollen data to the EPD.

Hervé Richard, researcher at the chrono-environnement laboratory at the University of Besançon (France), has agreed to submit all French pollen data sets available in the Besancon pollen database to the EPD. These 100 pollen data sets will be integrated into the [EPD](#) at the beginning of 2010.

EVOLTREE Internal Newsletter Issue 9, 2009

JERA 4.1: New pollen data contributions and current EPD projects

One pollen data set has been submitted to the EPD by Spassimir Tonkov, professor at the Department of Botany (University of Sofia, Bulgaria). This data is located in the area of Straldzha mire (southeastern Bulgaria) and concerns the last 4000 years history of vegetation and landscape. The data has been published in [Grana, Volume 48, Issue 3, pages 235-237](#). Another pollen data set has been submitted to the EPD by Norbert Kühl from the Institute for Paleontology (University of Bonn, Germany). This data is located in Drangstedt (Northern Germany) and deals with the last 6000 years vegetation history of this area. The data has been published in German: Kühl, N. (1998): "Pollenanalytische Untersuchungen zur Vegetations- und Siedlungsgeschichte in einem Kesselmoor bei Drangstedt, Ldkr. Cuxhaven" and "Probleme der Küstenforschung im südlichen Nordseegebiet" ([read more](#)).

Since 2009, the EPD has been involved in several international projects: [DYNAMITE](#) (Dynamic Models in Terrestrial Ecosystems and Landscapes, Bradshaw R. and Snowball); [FIREMAN](#) (Fire Management to maintain Biodiversity and mitigate Economic Loss, Bradshaw R.); Lang revisited (Gerhard-Lang-Book updated, Ammann B.); VR LANDCLIM (Land cover-climate Interactions in NW Europe 6000BP and 200BP: A novel model-data comparison Approach, Gaillard M.-J.); LUCCI (Holocene land-cover reconstructions, Sykers M.) and MERGE (Modelling the regional and global Earth System, Rummukainen, M.) All these projects will deliver new contributions and corrected data (chronologies, pollen counts and metadata) to the [EDP](#).

EVOLTREE Internal Newsletter Issue 8, 2009

JERA 4.1: New pollen contributions and Czech Pollen Database

Three pollen data have been submitted to the European Pollen Database by Dr. Sampson Panajiotidis, Lecturer at the School of Forestry and Natural Environment (Aristotle University in Thessaloniki, Greece). These data are located in the Paiko mount, in the Voras mount and in the Pieria Mountains (in the north of Greece). These pollen analyses concern the Holocene period. The Mount Paiko is published in the journal Grana ([Volume 47, Issue 4, Dec. 2008, pages 316-318](#)).

One pollen data set has been submitted to the EPD by Spassimir Tonkov, professor at the Department of Botany (University of Sofia, Bulgaria). This data is located in the Osogovo Mountains (in the south- west of Bulgaria) and the study includes four millennia of vegetation history. This data is available on the [EPD website](#) and is published in the journal Grana ([Volume 48, Issue June 2009, pages 147-149](#)).

The Czech team of palaeoenvironmentalists and palynologists (Petr Kunes, Vojtech Abraham, Oleg Kovarik, Martin Kopecky and Czech contributors) has created the PALYCZ (Czech Quaternary Palynological Database). More information and introduction on the database can be found at the [webpage](#) accessible after registration. The official announcement of Palycz is published in Preslia ([81:209-238, 2009](#)). This paper reviews the data on quaternary palynological sequences collected in the Czech Republic, attempts to store them in the Czech Quaternary Palynological Database (PALYCZ) and outlines a possible use for regional syntheses.

EVOLTREE Internal Newsletter Issue 7, 2009

JERA 4.1: Incoming pollen data for the European Pollen Database

The number of pollen sites will be contributed by Keith Bennett, professor at the *Queen's University in Belfast (UK)*, to the EPD. Numerous pollen data sets stored in the old Medias website have been identified by Jose Antonio Lopez Saez from the *Grupo de Investigación 'Arqueobiología' Instituto de Historia, Centro de Ciencias Humanas y Sociales (CCHS), Spain*. These Spanish data sets are going to be checked before being integrated into the database.

