



# LIFE + EnvEurope Final Conference

in conjunction with the

# LTER-Europe Annual Conference

— 26th - 29th November 2013

ROME, National Research Council (CNR)  
P.le Aldo Moro 7  
Room Marconi and Room Convegni

In building a site network for biodiversity and ecosystem research since 2004, LTER-Europe has identified a set of requirements in the field of cross-site workflows, network design, tools for information management, harmonization and standardization. The LIFE+ project EnvEurope has successfully tackled these requirements over the past 4 years (2010-2013). The products of EnvEurope and the approaching Horizon 2020 are the entry point for the next phase in designing the European research infrastructure landscape in the field of biodiversity and ecosystem research.

A key challenge for LTER-Europe, with its highly instrumented observational sites and socio-ecological research platforms, is how best to cooperate and integrate with both large scale monitoring schemes (including remote sensing) and experimental approaches. The interaction with key stakeholders at the joint conference in Rome will form a milestone on this way.

Infrastructure managers and scientific users interested in LTER-Europe and related infrastructures meet in Rome to hear about the science that LTER-Europe helps deliver and to exchange ideas, strengthen interactions, identify development priorities and explore possible collaborative projects.



**Monday 25<sup>th</sup> November**  
14:30 - 18:00

## CNR, Room Marconi EnvEurope Plenary Coordination Meeting (*only internal*)

### 14:30-15:30

- Welcome address (A. Pugnetti, CNR, Italy)
- Presentation of the EnvEurope/LTER-Europe week (A. Pugnetti, CNR, Italy; M. Mirtl, EEA, Austria)
- Action 7 (technical and financial issues): activity report, final steps and general evaluation from Coordination (A. Pugnetti, CNR, Italy; C. Boccafogli and S. Valentini, Aster, Italy)

### 15:30-18:00

#### Activity Report from the Actions: final steps, general evaluation, what is left to LTER-Europe

### 15.30-16.00

- Action 8 - Project Monitoring (K. Krauze, ERCE, Poland)
- Action 6 - Dissemination (D. Sani, Aster, Italy)

16:00-16:15 *Coffee Break*

### 16:15-18:00

- Action 2 - Harmonization (M. Frenzel, UFZ, Germany)
- Action 5 - Testing in the field (G. Matteucci, CNR, Italy)
- Action 1 - Information management (J. Peterseil, EAA, Austria)
- Action 3 - Scientific analysis (M. Adamescu, UniBuc, Romania)
- Action 4 - Network design (A. Campanaro, CFS-CNBF & University of Rome, Italy)

18:00-19:00 *Final Toast*

**Tuesday 26<sup>th</sup> November**  
9:30 - 12:30

## CNR, Room Convegna EnvEurope Final Conference

### Results of EnvEurope and LTER-Europe future challenges

9:30-10:30 *Registration and Welcome Coffee*

### 10:30-11:00 Welcome addresses

- Prof. Luigi Nicolais, President of National Research Council
- Ing. Cesare Patrone, Head of National Forest Service
- Dr. Paolo Bonaretti, Director of Aster
- Dr. Roberto Ghezzi, LIFE ENV Monitoring Team Coordinator, Astrale GEIE-Timesis

### 11:00-11:15

Setting the scene: LTER-Europe as framework for EnvEurope (M. Mirtl, EAA, Austria, Chair of LTER-Europe)

### 11:15-11:20

"Fit for catching ecosystem changes": EnvEurope Video

### 11:20-11:50

Life+ EnvEurope: overview and outcomes in the context of LTER-Europe (A. Pugnetti, CNR-ISMAR, Italy, Coordinator of Life + EnvEurope)

### 11.50-12.05

Crosscut of interlinked work and results of EnvEurope actions (M. Frenzel, UFZ, Germany)

### 12:05-12:30

Taking over from EnvEurope and ExpEER: Status and challenges of LTER as globally networked building block of ecosystem research in the European Research Area (M. Mirtl, EAA, Austria)

12.30-13.30 - *Buffet Lunch at CNR*

**Tuesday 26<sup>th</sup> November**  
13:30 - 18:00

## CNR, Room Convegna Requirements and expectations towards an integrated infrastructure for ecosystem and socio-ecological research in Europe

