

Palaeozoic Climates
International Congress – *Congrès international*
August 22-31, 2008, Lille, France

THIRD CIRCULAR – *Troisième circulaire*
Programme

Climate change is currently one of the most debated and discussed scientific topics. Ancient climate changes are extremely useful to understand the global changes that we live today.

The **Scientific Congress on Palaeozoic Climates** is focused on ancient climate and sea-level changes (Ordovician glaciation, end-Devonian extinction, Late Palaeozoic glaciation, greenhouse-icehouse transitions), including climate modelling, and the understanding and the impact of climate change on Palaeozoic biodiversity. The Palaeozoic Climate congress will bring together some **120 scientists** from all parts of the world, presenting their results in over **90 scientific contributions** (12 keynote talks, about 50 oral presentations and about 30 posters).

The Congress will be held from Monday, August 25th, to Friday, August 29th, with pre- and post-congress excursions on August 23rd-24st and August 30th-31st. The congress will serve as Closing Meeting of the **International Geoscience Programme (IGCP) n° 503 ‘*Ordovician Palaeogeography and Palaeoclimate*’,** and it is also an event of the **International Year of Planet Earth**, aiming at contributing to the scientific topic: *Earth & Life – the origins of diversity and Climate Change*.

Organizing institutions - *Institutions organisatrices*

UMR 8157 *Géosystèmes* Lille1 - CNRS
Université Catholique de Lille (UCL)
Institut Supérieur d’Agriculture (ISA)
Faculté Libre des Sciences et Technologies
Université de Lille 1
Centre National de la Recherche Scientifique (CNRS)
Conseil Régional du Nord – Pas-de-Calais
The Palaeontological Association
Association Paléontologique Française (APF)
Société Géologique du Nord (SGN)
Groupe Français du Paléozoïque (GFP)
International Geoscience Programme n° 503 *Ordovician Palaeogeography and Palaeoclimate*

Organizers - *Organisateurs*

Thomas Servais (USTL, CNRS), chair
Björn Kröger (USTL), secretary

Alain Blicck (USTL, CNRS)
Benoit L.M. Hubert (UCL)
Bruno Mistiaen (UCL)
Nicolas Tribouvillard (USTL)
Marco Vecoli (USTL, CNRS)
Jacques Verniers (Univ. Gent, Belgium)

Scientific committee - *Comité scientifique*

Michael Bassett, Cardiff (*The Palaeontological Association*)
Taniel Danelian, Paris (*Association Paléontologique Française, APF*)
David T. Harper, Copenhagen (*Subcommission Ordovician Stratigraphy*)
Alain-Yves Huc, Paris (*Fédération Française de Géologie, FFG*)
John Marshall, Southampton (*Subcommission Devonian Stratigraphy*)
Shanchi Peng, Nanjing (*Subcommission Cambrian Stratigraphy*)
Christian Ravenne, Paris (*Société Géologique de France, SGF*)
Francis Robaszynski, Mons (*Société Géologique du Nord, SGN*)
Michael J. Melchin, Antigonish (*Subcommission Silurian Stratigraphy*)
Denis Vaslet, Orléans (*Comité National Français pour l'Année Internationale de la Planète Terre*)

Venue - *Lieu de la réunion*

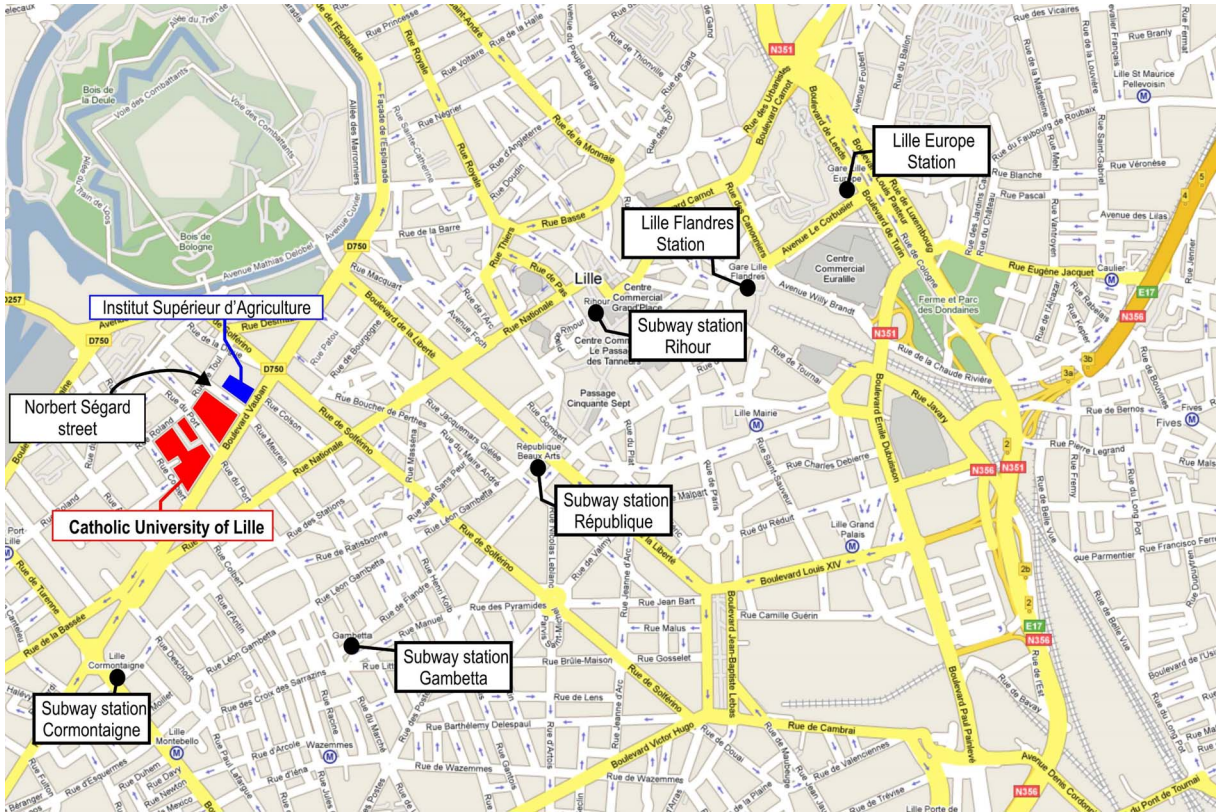
The meeting will take place in the city centre of Lille, scientific sessions will be organized at the Catholic University of Lille in the *Institut Supérieur d'Agriculture (ISA)* buildings.



