



Address: Minnaert bldg. Room 208 - Leuvenlaan 4, de Uithof
Utrecht University - The Netherlands

- **Seminar attendance is free**

- **Poster contributions are still welcomed**

- **Registration by sending an email to:**

Guillaume Dupont-Nivet: gdn@geo.uu.nl

Roderic Bosboom: R.E.Bosboom@geo.uu.nl

<http://www.geo.uu.nl/~forth/people/Guillaume>

- **Special Issue**

Please consider submitting your work to a special issue in the [Journal of Asian Earth Sciences](#) following the themes of our meeting on "Asian Climate and Tectonics".

Editors: Guillaume Dupont-Nivet; An Yin; Peter Clift

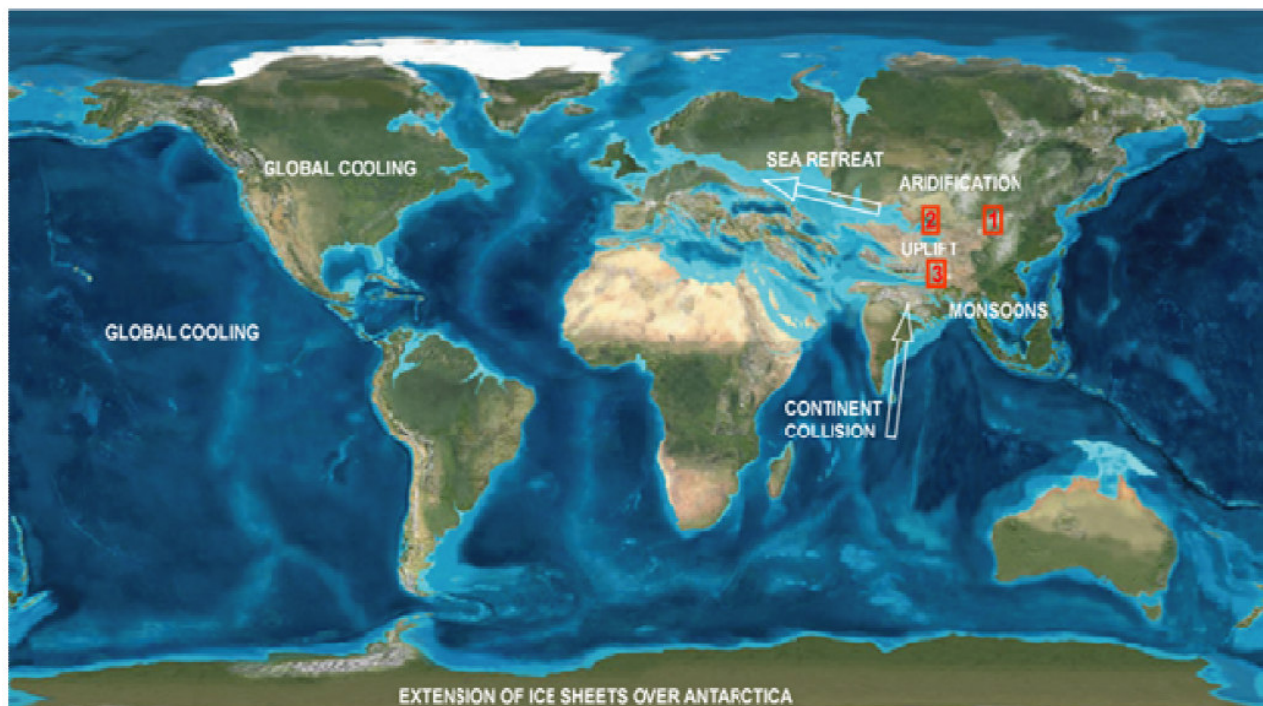
- [Submit](#) title, co-authors and abstract **BEFORE JUNE 1** to gdn@geo.uu.nl

- Expected manuscript submission **BEFORE SEPTEMBER 1**

- Expected publication: 2011

Presentation

This seminar will gather international scientists from transdisciplinary backgrounds (geodynamics, tectonics, climate modelling, thermochronology, stratigraphy, geochemistry, paleoclimatology, paleontology, geophysicists....) that are working together to understand interactions between climate and tectonics in the ideal natural laboratory of Asia. The interplay between climate and tectonics in the context of Eurasian geodynamics and associated orogens (e.g. Himalaya, Tibetan Plateau, Tian Shan, Gobi-Altai...) belong to the most significant and fascinating issues of Earth sciences. Major paleoenvironmental changes such as continental aridification and monsoon intensification are generally attributed to surface uplift and/or to land-sea redistributions (e.g. Paratethys retreat) associated with Eurasian tectonics (e.g. Indo-Asia collision). Moreover, global Cenozoic cooling with decreasing atmospheric CO₂ levels has been attributed to erosion of the uplifting mountain ranges, following Tethyan subductions and the onset of continental collisions. On the other hand, recent findings suggest that monsoons and global climate have had a prevailing role in denudation rates shaping Eurasian orogens, in altering Asian environments and in triggering biotic events. These results challenge the geosciences community to establish unequivocal relationships between tectonism, global climate and major environmental changes in Asia.