### 13:30-13:45

LTER-Europe as part of the European contribution to the Global Earth Observing System of Systems (GEOSS/GEOBON) (C. Häuser, EUBON Coordinator, MfN Berlin, Germany)

### 13:45-14:00

Towards an integrated infrastructure for ecosystem and socio-ecological research in Europe to support the EU 2020 Biodiversity Strategy and Mapping and Assessment of Ecosystems and Services (MAES) (A.Teller, EC, DG Environment)

### 14:00-14:15

BioDiversa: Status, requirements and interrelations with LTER-Europe (F. Lemaitre, Biodiversa, France)

### 14:15-14:30

Sister networks: LTER-Europe as infrastructure for biodiversity and ecosystem services research in ALTER-Net (E. Furmann, SYKE, Finland)

### 14:30-14:45

Experimental ecosystem research infrastructures and LTER-Europe: Interfaces and synergies with AnaEE (F. Miglietta, CNR-IBIMET/RIC-FEM, Italy)

### 14:45-15:00

Interactions and synergies between the in-situ infrastructure LTER-Europe and LifeWatch (W. Los, LifeWatch Co-ordinator, UvA, The Netherlands)

### 15:00-15:15

LTER-Europe as user for common European IT infrastructure and services as developed by EUDAT (S. De Witt, EUDAT, STFC, United Kingdom)

### 15:15-15:30

Mutual relevance of long-term ecosystem research and monitoring in forests. The example of forest monitoring in Europe with an overview on North America and Asia (N. Cools, INBO, Belgium).

15:30-16:00 *Coffee Break*

### 16:00-16:15

LTER-Europe as ground truthing information source for COPERNICUS (S. Zlebir, EEA, European Environment Agency, Slovenia)

### 16:15-16:30

European Platform on Biodiversity Research Strategy (EPBRS): Key messages for LTER-Europe as a pan-European research infrastructure for in-situ long-term biodiversity and ecosystem research (Statements by J. Tack, EPBRS, presented by M. Hens, INBO, Belgium)

### 16:30-16:45

The TERENO concept as a design example for highly instrumented LTER across spatial scales (S. Zacharias, TERENO/UFZ, Germany)

### 16:45-18:00

PANEL DISCUSSION

20:00 *Departure for Social Dinner*

CNR, Room Convegna  
Highlights of LTER science outcomes and addressing future  
scientific infrastructure requirements

Site level research

9:00-9:20

Stability and resilience in coastal copepod assemblages: The case of the Mediterranean long-term ecological research at LTER-Italy site MC (Gulf Naples). (M.G. Mazzocchi, Zoological Station A. Dohrn, Italy)

9:20-9:40

Developing concepts about the functioning of coastal ecosystems in a changing world: the unique value of long-term investigations illustrated by the example of the Darss-Zingst Bodden (H. Schubert, Univ. of Rostock, Germany)

9:40-10:00

The Arctic Long-Term Deep Sea Observatory in eastern Fram Strait at 79°N/4°E: An overview and highlights from multidisciplinary research activities (E. Bauerfeind, Alfred-Wegener-Institut, Germany)

10:00-10:20

Effect of catchment characteristics on aquatic carbon export from a boreal catchment and its importance in regional carbon cycling (L. Arvola, Univ. of Helsinki, Finland)

10:20-10:40

Ecological Indicators of long-term changes in air pollution/land-use and modelling the long-term natural regeneration potential of woodlands in a LTER Montado area to guide restoration efforts (C. Branquinho, University of Lisbon, Portugal)

10:40-11:00

System approach of ecological research in the Tatra Mts: investigating the effects of pressures and pulses in the long-term. (P. Fleischer, LTER-Slovakia)

11:00-11:30 *Coffee Break*

11:30-11:50

Interactions of climate, water use and phenology: Findings from the Yattir forest LTER Site in Israel (E. Rotenberg, Weizmann Institute of Science, Israel)

