

What is the NordForsk Network LandClim?

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Linneuniversitetet



norden

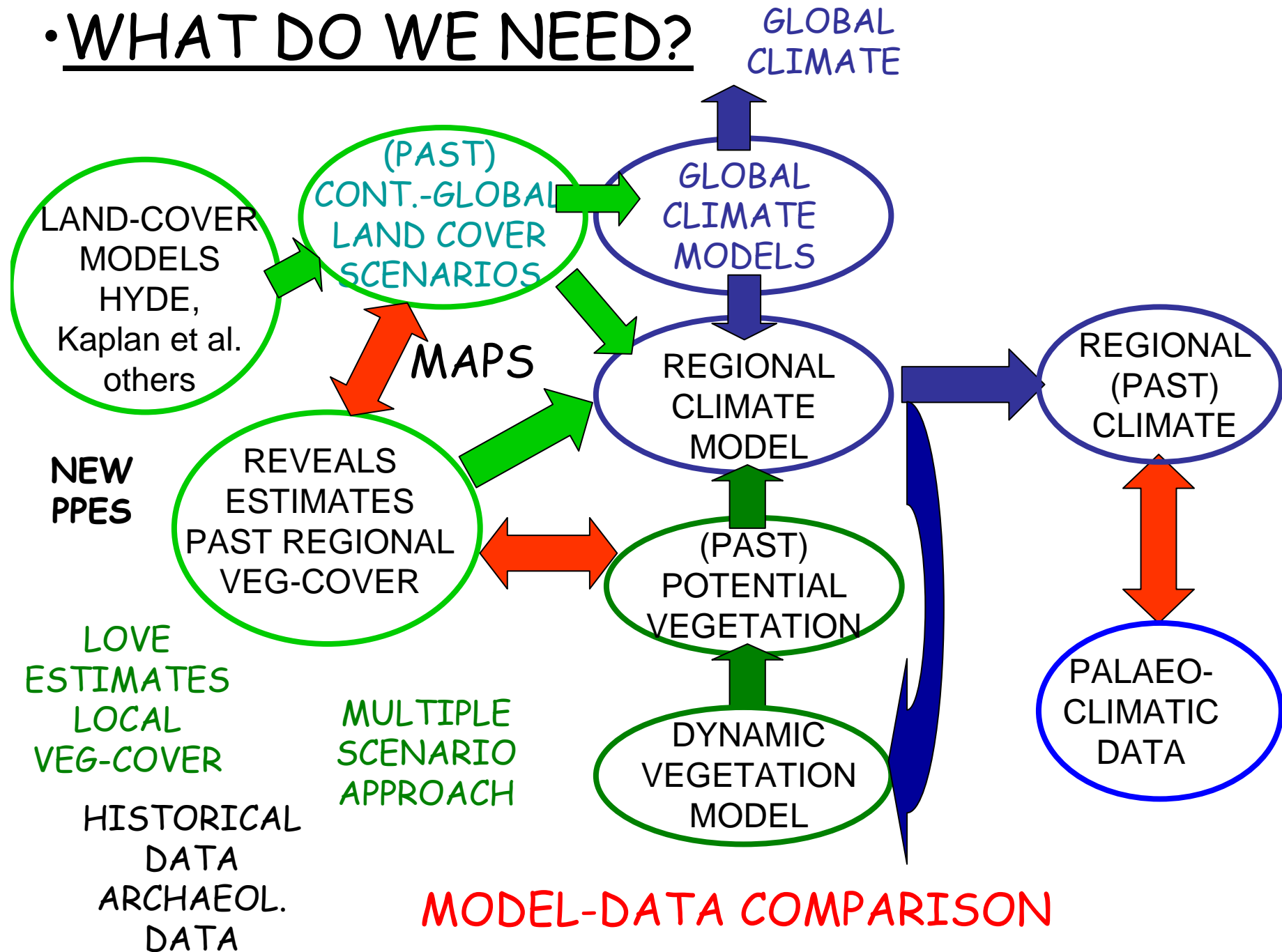
NordForsk



LAND COVER-CLIMATE FEEDBACKS

COLLABORATION between modellers
(vegetation, land-cover, climate)
and palaeoecologists/historians

WHAT DO WE NEED?



NordForsk LANDCLIM network and VR LANDCLIM- what's the difference?