Monday 26 April

9:00-9:30 REGISTRATION

9:30-10:15 ***Introduction to Asian Climate and Tectonics***
Guillaume Dupont-Nivet; *Utrecht University*; gdn@geo.uu.nl

Coffee Break at Posters

SESSION 1: TECTONICS AND GEODYNAMIC

10:45-11:30 ***Cenozoic tectonic evolution of Asia: the story of two indenters***
An Yin; *UC Los Angeles*; yin@ess.ucla.edu

11:45-12:15 ***Complex metamorphic histories from Dabieshan: insights from U/Pb, Lu/Hf and 40Ar/39Ar geochronology***
Jan Wijbrans, Fraukje Brouwer, Huaning Qiu, Yuanbao Wu, Yilong Li, Rongguo Hu; *Vrije Universiteit Amsterdam*; Jan.Wijbrans@falw.vu.nl

Lunch

SESSION 1: TECTONICS AND GEODYNAMIC

13:30-13:30 ***Plateau development in central Tibet by ~50 Myr and subsequent growth***
Alexander Rohrmann; *Uni. Potsdam*; rohrmann@geo.uni-potsdam.de

13:45-14:30 ***Tectonics of northern Himalaya in China since early Oligocene***
Jinjiang Zhang ; *Peking University*; zhjj@pku.edu.cn

Coffee Break at Posters

15:00-15:45 ***Age and paleolatitude of the India-Asia collision and the Asian inclination problem: new paleomagnetic constraints***
Douwe van Hinsbergen, Guillaume Dupont-Nivet, Pete Lippert, Paul Kapp; *Oslo University*; douwework@gmail.com

16:00-16:45 ***The Late Paleogene Latitude of Central Tibet***
Peter Lippert, Xixi Zhao and Robert Coe; *UC Santa Cruz*; plippert@pmc.ucsc.edu

Drinks

Asian aridification linked to the first step of the Eocene-Oligocene climate Transition (EOT) in obliquity-dominated terrestrial records (Xining Basin, China); Guoqiao Xiao, Hemmo A. Abels, Zhengquan Yao, Guillaume Dupont-Nivet, Frederik J. Hilgen; *Utrecht University*; abels@geo.uu.nl

Middle to late Miocene Middle Eastern climate from stable oxygen and carbon isotope data, southern Alborz mountains, N Iran; Paolo Ballato, Andreas Mulch, Angela Landgraf, Manfred R. Strecker, Chiara M. Dalconi, Anke Friedrich, Saeid H. Tabatabaei; *Uni. Postdam*; Paolo.Ballato@geo.uni-potsdam.de

Coherence of the Dabie Shan UHPM terrane investigated by Lu-Hf and $40\text{Ar}/39\text{Ar}$ dating of eclogites; Fraukje M Brouwer, Mirek Groen, Oliver Nebel, Jan R Wijbrans, Huaning Qiu; *Vrije Universiteit Amsterdam*; fraukje.brouwer@falw.vu.nl

Key tectonic and climatic processes from the Late Eocene-Oligocene continental record of the South Pyrenean Foreland Basin; Elisenda Costa, Miguel Garcés, Miguel López-Blanco, Elisabet Beamud, Miriam Gómez-Paccard, Juan Cruz Larrasoana, Lluís Cabrera, Alberto Sáez; *University of Barcelona*; elicosta@ub.edu

A complete magnetic polarity stratigraphy of the Miocene continental deposits of Mae Moh basin, northern Thailand and a reassessment of the age of Hominoid bearing localities in Northern Thailand; Pauline Coster, Mouloud Bennami; *Univ. Poitiers*; pauline.coster@etu.univ-poitiers.fr

Climate and tectonic changes during the Indo-Asia collision; Guillaume Dupont-Nivet, Roderic Bosboom, Hemmo Abels, Carina Hoorn, Wout Krijgsman, Zhaojie Guo, and the Asian Climate and Tectonic Team; *Utrecht University*; gdn@geo.uu.nl