Transport and Arrival Information – *Transport et informations d'arrivée*

You can reach Lille, in northern France, by car, train or air. The most convenient way to come to Lille is by train. **Lille** can easily be reached from **London** (*Eurostar* trains leaving from *London St. Pancras* need about 90 minutes to arrive at *Lille Europe* railway station, see map below), **Paris** (*TGV* high speed trains leaving from *Paris Nord* or *Paris Charles de Gaulle Airport* need about 60 minutes to arrive at *Lille Europe* or *Lille Flandres* railway stations) and **Brussels** (about 45 minutes between *Brussels-Midi / Brussel-Zuid* railway station and *Lille Europe* railway station). If you arrive at *Lille Europe* or *Lille Flandres*, you can take the metro (subway), or just walk to your hotel or the conference venue.

The campus site of the *Université Catholique de Lille* in the city of Lille can be reached easily (see map below). It is in walking distance from the historical part of the city (10 minutes) and from the railway stations of *Lille Flandres* and *Lille Europe* (20 minutes). Buses “*la Citadine*” and “*ligne 14B*” are also available and stop in front of the University which is about 5 minutes in walking distance. The metro stations *Port de Lille*, *Cormontaigne*, *Gambetta* and *République* are about 10 minutes in walking distance from the conference venue. Metro tickets cost 1.50 Euro, but most participants will probably simply walk around in town.



Map of the city centre of Lille with the location of the *Institut Supérieur d'Agriculture*, the two main railway stations (*Lille Flandres* and *Lille Europe*) and the metro (subway) stations mentioned in this circular.



Metro (subway) stations map of Lille. There are two metro lines (1 and 2). Paper copies of this map are available at the railway stations.

Palaeozoic Climates : August 22nd – 31st, 2008
Lille, France

General Programme

Friday, August 22nd

Meeting of pre-congress excursion participants

Meeting point : Brasserie "*Les Trois Brasseurs*" (opposite of the railway station "*Lille Flandres*"), starting at 19h00

Saturday, August 23rd

PRE-CONGRESS EXCURSION. Departure at 8h15

Meeting point : Bus parking at the Metro station "*Rihour*"

Sunday, August 24th

PRE-CONGRESS EXCURSION. Return to Lille at about 18h00

Registration of the Congress: starts at 17h00, "*Institut Supérieur d'Agriculture*"

Ice-breaker party: starts at 19h00, "*Institut Supérieur d'Agriculture*"

Monday, August 25th

Scientific Sessions. Day 1

IGCP 503 - LOWER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Tuesday, August 26th

Scientific Sessions. Day 2

IGCP 503 - LOWER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Wednesday, August 27th

Plenary Session - PALAEOZOIC CLIMATES

Tournai tour and Conference Dinner. Departure at 17h30

Thursday, August 28th

Scientific Sessions. Day 3

UPPER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Friday, August 29th

Scientific Sessions. Day 4

UPPER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Guided pedestrian tour through Lille at 14h30

Saturday, August 30st

POST-CONGRESS EXCURSION. Departure at 8h00

Meeting point : Bus parking at the Metro station "*Rihour*"

Sunday, August 31st

POST-CONGRESS EXCURSION. Return at Lille at about 19h00

Registration - *Inscription*

Registration starts on Sunday, August 24th, at 5 pm (17h00). The registration desk in the entrance hall of the *Institut Supérieur d'Agriculture* will be open during the entire week of the congress. Late registration is still possible (see below).

Talks and posters - *Présentations orales et affichées*

Talks will be included during the five days of the conference and each will last **20 minutes** (including five minutes of discussion), except keynote talks (45 minutes including discussion). The preliminary schedule of talks is provided below. Please, check whether the title and the speaker (in capital letters in the programme) are correct.