The 'National Contact points' support group of the EPD is updating the database. A member of this group, Klaus Oeggl, professor at the *Institut für Botanik (Leopold-Franzens-Universität, Austria)*, is looking for Austrian data - especially data from retired palynologists, which should not get lost. Walter Finsinger, palynologist at the *Centre de Bio-Archeologie et d'Ecologie, University of Montpellier II, France* is looking for Italian data and is going to send it. Wim Hoek, Dr at the *Department of Physical Geography, Utrecht University (Netherlands)*, is working on a mapping project which will provide several hundreds pollen diagrams to the EPD.

JERA 4.1: Review of missing pollen sites in the European Pollen Database

The National Contact Group of the European Pollen Database (EPD) has started a review of all European pollen sites which are not in the database. All members of this group are contacting European palynologists to contribute their data. This work is necessary to archive pollen data and to keep them safe from possible loss. This work will complete existing data with new studies: pollen analysis with chronology of new countries. It will be the work instrument for climatologists and ecologists who use the database for palaeobotanical mapping and climatic modeling applications. A final report will be available on the EPD website [Wiki](#).

EVOLTREE Internal Newsletter Issue 6, 2009

JERA 4.1: New data in the European Pollen Database and link between Pangea-EPD

One pollen data has been submitted to the European Pollen Database ([EPD](#)) by Ralph Fyfe, lecturer at the GIS School of Geography (University of Plymouth, UK). This data is located in the Pembrokeshire (south of the Presili Hills) at the Gors Fawr. It concerns the Holocene period and shows the human impact in this area during the Holocene. Ralph Fyfe is going to update all the archive data that he has been collecting over the last decade and to submit them to the EPD.

[PANGAEA](#) (Publishing Network for Geoscientific & Environmental Data) is happy to exchange data with the EPD in both directions. PANGAEA will also become the long term storage place for NEOTOMA. Thomas Giesecke from the University of Göttingen, Germany, will prepare a proposal to find money for Jörg Christiansen, who is well suited to help in the process of transferring data. He was the last one to maintain the German database holding metadata on pollen and macrofossil sites, which should be made more available and possibly parts could be placed within the NEOTOMA collection of databases.

EVOLTREE Internal Newsletter Issue 5, 2009

JERA 4.1: Incoming meeting and boring operation

The EPD will attend the 21st Congress of the APLF "Prospectives in Palaeontology and Palynology" between June 2nd and 4th, 2009 at the Catholique University of Lille, France. New Pollen analysis from Italy and Champsaur (South of France) will be presented. Three palynologists and one entomologist (Valérie Andrieu-Ponel, Frédéric Guiter, Morteza Djamali and Philippe Ponel) of the IMEP (Mediterranean Institute of Ecology and Palaeoecology) will manage new boring in the Iranian area to complete the existing studies with multiproxy analysis.

The open data of the EPD has been available at the [German Pangea](#) (Publishing Network for Geoscientific & Environmental Data) database since last year. German pollen data of the Pangea database will be integrated in the EPD in the future with the corresponding member Thomas Giesecke (Palynologist at the University of Göttingen, Germany).

EVOLTREE Internal Newsletter Issue 4, 2009

JERA 4.1: Submitted pollen data and EPD taxonomy review

166 new pollen data sets have been submitted by Pim van der Knaap (Palaeoecologist at the Institute of Plant Sciences, University of Bern) from the ALPADABA (the Alpine Pollen Database). More than 300 restricted pollen data sets from the ALPADABA will be checked by Pim van der Knaap and Daniele Colombaroli (PhD in the Institute of Plant Sciences) before they will be sent to the [European Pollen Database](#).