VR LANDCLIM

- NW Europe; W Europe N of the Alps
- Vegetation and Climate models:
 - Swedish groups
 - Regional climate model
- REVEALS estimates: main responsables
 - Trondman, Nielsen, Mazier, Fyfe, Marquer
- Collaboration with NW, W European palynol
- strict model-data comparison scheme
- 3 time windows 6000, 200, 0 BP
- LAND-COVER/CLIMATE feedbacks

LUCCI – Lund Univ. Anna Broström's subproject 2 more time windows
MERGE - Modelling the regional and global Earth System – Swedish project 2010-2014

- Sweden, Europe, the world
- Vegetation and Climate models
- LAND-COVER/CLIMATE feedbacks
- As many time windows as possible
- Postdoc Laurent Marquer

NORDFORSK LANDCLIM

- + other regions (Europe, world)
- + other European modellers
 - Global climate models
 - Global land-cover models
- REVEALS estimates:
 - + other groups/collaborators
- + any interested group/colleague
- LAND-COVER/CLIMATE feedbacks
- any related research question
- + any other time window of interest
 - + Holocene trajectories
- LOVE estimates
- MSA reconstructions
- Training
- Platform for discussion etc...

IGBP –PAGES-FOCUS 4 (PHAROS)
Coordinator John Dearing

Products of LANDCLIM: past land-cover data for climate modelling + others

- In progress: Swedish VR project (2009-2011)
 - Maps (grid cell $1^\circ \times 1^\circ$) of major taxa and groups of taxa for selected time windows ("first product" finished)
 - Developments in progress
 - Comparison/integration with Kaplan's maps and other land-cover reconstructions
- Other possible land-cover/vegetation products:
 - Maps of Holocene trajectories
 - Maps of species/taxa composition
 - Etc... etc....
- Studies of land cover-climate feedbacks at regional/continental and global scales; effects of human-induced land-cover change

NordForsk network LANDCLIM

Core group members

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Dates of events

Meetings and Workshops 2009-2011 and Conference 2011

- 2009 RIGA: Core group meeting, January
- 2009 KALMAR (MJ Gaillard et al.) Workshop 1 - Kick-off - major theme: land cover-climate feedbacks
- 2009 TALLINN (S Sugita et al.) Workshop 2 - major theme: REVEALS and LRA
- 2010 LUND (Ben Smith et al.) Workshop 4 - major theme: vegetation models
- 2011 Norrköping (Erik Kjellström et al.) Workshop 5 - major theme: climate modelling
- 2011 RIGA (Laimdota Kalnina) (planned originally for April 2009) Workshop 3 - major themes: interpolation of point data (maps), historical data, other methods for quantitative vegetation/landscape reconstruction inferred from pollen: May 16th-19th
- 2011 Conference Helsinki? If we can get additional support 1 day training course and 2-4 days in November
- Application ESF Conference 2010 for 2012: still pending

Dissemination 1

- PAGES OSM Corvallis July 2009
 - 1 invited lecture (MJ Gaillard): review of past land-cover reconstructions and first presentation of the LANDCLIM project and network
 - 1 invited article: Gaillard et al. Clim. Past 6, 483-499
- **EGU Vienna May 2-7th 2010**
 - 1 lecture (MJ Gaillard) and 2 posters (A-K Trondman and F Mazier) presenting the Swedish VR-LANDCLIM project and mentioning the NordForsk network + first results
 - 1 lecture on LRA and Love reconstructions of local vegetation (NordForsk network) (Q Cui)

Dissemination 2

- EGU Vienna 2011 April 3-8 ?
- INQUA Bern 2011 July 20-27: several presentations from Kalmar and Lund + others
- IPC 2012, Japan; MJG will submit a session proposal

RELATED MEETINGS/PROJECTS

- Africa/Cameroon (A.-M. Lezine: new PPEs) – workshop in Brussels, Jan. 2011 (MJ Gaillard involved)
- University of Lausanne, collaboration with Jed Kaplan, Jan. 2011 (MJG involved)
- India/PAGES-Focus 4 meeting, Jan. 2011-collaboration plans; new PPEs (Shinya Sugita, Florence Mazier, MJ Gaillard)
- China: workshop April 2011; collaboration plans, new PPEs (Jane Bunting, Anne-B. Nielsen, MJ Gaillard, Laurent Marquer)
- Australia: planed collaboration S Sugita/S Heberle