All talks must be prepared for Microsoft Powerpoint (ppt) or Adobe Acrobat (pdf) format. Please copy your presentation files at the registration desk the day before your talk is scheduled and check that your file is working.

Posters should be of standard DIN A0 or A1 size, portrait. Poster panels will be made available. All posters should be displayed during the five days of the scientific sessions. Authors of poster presentations are invited to hang up the posters either on Sunday evening after registration (August 24th) or Monday morning (August 25th). Please, check if the title and the authors of your poster presentation are correct.

Excursions

Two geological excursions are organized. Weather in northern France and southern Belgium at the end of August can be unpredictable, with a wide spectrum from sunny weather to possible heavy rain. Temperatures should be between 15 and 25°C. The excursion fee includes accommodation (1 night), all meals (two lunches, one dinner, one breakfast), transport, field-guides and field-guide booklet.

The pre-conference excursion (Excursion A), taking place Saturday, August 23rd, and Sunday, August 24th, will focus on the Lower Palaeozoic of Belgium, including the Brabant Massif and the Condroz Inlier, including stops at Tihange, Neuville-sous-Huy, Faulx-les-Tombes, Dave and Mont-Saint-Guibert, Abbaye de Villers, Fauquez, Ronquières and others. Participants of the pre-conference excursion are invited to meet in the brewery house "*Les Trois Brasseurs*", place de la Gare (opposite *Lille Flandres* railway station) in the evening before departure (Friday, August 22nd, after 7 pm). The excursion bus will leave from the bus station at the subway station *Rihour* (Lille city centre) at 8.15 am on Saturday morning, August 23rd. Lunches and dinner are organized. Accommodation is organized at Namur, Belgium. Return will be around 6 pm on Sunday, August 24th.

The post-conference excursion (Excursion B), taking place Saturday, August 30th, and Sunday, August 31st, will focus on the Upper Palaeozoic of northern France and Belgium, including stops at Frasnes, Couvin, Givet, Dinant and others. The excursion bus will leave from the bus station at the subway station *Rihour* (Lille city centre) at 8.00 am on Saturday morning, August 30th. Lunches and dinner are organized. Accommodation is organized at Givet, France. Return will be around 7 pm on Sunday, August 31st. Please, book an additional night in your hotel if you leave Lille on September 1st.

Social events

Friday, August 22nd: **welcoming party** for all participants of Excursion A: brewery house "*Les Trois Brasseurs*", place de la Gare (opposite Lille Flandres railway station)

Sunday, August 24th: **icebreaker party**, *Institut Supérieur d'Agriculture*, starting at 7 pm.

Wednesday, August 27th: **Conference Dinner** in Tournai, Belgium. The bus will leave at about 5.30 pm.

Detailed information will be provided during the congress

Friday, August 29th: **guided pedestrian tour to *Vieux Lille*** (historical part of Lille). Please, drop a note to thomas.servais@univ-lille1.fr if you are interested in the guided walking tour of Friday afternoon. This pedestrian tour should take about 2 hours.

Meals - Repas

During the excursions, all meals are organized. During the conference, lunches are organized for those who booked (tickets will be available in your conference package), but evening dinners are not arranged. If you did not book for lunches, there are several places to eat near the conference venue.

A conference dinner is organized on the evening of Wednesday, August 27th. The conference dinner includes a visit of the historical city centre of Tournai, type locality of the Tournaisian limestone of the Lower Carboniferous. The evening includes transport to Tournai, a guided tour through the historical part of the town, and the conference dinner. If you did not book the conference dinner but still wish to do so, you can inform Thomas.servais@univ-lille1.fr until August 1st to register.