4 pollen data sets from Samuel Wegmuller (Palynologist) will be sent by Jacqueline van Leeuwen (Consultant Scientist at the Institute of Plant Sciences, University of Bern). 6 pollen data sets have been submitted by Maurice Reille via Jacques-Louis de Beaulieu. These data sets originate from the South of Italy and from the Italian Alps. They concern the Holocene period.

An automatic review of the taxonomy of the EPD has been started by Jacqueline van Leeuwen and Steffen Wolters (Senior Researcher at the Lower Saxony Institute for Historical Coastal Research in Wilhelmshaven, Germany). She will meet again the EPD taxonomy support group this year to finish the precise review. The EPD taxonomical dictionary contains 3500 taxa and needs to be reviewed following the EPD protocol for all users. This work is necessary for the integration of all data in the database.

EVOLTREE Internal Newsletter Issue 3, 2009

JERA 4.1: Upcoming Meeting and new Pollen Data

The European pollen database will visit the Institute of Botany in Bern (Switzerland) to store new pollen

data and to meet the EPD Taxonomy support group (Jacqueline van der Leuwen, University of Bern) from April 6 to 8 . The meeting will deal with the integration of the ALPADABA pollen database in the

EPD and the improvement of the taxonomy of the EPD existing pollen sites and new sites. One new pollen data has been submitted by Morteza Djamali, Palynologist in the Mediteranean Institute of Ecology and Palaeoecology (University of Aix-en-Provence, France). This pollen analysis is located in Urmia Lake (IRAN) and concerns the last 200 000 years scale. The data is the longest pollen sequence in the world and is checked before being integrating into the database. Two new pollen data sets have been submitted by Elena

Ortu, Palynologist in the CISM, Centre Interdisciplinaire Scientifique de la Montagne (Université de Savoie, France). The data sets are located in the Italian Alps (Torbiera del Biecai and Rifugio Mondovi) and concern the Lateglacial and the Holocene periods.

EVOLTREE Internal Newsletter Issue 2, 2009

JERA 4.1: Upcoming Meeting and new Pollen Data

The [European pollen database](#) will attend the Age-depth Model Meeting organized by the EPD Age- depth support group (Maarten Blaauw, University of Belfast), in Belfast between March 9th and 11th, 2009. The meeting will deal with the improvement of the Age-depth Model from the EPD existing pollen sites and new sites. There will also be an overview over the used models and constraints.

Eight new pollen data have been submitted by Ruth Drescher-Schneider, Palynologist at the Institute of Botany Karl-Franzens-University of Graz, Austria. These pollen analyses are located in Turino and Varese areas (Italy) and concern the Tardi- and Post-Glacial periods. These data will be checked before integrating it into the database.

EVOLTREE Internal Newsletter Issue 1, 2009

JERA 4.1: Result of the election of the chairperson of the European Pollen Database

From the discussions during the Bonn meeting the new European Pollen Database administrative structure will include an elected chairperson. Richard Bradshaw is elected as Chairperson of the EPD. More details are available on the [EPD wiki](#). Richard Bradshaw is Professor in the University of Liverpool, UK, in the Department of Geography. He has been member of the EPD Advisory Board since 2000 and has contributed to improve the EPD. New data sets are available in the database, one from Germany (site of Wangen/Bodensee) and three from Switzerland (site of Nussbaumer Seen). The data is available (and can be downloaded) on the [EPD website](#).

EVOLTREE Internal Newsletter Issue 11, 2008

JERA 4.1: New server for the European Pollen Database

The European Pollen Database has a new server. The database and the EPD website are hosted by the CEREGE (Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement) in Aix-en-Provence, France. The [EPD website](#) has kept the same address. The EPD has the Fossil Pollen Database viewer (FPD) updated on the CEREGE. The FPD tool was developed by Medias-France initially for the African Pollen Database to query and to view the database, then adapted for the EPD. The EPD will attend the 3rd Annual Meeting of EVOLTREE in Baden, Austria.