The national scale

11:50-12:20

LTER informing policy - Examples from LTER in the UK: ECN contributions to National Ecosystem Assessments based on findings on biological trends, drivers of environmental change and regional patterns (T. Parr, CEH, UK)

12:20-12:40

Modelling impacts of climate change on ecosystem services at LTER-sites in Finland (M. Forsius, Syke, Finland)

The European scale

12:20-12:40

The Fingerprint of Nitrogen Deposition in European Forests (T. Dirnböck, EAA, Austria)

Considering the social dimension: results from LTSER Platforms

12:40-13:00

How to use multiple LTSER platforms to derive scientific findings for sustainable landscapes (M. Elbakidze, Faculty of Forest Sciences, SLU, Sweden)

13:00-14:00 *Buffet Lunch at CNR*

CNR, Room Convegna  
Highlights of LTER science outcomes and addressing future  
scientific infrastructure requirements

Considering the social dimension: results from LTSER Platforms

14:20-14:40

Site, Network, Platform: Evolution of LTER, Northern Negev, Israel (D. Orenstein, Technion, Israel)

14:00-14:20

Clusters of LTSER platforms as infrastructure for long-term social-ecological research: Bergslagen's experience (R. Axelsson, Faculty of Forest Sciences, SLU, Sweden)

The LTSER concept: place based LTSER and beyond

14:40-15:00

Key note on LTSER: concept, status of the LTSER component of LTER-Europe and outlook towards H2020 (D. Orenstein, Technion, Israel)

15:00-16:00

Group work on main topical fields for LTER-Europe  
(Proposed topics: Consistent baseline measurements as contribution to a European EON; LTSER; Information technology and tools; analysis, synthesis, modelling and policy advice)

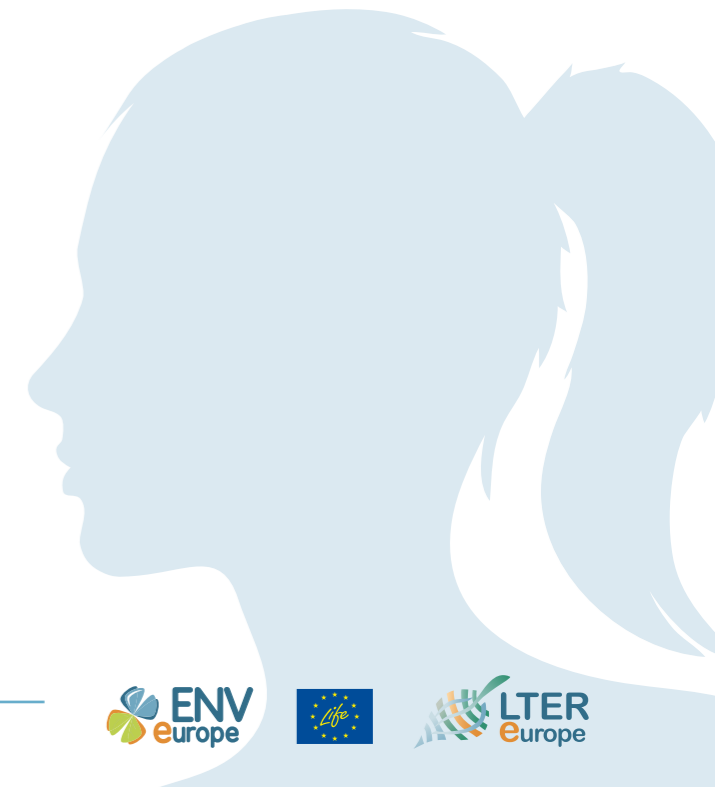
16:00-16:30 *Coffee Break*

16:30-17:00

Group work on main topical fields for LTER-Europe

17:00-17:30

Group reports



CNR, Room Convegni  
**Next stage of LTER built on the cornerstones of EnvEurope**

**Detailed results and products from EnvEurope to LTER-Europe**

**9:00-9:30**

Why, what and how to measure LTER parameters? Tools for harmonized approaches (M. Frenzel, UFZ, Germany)

**9:30-10:00**

Acting as a network: the shared EnvEurope “testing in the fields” LTER activities (G. Matteucci, CNR IBAF, Italy)