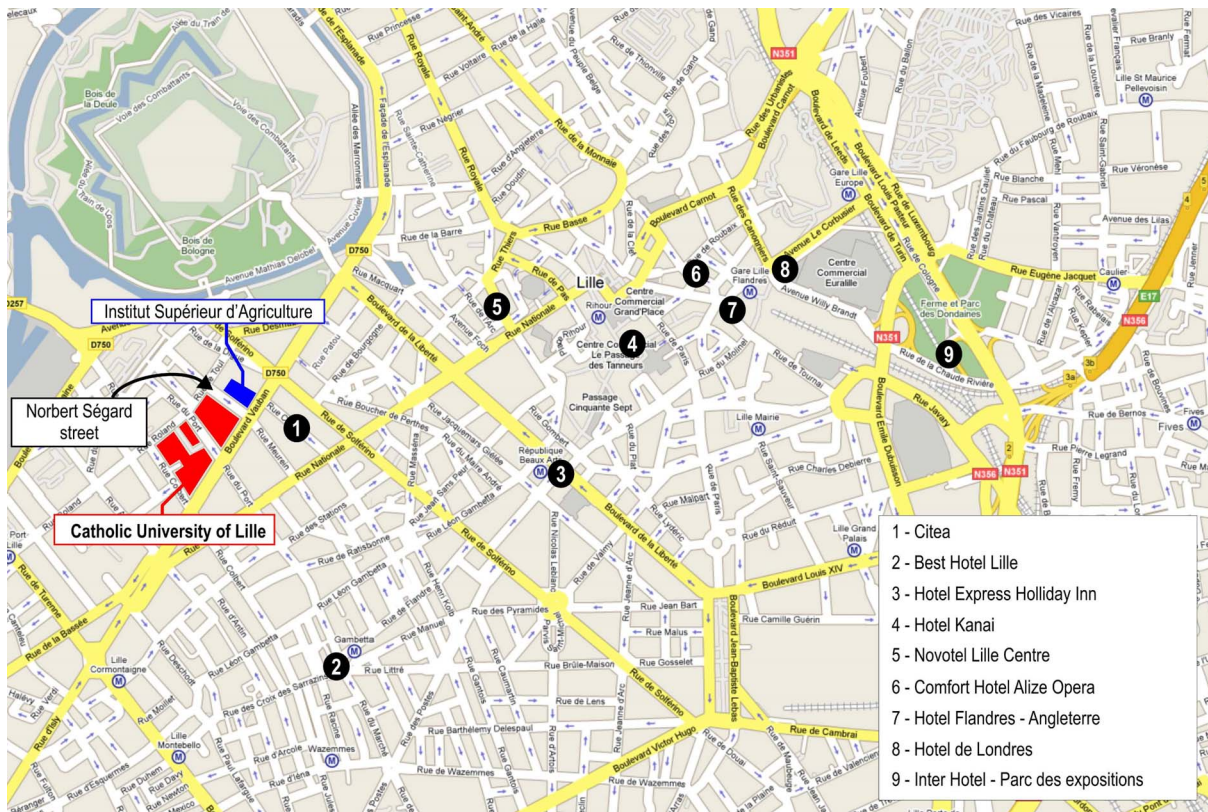
Accommodation - Logement

Accommodation is not organized and should be arranged individually. There is a wide range of hotels in and around Lille (some of them in the historical city centre of Lille). You can book a hotel in the city centre of Lille from which you can easily walk to the campus site of the *Université Catholique de Lille*. Rooms (standard rooms with single and double occupancy usually range from 40 to 80 Euro).

Below you find a list of hotels in the surroundings of the campus, including their ranking (2 to 3 stars), their address and approximate price for a room. Please, note that breakfast is usually not included. Most hotels accept bookings via internet. The closest hotel to the conference venue is the Citea hotel (less than 5 minutes walk).

N°	Hotels	Comfort	Location	€
1	Citea	**	17, Rue Colson 59800 Lille	60 € – 80 €
2	Best Hotel Lille	**	66, rue Littré 59000 Lille	57 €
3	Hotel express Holliday inn	***	75 Bis Rue L. Gambetta 59000 Lille	95 € – 105 €
4	Kanai	**	10 Rue De Béthune 59000 Lille	75 € – 95 €
5	Novotel Lille Centre	***	Rue de L'hospital Militaire 59000 Lille	165 €
6	Comfort Hotel Alize Opera	**	28 rue Anatole France 59800 Lille	90 €
7	Hotel Flandres-Angleterre	**	13 Place de La Gare 59000 Lille	60 € – 70 €
8	Hotel de Londres	**	16 Place de La Gare 59000 Lille	55 € – 65 €
9	Inter Hotel – parc des expositions	**	53-57 rue C. Colomb 59800 Lille	47 €

A map with the location of these hotels is provided below. Many other hotels are available, including several IBIS hotels. You can easily find further hotels on the world wide web.



Location of some hotels in the surroundings of the conference venue. The *Institut Supérieur d'Agriculture*, where the scientific sessions take place is marked in blue.

Web page of the congress - *Page Web du congrès*

The following webpage will be continuously updated.

<http://www.univ-lille1.fr/geosciences/>

All available information will also be available at and can be downloaded from:

<http://sarv.gi.ee/igcp503/>

Late Registration

Late registration is still possible. Registration for the excursion and lunches are closed, however. The late registration fee of 150 Euro includes participation at the scientific sessions, icebreaker reception, and all coffee and tea breaks, and conference documents, including the abstract book. Please send your late registration to:

Thomas Servais

Fax: (+33) (0)3 20 43 69 00

e-mail: Thomas.Servais@univ-lille1.fr

Payments must arrive by international bank transfer on the following bank account. Cheques are not accepted (except for French participants). Credit card payment is not possible. Transfer costs must be covered by the participants.

Bank: La Poste (France)

Bank Address: La Banque Postale – Centre de Lille

Bank account holder: Société Géologique du Nord

Account number: 20041 / 01005 / 0005247Y026 70

IBAN (international account code) : FR89 2004 1010 0500 0524 7Y02 670

BIC (International Bank Code) : PSSTFRPPLIL

**Palaeozoic Climates : August 22nd – 31st, 2008
Lille, France**

Scientific Programme - August 25th-29th, 2008

Monday, August 25th

Scientific Sessions. Day 1

IGCP 503 : LOWER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Session 1 : Cambrian-Ordovician Palaeogeography and Palaeoclimate – Part I

(Convener : M. Bassett)

9h00-9h15 **Opening of the congress**

9h15-10h00 **Keynote : COCKS, M. & Torsvik, T.H.**

Ordovician and Silurian geography

10h00-10h20 ALVARO, J.J., Ezzouhairi, H., Ait Ayad, N., Charif, A., Popov, L. & Ribeiro, L.