EVOLTREE Internal Newsletter Issue 10, 2008

JERA 4.1: New contributions coming for the European Pollen Database in 2009

To start the New Year with collecting new pollen data for the European Pollen Database, Jacques-Louis de Beaulieu, Emeritus Researcher at the Institute of Mediterranean Ecology and Palaeoecology (IMEP), and Michelle Leydet, data manager of the EPD (IMEP), will visit several European laboratories of Botany. The first travel will concern two Austrian laboratories: the Institute for Plant science of the Karl-Franzens-University of Graz and the Institute of Botany and Botanical Garden of the University of Innsbruck. This round is planned from the end of January to the beginning of February. It is the opportunity to extend the database with new pollen data for scientific users and to archive existing European pollen data in the European pollen bank.

EVOLTREE Internal Newsletter Issue 9, 2008

Election of the new administrative structure of the European Pollen Database

From the discussions during the Bonn meeting the new EPD administrative structure will include an elected chairperson. It was agreed that nominations for the office of EPD chairperson need to be proposed before the elections by at least one proposer and one seconder. All contributors and volunteers are invited to propose possible candidates (please make sure that the candidate accepts the nomination) and to communicate their nomination to the EPD database manager, Michelle Leydet (michelle.leydet@univ-cezanne.fr) no later than November 15th, 2008. Then an anonymous electronic election will be organized.

During the last IPC in Bonn in September 2008 the General EPD Assembly has discussed the future administrative structure of EPD and come to a decision. You can consult the minutes of the meeting on the EPD homepage www.europeanpollendatabase.net Because of the new structure the EPD protocol had to be adapted. The new protocol can be found at www.europeanpollendatabase.net

EVOLTREE Internal Newsletter Issue 8, 2008

JERA 4.1: New corrected data submitted to the European Pollen Database

26 corrected data have been submitted to the European Pollen Database by Simon Brewer, leader of the EPD Mapping and data Accuracy group, and Palaeoclimatologist in the laboratory of Atmospheric and Planetary Physics at the University of Liege, Belgium. These data provides new chronologies and corrected pollen count of the EPD existing data. The key goal of this group is to produce a new web version of a European pollen atlas which provides maps of the past pollen percentages for visualization, teaching purposes and as a basis for data model comparisons.

To achieve this goal the group has undertaken a systematic review of the data currently held in the EPD to identify problems with individual sites records and to flag errors for correction within the database. The age-depth models for each site within the database have also been checked. Members of the group combine different regional expertise so that diagrams from most European regions were checked by a person with knowledge about their regional vegetation history. The final dataset used to compile the atlas will be made available to the wider community following the completion of the project.

EVOLTREE Internal Newsletter Issue 7, 2008

JERA 4.1: New pollen data submitted to the European Pollen Database

Eighty surfaces samples have been submitted to the European Pollen Database by Barbora Pelankova, Paleoecologist at the Department of Botany and Zoology (Masaryk University, Czech Republic). These data will come out in the November 2008 issue of the Holocene revue: relationships of modern pollen spectra to vegetation and climate along a steppe-forest-tundra transition in southern Siberia, explored by decision trees. One pollen data has been submitted by Morteza Djamali, PhD at the IMEP laboratory (Institute Méditerranéen d'Ecologie et de Paleoecologie) of the University d'Aix-Marseille III. These data show the late Pleistocene long pollen record from Lake Urmia, NW Iran. A new pollen sequence with new dates has been submitted by Thomas Giesecke, Paleoenvironmentalist at the University of Liverpool. These data update an existing pollen site of the database: Lobsigensee located in Switzerland ([click here](#)). Two new contributors are interested to submit their data to the EPD: Nick Daffern, Environmental Archeologist (Pollen) from the Worcestershire archeological Service (University of Worcester, United Kingdom) and Jose Antonio Lopez Saez from the Institut of History (Archeology), Consejo Superior de investigaciones Cientificas (Madrid, Spain).

