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Action ES0907
INTegrating Ice core, Marine and TErrestrial records (INTIMATE)

ESSEM

Participating countries: AU, CH, DE, DK, ES, FI, FR, GR, IS, LT, NO, NL, PT, SE, UK
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http://cost-es0907.geoenvi.org/

The INTIMATE team in front of Einsteinturm at the Action's first workshop at GFZ, Potsdam, Feb. 7-9 '11.

INTIMATE
Integrating ice core, marine and terrestrial records

The objective of the Action is to reconstruct past abrupt and extreme climate changes across the full range of the European environment over the period 60,000 to 8000 years ago, by facilitating integration of ice core, marine, and terrestrial palaeoclimate records and using the combined data in climate models to better understand the mechanisms and impact of change, thereby reducing the uncertainty of future prediction.

Working Group 1 – Dating and Chronological Modelling

Chairs: Irka Hajda (ETH, Zürich) and Achim Brauer (GFZ, Potsdam)

A reliable chronological framework is the basis of all studies of the past climate. WG1 is dedicated to developing and improving dating methods over the last 60,000 years and bringing scientists together in the effort to integrate the different dating methods applied in palaeoclimate studies so that the diverse set of records can be used within one coherent dating framework.

Working Group 2 – Quantification of Past Climate

Chairs: Anders Svensson (U. Copenhagen) and Ana Moreno (PIE, Zaragoza)

The aim of WG2 is to collect and quantify information of past climate from e.g. ice cores, tree rings, corals, stalagmites, and marine and lake sediments in order to draw a detailed picture of the highly variable climate evolution in the North Atlantic region over the period from 60,000 to 8000 years ago. The period is dominated by significant climatological contrasts; from the highly variable climate of the last glacial and the consistently cold millennia of the Last Glacial Maximum through to dramatic climatic changes at the glacial termination to mild and more stable conditions in the current interglacial, the Holocene.

Working Group 3 – Modelling Mechanisms of Past Change

Chairs: Didier Roche (LSCE, Paris) and Simon Blockley (RHUL, London)

Our ability to forecast the rates and magnitudes of future change is limited by numerical models, which in turn are limited by the lack of data on how past climate has varied and our understanding of the governing mechanisms of past climate change. By using the combined ice core, terrestrial, and marine data sets of WG2 as targets, WG3 will optimize methodologies to evaluate model simulations and make data-model comparisons of key periods or events .

Working Group 4 – Climate Impacts

Chairs: Wim Hoek (U. Utrecht) and Hilary Birks (U. Bergen)

WG4 will synthesise the results and gain insights into the impacts of past climatic changes on animal and human populations and the ecosystems in which they are parts. Organisms and their ecosystems respond to climate changes with local extinctions and population movements as results. Workgroup 4 will quantify the magnitudes and rates of species and ecosystem responses in space and through time.

Objectives:

- Review and analyze the state of the art in climate reconstructions from ice-core, marine, and terrestrial records
- Standardize the tools and methods used in climate reconstruction and development of chronological frameworks
- Integrate pan-European climate reconstructions using common methods within highly-precise chronological frameworks
- Determine the timing, rates of change, spatial variability and climate gradients and ecosystem impacts
- Incorporate reconstructions into climate models to better determine the mechanisms of change
- Facilitate interdisciplinary collaboration and foster close collaboration between early-stage and established researchers

Expected Results:

- Establishment and publication of protocols for dating methods and best practices for correlation between records.
- Synthesis of data of past change across key time periods published for a selection of key European climates and made available to the scientific community as well as to policy makers and e.g. the IPCC.
- Strengthening of existing networks and establishment of a strong pan-European network of early-stage researchers and PhD students and dissemination of key Action results and principles to the next generation of palaeoclimatologists via summer schools and mutual exchange acitivities.
- Ultimately, these goals all contribute to the overarching objective of increasing understanding of past climate and improving projections of future climate conditions.

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ESSEM

Participating countries: BE, DE, DK, ES, FR, GR, IT, IL, IS, LU, NL, PL, PT, SI, SK, TR
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COST Science Officer: Stefan Stückrad, stefan.stueckrad@cost.eu

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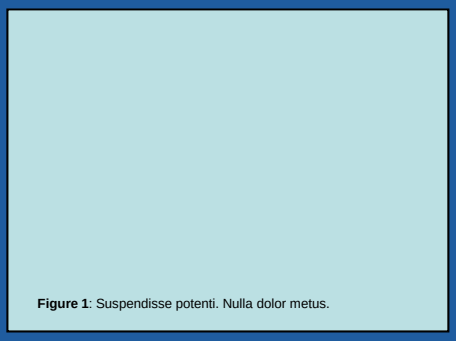

Figure 1: Suspendisse potenti. Nulla dolor metus.

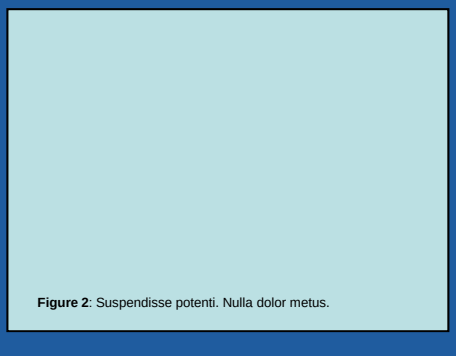

Figure 2: Suspendisse potenti. Nulla dolor metus.

Working Group 1

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Working Group xx

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3. **Web address**. Feel free to enlarge horizontally the little box, so that your address fits in, but try to preserve the font size.

4. **Preserve general balance of the page**. The page is divided in two columns (one of 1/3 and one of 2/3). Try to preserve this disposition, so that there is a visual harmony between all posters.

5. **Create Titles by replacement**. Similarly as for the header, alter the titles (if necessary) by replacing the existing text.

6. **Pictures**. Try to use one or two pictures maximum (preferably one only). Remember the final format of the document is A1, it means 59.4 x 84 cm. It corresponds to 4 times an A4 format... Therefore, you will need to use pictures of high resolution. If you use jpeg format, pictures should preferably be more than 3.5 Mb for one picture; or 1.75 Mb each for two pictures.

7. **Objectives**. Try to fit the text in the space as showed in the template. Play with the font size if necessary.
   Bullets have been used, which in fact are just added circles. Copy/paste them for your presentation, rather than using Powerpoint automatic bullet system.

8. **Main achievements**. Same comment. Try to write your main achievements in 3 to 5 elements.

9. **Working Groups**. Feel free to play with the size of the background box, and the font size so that your text fits in.