Short-lived episodes of carbonate productivity associated with the effusion of submarine lava flows in the middle Cambrian of the Coastal Meseta, Morocco

10h20-10h40

SINGH, B.P.

Palaeogeography and paleoecology of the Cambrian fauna, Zaskar Basin, Northwest Himalaya, India

10h40-11h10 **Coffee and posters**

Session 2 : Cambrian-Ordovician Palaeogeography and Palaeoclimate – Part II

(Convener : J.J. Alvaro)

11h10-11h30 DEBRENNE, F., Zhuravlev, Y.A. & Kruse, P.D.

Palaeobiogeography of Early Cambrian Archaeocyaths

11h30-11h50

GANDIN, A. & Debrenne, F.

Cool- to warm- water conditions for Early Cambrian reefs?

11h50-12h10

DRONOV, A.V., Kanygin, A.V., Gonta, T.V. & Timokhin, A.V.

Ordovician depositional sequences of the Siberian Craton

12h10-12h30

KERSHAW, S.

Microbialites and climate change: Perspectives from the Palaeozoic

12h30-14h00 **Lunch**

Session 3 : The Ordovician biodiversification and its driving factors – Part I

(Convener : A.W. Owen)

14h00-14h45 **Keynote : HARPER, D.A.T.**

The Great Ordovician Biodiversification Event (GOBE):

From anoxia to impacts, islands and new trophic structures

14h45-15h05

KRÖGER, B. & Zhang Yunbai

Pulsed diversification of Ordovician cephalopods

15h05-15h25

ROZHNOV, S.

Effect of climatic and geographical changes on the development of echinoderms in the Ordovician Baltic Basin

15h25-15h45

LEFEBVRE, B.

Impact of the sea water temperature on the palaeobiogeographic distribution of Ordovician echinoderms

15h45-16h15 **Tea and posters**

Session 4 : The Ordovician biodiversification and its driving factors – Part II
(Convener : J.O. Ebbestad)

- 16h15-16h35 NARDIN, E., & Lefebvre, B.
Palaeogeographic control on the diversity fluctuations of blastozoans (Echinodermata, Early Palaeozoic)
- 16h35-16h55 MOLYNEUX, S.G.
Was Ordovician acritarch (microphytoplankton) biodiversity influenced by changes in sea level, or not?
- 16h55-17h15 REYES-ABRIL, J., Villas, E., Jiménez-Sánchez, A. & Gutiérrez-Marco, J.C.
The distribution of rhynchonelliformean brachiopods and the palaeogeography of western Gondwana during the mid and late Darriwillian (Middle Ordovician).

Session 5 : Ordovician and Silurian geochemistry and climate
(Convener : D. Kaljo)

- 17h15-17h35 PARIS, F. Videt, B. Ghienne, J.F., Peng Tang & de la Puente, S.
Factors susceptible to alter the original $\delta^{13}C_{org}$ signal in Early Palaeozoic marine sediments
- 17h35-17h55 AINSAAR, L., Kaljo, D., Martma, T., Meidla, T., Männik, P., Nõlvak, J. & Tinn, O.
Middle and Upper Ordovician carbon isotope stratigraphy in Baltoscandia: Towards a regional chemostratigraphic standard
- 17h55-18h15 LEHNERT, O., Männik, P., Joachimski M.M. & Buggisch, W.
Palaeoclimate perturbations before the early Sheinwoodian glaciation: A trigger for extinctions during the Ireviken Event?

18h30-19h15 Business Meeting International Geoscience Programme n°503
Ordovician Palaeogeography and Palaeoclimate

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Tuesday, August 26th

Scientific Sessions. Day 2

IGCP 503 : LOWER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Session 6 : Ordovician Palaeoclimate
(Convener : F. Paris)

- 9h15-10h00 **Keynote : GHIENNE, J.-F.** (with contributions of Loi, A., Paris, F. & Rubino, J.-L.)
The Late Ordovician glacial record
- 10h00-10h20 Su, Wenbo, Li, Zhi-ming & Baum, G.R.
Crinoids-like pelmatozoans holdfast-holding hardground in the Ordovician Baota (Pagoda) Formation of Yangtze Platform, South China: Constraints on its depositional environment reconstruction and sea-level change
- 10h20-10h40 Keller, M. & Lehnert, O.
Ordovician Palaeokarst, quartz sand, and climate

10h40-11h10 Coffee and posters

Session 7 : Late Ordovician Palaeoclimate
(Convener : T. Meidla)

- 11h10-11h30 CHERNS, L., Wheelley, J.R. & Popov, L.E.
Early Palaeozoic cooling events: Evidence and periodicity
- 11h30-11h50 WHEELLEY, J.R. & Cherno, L.