EVOLTREE Internal Newsletter Issue 6, 2008

JERA 4.1: New available data in the EPD

Nine open pollen data are available in the European Pollen Database and downloadable on the EPD website ([click here](#)). From these data, four are located in Romania (Avrig1, Avrig2, Mohos1 and Mohos2) and analysed by Ioan Tantau, palynologist in the University of Babes-Bolyai, Cluj-Napoca, Romania. Five are located in Norway (Dalmutladdo, Barheivatn, Vestre Oykjamyrtjorn, Trettetjorn, Brurskardjorni) and analysed by Anne Bjune, palynologist in the University of Bergen, Bergen, Norway. More details on the EPD website.

New updated data are available in the EPD website. Five open data from Slovakia (Bobrov, Zlatnicka Dolina, Jedlova) and Czech Republic (Velky Ded, Velky Maj) and one corrected data with new C14 dates (Velky Ded). This work has been done with the contribution of Petr Kunes, palynologist in the University of Prague, Czech Republic, and contributor in the mapping and accuracy working group of the EPD.

Five open pollen data have been submitted to the EPD by Thomas Giesecke, paleoenvironmentalist in the University of Liverpool, Department of Geography. These data are located in Sweden and concern the holocene period. Two open data have been submitted to the EPD by Petr Kunes Charles, palynologist in the University of Prague, Czech Republic. These data are located in Czech Republic and concern the Holocene period.

EVOLTREE Internal Newsletter Issue 5, 2008

JERA 4.1: New submitted pollen data

The European Pollen Database will attend the Bi-Annual meeting of the American Association (AMQUA) in Penn State, Pennsylvania, USA, from June 5th to 7th, 2008. Simon Brewer, leader of the EPD Mapping and data Accuracy group will present the current status and applications of the EPD, in the Quaternary Ice Sheet-Ocean Interactions and Landscape Responses session. Simon Brewer is Paleoclimatologist in the Laboratory of Atmospheric and Planetary Physics at the University of Liege, Belgium.

Two open pollen data have been submitted to the EPD by Elena Ortu, Palynologist in the Chrono- Ecology Laboratory of the University of Franche-Comte, Besancon, France. These

data are located in the Italian side of the south western Alps at St Anna di Vinadio Valley and concern the late Pleniglacial to the Subatlantic period.

EVOLTREE Internal Newsletter Issue 4, 2008

JERA 4.1: New submitted pollen data

Three new French open pollen data have been submitted by Frederic Guiter, Palynologist in the IMEP Research Laboratory (University of Aix-Marseille 3) to the EPD. These data are located in the Eastern Pyrenees (France) and concern the Holocene period.

EVOLTREE Internal Newsletter Issue 3, 2008

JERA 4.1: Meeting and new data submitted to the European Pollen Database (EPD)

The Mediterranean Institute of Ecology and Paleoecology (IMEP) will participate in the 2nd Meeting "Environment, Health, What's new in our province". This meeting organized by several universities of Marseille and local communities will take place in Marseille from the 7th to the 18th April 2008 and will propose many workshops and conferences open to the general public. Jacques-Louis de Beaulieu, Frédéric Guiter and Michelle Leydet will present a training workshop specialized in Palynology (more details on [click here](#)).

Sixty pollen data have been submitted by Lionel Visset from the Research Centre of History, Archaeology and Sciences, University of Nantes, France via Jacques-Louis de Beaulieu (IMEP). One pollen data has been submitted by Petr Kunes. This data is localized in Pisek, Czech Republic.

EVOLTREE Internal Newsletter Issue 2, 2008

JERA 4.1: EPD participation in coming meeting.

The European Pollen Database will take part in the EPD Mapping and Data Accuracy Group meeting in Utrecht, Netherlands, from the 26th to the 27th March 2008.