Acting as a network: examples of common data elaboration from field activities in LTER aquatic sites (M. Bascietto, CNR IBAF, Italy)

**10:00-10:15**

Long term datasets: lessons learned from the EnvEurope experience (M. Adamescu, UniBuch, Romania)

**EnvEurope scientific case studies**

**10:15-10:30**

Phenological variations in response to climate change in aquatic LTER sites (A. Oggioni, CNR IREA, Italy)

**10:30-10:45**

Tree-ring chronologies in relation to past human and natural disturbances (S. Neagu, ICAS, Romania)

**10:45-11:00**

Nitrogen deposition and vegetation change in LTER sites: testing critical load exceedance (T. Dirnböck, EAA, Austria)

**11:00-11:15**

Temporal patterns of phytoplankton diversity on a European scale (K. Palffy, HAS, Hungary)

*11:15-11:45 Coffee Break*

**Information management**

**11:45-12:00**

EnvEurope DEIMS - a gateway to long-term ecosystem research data in Europe (T. Kliment, CNR IREA, Italy)

**12:00-12:45**

From Data to Services - Evaluation of options (H. Schentz, EAA Austria & A. Oggioni, CNR IREA, Italy)

**12:45-13:00**

EnvThes: Controlled vocabulary for Ecosystem Monitoring (H. Schentz, EAA, Austria)

*13:00-14:00 Buffet Lunch at CNR*

CNR, Room Convegni  
**Next stage of LTER built on the cornerstones of EnvEurope**

**14:00-14:30**

Improving LTER network design: lessons and suggestions from the EnvEurope Life+ project (P. Colangelo, CFS-CNBF & University of Rome, Italy)

**14:30-14:45**

Spatio-temporal assessments of ecosystem functions and services across different LTER Europe sites (S. Stoll, Senckenberg, Germany)

**14:45-15:00**

Terrestrial phenology and remote sensing (A. Campanaro, CFS-CNBF & University of Rome, Italy)

**15:00-15:15**

The Vegetation and Environment New Micro Satellite (VEN $\mu$ S) scientific spaceborne mission (A. Karnieli, Ben-Gurion University, Israel)

**15:15-15:30**

The need for validation of Copernicus Global Land Service Products (F. Camacho, EOLAB, Spain)

**15:30-16:00**

Summarizing Workshop: Homework left and challenges after EnvEurope

*16:00-16:30 Coffee Break*

**16:30-17:30**

Summarizing Workshop: Homework left and challenges after EnvEurope

**In parallel, 16:30-18:30**

Working group LTER marine sites “task force”



**Friday 29<sup>th</sup> November**  
8:30 – 13:00

CNR, Room Marconi

**ILTER-Europe Co-ordinating Committee (only national LTER delegations)**

**08:30-09:15**

Welcome

Adoption of the agenda

Minutes of the 2012 LTER-Europe conference

Overview and news from the 2013 ILTER Conference in Korea (M.Mirtl, EAA, Austria)

**09:15-09:45**

Status of national networks:

- Belgium (M. Hens, INBO, Belgium)

- Norway (R. Vang, NINA, Norway)

- Andorra (t.b.d.)

**09:45-10:30**

Report of the Marine LTER Task Force activities (M.G. Mazzocchi, Zoological Station A. Dohrn, Italy)

Feedback to planned questionnaire on LTER-Europe work and directions (M. Frenzel, UFZ, Germany)

*10:30-11:00 Coffee Break*

**11.00-11:30**

Relations with other RIs (MoC with LifeWatch and MoU with EUDAT)

**11.30-12:30**

Response to H2020 calls: strategic alliances and consortium building

- Infrastructure

- ESS/ Drivers of change (LTSER as science-policy vector)

**12:30-13:00**

Miscellaneous

*13:00-14:00 Buffet Lunch at CNR*

*14:30-18:30*

*A "special trip" to a Rome you never saw before*

**Information:**

[www.enveurope.eu](http://www.enveurope.eu)

[www.lter-europe.net](http://www.lter-europe.net)