- 11h50-12h10 *Revisiting "the Ordovician climate based on the study of carbonate rocks"*
KALJO, D., Hints, L., Männik, P. & Nölvak, J.
- 12h10-12h30 *Succession of Hirnantian events based on data from Baltica:
brachiopods, chitinozoans, conodonts and carbon isotopes*
DESROCHERS, A., Farley, C., Achab, A. & Asselin, E.
*A high-resolution stratigraphic model to resolve the longstanding issues relative to
the correlation and interpretation of the O/S boundary on Anticosti Island*

12h30-14h00 Lunch

**Session 8 : Ordovician-Silurian palaeoenvironments
(Convener : M. Vecoli)**

- 14h00-14h45 **Keynote : M. CALNER**
*Silurian global events:
A review of the associated changes in shallow-marine benthic ecosystems*
- 14h45-15h05 SHEEHAN, P.M.
*Anomalous paleozoogeographic patterns of Hirnantian and Early Silurian
brachiopods in western Laurentia*
- 15h05-15h25 ACHAB, A., Asselin, E., Desrochers, A. & Farley, C.
*Revisiting the Upper Ordovician chitinozoan assemblages from Anticosti Island :
implication for local, regional and global correlations.*
- 15h25-15h45 DELABROYE, A., Vecoli, M. Munnecke, A. Nölvak J. & Pouille L.
*Disruption into the palaeophytoplankton realm across the Ordovician-Silurian
boundary: timing and scenario*

15h45-16h15 Tea and posters

**Session 9 : The Silurian world
(Convener : M. Calner)**

- 16h15-16h35 CRAMER, B. D., Loydell, D. K., Munnecke, A., Kaljo, D., Männik, P., Martma, T.,
Jeppsson, L., Kleffner M.A., Johnson C.A., Emsbo P. & Saltzman, M.R.
*Bringing the Lower Paleozoic into the 21st Century: A case study of methods,
objectives, pitfalls, and potential of high-resolution (<500,000yrs) integrated global
chronostratigraphic correlation in the Silurian*
- 16h35-16h55 PERRIER, V., Vannier, J. & Siveter, D.J.
Are there pelagic ostracods in the Silurian?
- 16h55-17h15 MEYERS, S.R., Cramer, B.D., Jeppsson, L., Corfield, R.J., Siveter, D.J. & Munnecke,
A.
Towards the establishment of a Silurian astrochronology
- 17h15-17h35 FAN Junxuan, Chen Xu, Melchin M.J., & Fang Yi-Ting
*Graptolite recovery after the Late Ordovician Extinction –
with data from South China*
- 17h35-17h55 DESROCHERS, A., James, N.P., Ausich, W., & Kershaw, S.
*Multi-order glacio-eustatic fluctuations recorded in Lower Silurian tropical
carbonate ramp deposits, Anticosti Island, Quebec, Canada*

18h15-19h00 Assemblée Générale – Groupe Français du Paléozoïque

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Wednesday, August 27th

Plenary Session

PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Morning session

(Convener : T. Servais)

- 9h15-9h45** **Opening and Welcome**
- 9h45-10h30 **Keynote : GODDERIS, Y., Donnadieu, Y., Le Hir, G., Pierrehumbert, R. & Dromart, G.**
Climate history of the Phanerozoic in response to continental drift
- 10h30-11h00** **Coffee and posters**
- 11h00-11h45 **Keynote : SALTZMAN, M.R.**
Marine carbon cycle evolution during the Palaeozoic
- 11h45-12h05 VANDENBROUCKE, T.R.A., Armstrong, H.A., Williams, M., Wood, B., Zalasiewicz, J.A., Nölvak, J., Sabbe, K., Paris, F. & Verniers, J.
Ground truthing Ordovician climate models using spatial analyses of chitinozoans and graptolites
- 12h05-12h25 LEFEBVRE, V., Servais, T. & François, L.
Is a global volcanic event responsible of the Late Ordovician glaciation? A global carbon cycle modeling approach
- 12h25-12h30** **Group photograph**
- 12h30-14h00** **Lunch**
- Afternoon session**
(Convener : A. Blieck)
- 14h00-14h45 **Keynote : JOACHIMSKI, M.M.**
Late Palaeozoic climate history: Insights from Carbon and Oxygen isoptopes
- 14h45-15h05 ZIGAITE, Z., Joachimski, M.M. & Lehnert, O.
 $\delta^{18}O$ composition from conodont apatite indicates climatic cooling during the Middle Pridoli sea level fall in the Baltic Basin
- 15h05-15h25 VIDET, B., Rubino, J.-L., Guillocheau, F., Robin, C., Boumendjel, K. & Paris, F.
Silurian sea level fluctuations on northern Gondwana
- 15h25-15h45 LODOLA, D., Kemp, D. & Simmons, M.D.
Links between sea-level and palaeoclimate in the Palaeozoic
- 15h45-16h15** **Tea and posters**
- 16h15-17h00 **Keynote : MILLER, A.I.**
The secular decline of epicontinental seas through the Phanerozoic: Implications for marine diversification and extinction
- 17h30** **Departure for Tournai visit and conference dinner**

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Thursday, August 28th

Scientific Sessions. Day 3

UPPER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Session 10 : The terrestrialisation process : the invasion of the land