This group has been created since the last EPD meeting at Aix-en-Provence (IMEP, Arbois) in May 2007 and is composed of Simon Brewer, Walter Finsinger, Thomas Giesecke, Graciela Gil-Romera, Anne Le Flao, Ralph Fyfe, Petr Kunes and Norbert Kühl.

This meeting will discuss the best means to map available data to create paleo-vegetation atlas for potential users.

Two new open pollen data have been submitted to the EPD by Pim van der Knaap Palynologist of the Institute of Plant Sciences, University of Bern, Switzerland. These data come from Scotland and concern the Holocene period.

EVOLTREE Internal Newsletter Issue 1, 2008

JERA 4.1: EPD participation in coming meetings

The European Pollen Database will take part in the EPD Taxonomy Support Group meeting at the Institute of Plant Sciences in Bern, Switzerland, from January 29th to February 1st. This group has been created since the last EPD meeting at Aix-en-Provence (IMEP, Arbois) in May 2007 and is made up of European Palynologists specialized in botany (Steffen Wolters, Marie-Jose Gaillard and Jacqueline van Leeuwen). This meeting will deal with changes of the pollen's nomenclature and the database. This meeting will generate a new taxonomical dictionary to be used by European Palynologists and the database. The EPD will take part also in the Evoltree Annual Meeting from February 4th to 7th, 2008 at Mandelieu-Nice, France.

EVOLTREE Internal Newsletter Issue 6, 2007

Activity JERA 4.1: Incoming Pollen Data

Twelve French pollen data have been submitted to the European Pollen Database. One restricted by Valérie Andrieu-Ponel Palynologist in the IMEP Research Laboratory (University of Aix en Provence) and eleven open data by Yannick Miras Palynologist of the University of Toulouse. All these data come from the Massif Central, France. One British open data has been submitted by Andrew Moss from the University of Birmingham. This data is located nearly Bamburgh (Northumberland) in England.

New link is created with the French Archeological Research Laboratory CEPAM of Sophia-Antipolis (France) to submit pollen data for the EPD.

EVOLTREE Internal Newsletter Issue 5, 2007

Activity JERA 4.1: New maroccan Pollen Data submitted to the EPD

Twenty five Maroccan Pollen Data have been submitted to the European Pollen Database by Dr Maurice Reille Palynologist, Mediterranean Institute of Ecology and Paleoecology (IMEP, CNRS, France) retired via Dr Valérie Andrieu-Ponel Palynologist, IMEP. These data will be checked shortly before to be introduced in the pollen database as restricted data. They come mainly from the Rif Mountain (the northern mountain of Morocco) and concern the Holocene period.

EVOLTREE Internal Newsletter Issue 4, 2007

Activity JERA 4.1: Presentation of the European Pollen database to the French Palynologists

The EPD took part in the 20th APLF Symposium "Warming climates: ecosystems and societies responses" from October 2nd to 4th in Toulouse to present the new European Pollen Database structure to the French palynologists. This symposium gathered a large French and French-speaking palynologists panel which created new links with the EPD. Among them some young palynologists would like to contribute and take part in the EPD activities. New French pollen data of palynologists from Montpellier, Nantes, Toulouse, Clermont-Ferrand and Besançon Universities will grow the data bank.

EVOLTREE Internal Newsletter Issue 3, 2007

Activity JERA 4.1: Upgrading of the European Pollen Data Base

The IMEP (Institut Méditerranéen d'Ecologie et de Paléoécologie) manages the European Pollen Database (EPD) created a dynamic website (<http://www.europeanpollendatabase.net/>) open to palynologists contributions will take part in the AFLP Symposium (October 2007 in Toulouse) to present the new EPD structure will take part in the 12th International Palynological Congress, August 2008 is dealing with new pollen data from Germany, France, Poland, Switzerland, Romania.

A new team in charge of the pollen database was also created (see <http://www.europeanpollendatabase.net/>). Contact: Michelle Leydet, Data Manager, EVOLTREE correspond.