(Convener : J. Marshall)

- 9h15-10h00 **Keynote : WELLMAN, C.H.**
*Origin and early diversification of land plants:
Effects on the environment and climate of planet Earth*
- 10h00-10h20 VECOLI, M., Cesari, C., Spina, A., Riboulleau, A. & Versteegh, G.
*Documenting carbon isotope excursions and associated palaeoenvironmental changes
in the Silurian of North Africa (peri-Gondwana): a coupled geochemical-
palynological approach*
- 10h20-10h40 Vecoli, M. & SPINA, A.
*Silurian-Devonian palynology of MG-1 borehole section in the Ghadamis Basin,
North Africa: implications for the early evolution of vegetation cover in Gondwana*
- 10h40-11h10 Coffee and posters**

Session 11 : Devonian Palaeoclimate Evolution

(Convener : O. Averbuch)

- 11h10-11h30 RIQUIER, L., Averbuch, O., Lefebvre, V. & Tribouvillard, N.
*Environmental changes and climatic perturbations at the Frasnian-Famennian
boundary*
- 11h30-11h50 LE HOUËDEC, S., Balter, V., & Girard, C.
*New geochemical data (Sr/Ca, $\delta^{18}O$) from conodonts in favour of a glaciation during
the Frasnian-Famennian crisis*
- 11h50-12h10 LEFEBVRE, V., Averbuch, O., François, L., Riquier, L. & Tribouvillard, N.
*Global carbon cycle and climate modelling in the Late Devonian times:
impact of Eovariscan mountain building and related Protothetys isolation*
- 12h10-12h30 MARSHALL, J.E.A. & Astin, T.R.
*What the terrestrial Upper Famennian tells us about Palaeozoic palaeoclimate
change*

12h30-14h00 Lunch

Session 12 : Devonian biotas – Part I

(Convener : B. Mistiaen)

- 14h00-14h45 **Keynote : KLUG, C., Kröger, B. Kiessling, W., Mullins, G.L., Servais, T., Frýda,
J., Korn, D. & Turner, S.**
The Devonian ecological revolution, an underrated radiation
- 14h45-15h05 DUPRET, V. & Zhu Min
*Palaeogeographic proximity between South China and Eastern Gondwana during the
Early Devonian : the early vertebrate data*
- 15h05-15h25 MABILLE, C., Hubert, B.L.M., da Silva A.-C., Poulain G. & Boulvain F.
*Ramp to platform evolution controlled by sea-level variations:
the case of the Lower Givetian in Belgium*
- 15h25-15h45 Mottequin B. & POTY, E.
*Sea level changes and brachiopods and coral extinctions during the late Frasnian in
the Namur-Dinant Basin (Belgium)*

15h45-16h10 Tea and posters

Session 13 : Devonian biotas – Part II
(Convener : B. Kröger)

- 16h10-16h30 WATERS, J.A. & Webster, G.D.
A reevaluation of Famennian echinoderm diversity: Implications for patterns of extinction and rebound in the Late Devonian
- 16h30-16h50 CASIER, J.-G. & Olempska, E.
Ostracods and the alleged punctata crisis in the type-locality for the definition of the Frasnian stage
- 16h50-17h10 FERNANDEZ-MARTINEZ, E.
The Upper Zlichovian Event (Emsian) in the neritic facies of the Cantabrian Zone and its impact on tabulate corals biodiversity
- 17h10-17h30 MISTIAEN, B., Zapalski, M.K. & Hubert, B.L.M.
Growth periodicity in favositid tabulate corals climatically controlled?

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Friday, August 29th

Scientific Sessions. Day 4

UPPER PALAEOZOIC PALAEOCLIMATE AND PALAEOGEOGRAPHY

Session 14 : Carboniferous Climates
(Convener : J.A. Waters)

- 9h15-10h00 **Keynote : PEREZ-HUERTA, A.**
Palaeoclimatic impact on Late Carboniferous marine ecosystems
- 10h00-10h20 POTY, E. & Hance L.
Global sea level and climatic changes during the Lower Carboniferous
- 10h20-10h40 ARMYNOT DU CHÂTELET, E., Chalais, B. & Vachard, D.
Micro-scale spatial variability of Visean benthic foraminifera; implication on sample size for paleoecological interpretation.

10h40-11h10 Coffee and posters

Session 15 : Permian Palaeoclimate
(Convener : E. Armynot du Châtelet)

- 11h10-11h55 **Keynote : ROSCHER, M., Berner, U. & Schneider, J.W.**
New Palaeogeography of Late Palaeozoic and Early Mesozoic – Climate Modelling and Geological Validation
- 11h55-12h15 Kearsy, T., Price, G.D., Twitchett, R.T. & Grimes S.
Palaeoclimate and stable isotope analyses of Permian-Triassic carbonate rich paleosols from the Southern Urals, Russia
- 12h15-12h30 Congress Closing**
- 12h30-14h00 Lunch**
- 14h30-16h30 Guided pedestrian tour through Lille**

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Poster presentations :

Antoshkina, A. I.

Role of climate in drowning of the Upper Ordovician-Lower Devonian reefs in the northeast European Platform

Beresi, M.S. & Kröger, B.

Mid Ordovician faunal assemblages and events in the Villicúm Range, Argentinian Precordillera

Bignon, A., Crônier, C., Hubert, B.L.M., Milhau, B., Mistiaen, B., Nicollin, J.-P. & Zapalski, M.K.

Changes in trilobite associations during the Devonian in the Ardenne Massif

Brice, D.

What are the causes and palaeoecological significance of small-sized samples of marine invertebrates?

Calner, M., Lehnert, O. & Nölvak, J.

The significance of middle Katian palaeokarst in Baltoscandia for upper Ordovician global climate

Chalais, B., Armynot du Châtelet, E. & Vachard, D.

Paleoecological interpretation of Visean micro-facies based on foraminiferal horizontal micro-repartition

Chen Feng, Fan Junxuan & Zhang Hua

Geobiodiversity database

Couto, H. & Lourenço, A.

The Late Ordovician glaciation in Valongo Anticline: evidences of eustatic sea-level changes

Cramer, B.D., McLaughlin, P.I., Kleffner, M.A. & Brett, C.E.

'Paleozoic stratigraphy has all been done before': An opposing view from Silurian high-resolution stratigraphy across the Cincinnati Arch

Davies, J.R., Wilson, D., Waters, R.A., Williams, M. & Schofield, D.I.

Late Hirnantian (Ordovician) sedimentary and faunal events in the Welsh Basin (UK): a record of rapid post-glacial, climatic and oceanic change

Göncüoğlu, M.C.

Correlation of Darriwilian successions in Gondwanan (SE Anatolian autochthon & Taurides) and Peri-Gondwanan (Istanbul & Zonguldak) terranes in Turkey

Göncüoğlu, M.C., Boncheva, I., Yılmaz, O., Saydam-Demiray, G.

Middle Devonian "Oolitic Ironstone" Formations within the Palaeozoic carbonate platform in NW Anatolia

Harper, D.A.T & Liljeroth, M.

Changing biogeographic patterns through the Ordovician: Rhynchonelliform brachiopods respond spatially to diversification and extinction events

Hubmann, B., Messner, F., Suttner, T.J. & Verderber, L.

Devonian green algal flora of the Graz Palaeozoic: State of knowledge

Jiménez-Sánchez, A. & Villas, E.

The bryozoan dispersion into the North Gondwana margin during the pre-glacial Late Ordovician

Kiipli, E.

Phosphorous distribution in the Ordovician Baltic shelf

Lefebvre, B., Hunter, A. W., Nardin, E., Van Roy, P., Noailles, F., Franzin, B., Zamora, S., Régnault, S., Lazreq, N. & El Hariri, K.

New echinoderm Lagerstätten from the Upper Ordovician of Erfoud area (eastern Anti-Atlas, Morocco)

Lehnert, O., Calner, M. Joachimski, M.M., Buggisch, W. & Nölvak, J.

Intra-Baltic and Trans-Iapetus correlation of Upper Ordovician $\delta^{13}C$ data from the Borenhult-1 core (Östergötland, Sweden)

Legrain, X., Cesari, C., Clausen, S., Courville, P. & Vecoli, M.
First record of crinoid (Maenilicrinidae) from Middle Ordovician strata (Darriwilian) in the Armorican Massif (western France): paleogeographic implications

Li Jun, Servais, T. & Yan Kui
Acritarch biostratigraphy of the Lower-Middle Ordovician boundary : the Global Stratotype Section and Point (GSSP) of Huanghuachang, South China

Nardin, E., Lefebvre, B., & Fatka, O.
Evolution of ecospace occupation of Early Palaeozoic echinoderms

Pinte, E., Mistiaen, B. & Crônier, C.
Syringoporidae walls thickness climatically controlled?

Podhalanska, T.
The Hirnantian event in the sedimentary sequence from northern Poland: isotopic and geochemical records

Poiré, D.G. & Spalletti, L.A.
The transition from Upper Ordovician ice house to Lower Silurian green house in the Tandilia System, Rio de la Plata Craton, Argentina

Rubinstein, C.V., Servais, T., Vecoli, M. & Delabroye, A.
Ordovician acritarch biodiversity of the Western Gondwana active margin (Argentina): An overview

Schofield, D.I., Davies, J.R., Waters, R.A., Williams, M. & Wilson, D.
Interpreting the effects of glacioeustatic and locally influenced sea-level changes during the Early Palaeozoic: an example from the Early Silurian of Wales

Snellings, A. & Zalasiewicz, J.
Graptolites in 4-Dimensions

Suttner, T.J. & Hubmann, B.
Geochemical data and faunal dynamics: On the evidence of the Mid Devonian Chotec Event within the neritic sequence of the Graz Palaeozoic (Eastern Alps, Austria)

Trela, W. & Malec, J.
The Upper Devonian Hangenberg Event in the carbon isotope record of the southern Holy Cross Mountains (Central Poland)

Trela, W. & Podhalanska, T.
The Ordovician/Silurian boundary in the northern Holy Cross Mountains (Central Poland)