Late Santonian-Early Maastrichtian calcareous nannoplankton from Marly deposits near Kerman (Central Iran); Fatemeh Hadavi, Akram Pouresmaeil; *University of Mashhad, Iran*; fatemehhadavi@yahoo.com

Tectonics and climate controls on erosion and sedimentary deposition in SE Asia reconstructed from sedimentary records of the Song Hong-Yinggehai and Qiongdongnan Basin, South China Sea; Long Van Hoang, Peter D. Clift, Mads Huuse, Fu-Yuan Wu, Darren Mark; *Aberdeen University*; l.v.hoang@abdn.ac.uk

The Eocene-Oligocene palynological record from the Xining Basin (Tibetan Plateau, China) as evidence for Asian paleoenvironments and regional change; Carina Hoorn, Julia Straathof, Hemmo A. Abels, Guillaume Dupont-Nivet; *Universiteit van Amsterdam*; M.C.Hoorn@uva.nl

Principal component analysis of chemical properties of terrestrial sediments in the Donggi Cona lake catchment, eastern Tibetan Plateau, China; Janneke IJmker, Wolfgang Roemer, Kai Hartmann, Georg Stauch and Frank Lehmkuhl; *RWTH Aachen*; j.ijmker@geo.rwth-aachen.de

Preliminary results of continental erosion and Holocene climate studies from the Indus Shelf, Pakistan; David Robert Limmer, Cornelia Köhler, Peter Clift, Matthew Cooper and Liviu Giosan; *Aberdeen University*; d.r.limmer@abdn.ac.uk

Spatial and temporal patterns of intracontinental tectonism in the Kyrgyz Tien Shan; Euan Macaulay, Edward Sobel, Alexander Mikolaichuk, Barry Kohn; *Uni. Postdam*; Euan.Macaulay@geo.uni-potsdam.de

A regional climate model experiment to investigate the Asian monsoon in the Late Miocene; Hui Tang, Arne Micheels, Jussi Eronen, Mikael Fortelius; *Univ. of Helsinki*; hui.tang@helsinki.fi

The palaeoclimatic significance of Eurasian Giant Salamanders (Cryptobranchidae: *Zaissanurus*, *Andrias*) - indications for elevated humidity in Central Asia during global warm periods (Eocene, late Oligocene warming, Miocene Climate Optimum); Davit Vasilyan, Madelaine Böhme, and Michael Winklhofer; *Uni. Tuebingen*; davit.vasilyan@ifg.uni-tuebingen.de

Palaeoclimate and tectonism as driving mechanisms for palaeoenvironmental change in the Himalayan Gyirong Basin (Neogene, China); Yadong Xu, Kexin Zhang, Guocan Wang, Shangsong Jiang, Fenning Chen, Shuyuan Xiang, Carina Hoorn; *Universiteit van Amsterdam; yuren36@gmail.com*

Using garnet peridotites as tools to reconstruct paleo-geodynamic settings of fossil continental collision zone; Cong Zhang; Herman Van Roermund; Lifei Zhang; *Utrecht University; czhang@geo.uu.nl*

Lunch

SESSION 2: PALEOENVIRONMENTAL RECORDS AND CLIMATE MODELS

13:00-13:45 ***From Greenhouse to Icehouse at the Wilkes Land Margin, Antarctica - first results of IODP 318***
Henk Brinkhuis; *Utrecht University; H.Brinkhuis@uu.nl*

14:00-14:45 ***Effects of Paleogeography on Climate and Hydroclimatology in Eocene-Oligocene Time***
Matthew Huber; *Purdue University; huberm@purdue.edu*

Coffee Break at Posters

15:15-16:00 ***Mammalian faunal turnover and climate change in the Paleogene of Asia***
Gabriel Bowen, William Clyde, Meng Jin, Paul Koch, Kathryn Snell, Suyin Ting, Yongseng Tong, Wang Yuanqing; *Purdue University; gjbowen@purdue.edu*

16:15-16:45 ***Late Eocene sea retreat from the Tarim Basin (West China) in association with Asian paleoenvironmental change***
Roderic Bosboom, Sander Houben, Guillaume Dupont-Nivet, Henk Brinkhuis, Giuliana Villa., Oleg Mandic, Marius Stoica, Jan-Willem Zachariasse, Wout Krijgsman, Zhaojie Guo, Chuanxin Li; *Utrecht University; R.E.Bosboom@geo.uu.nl*

Drinks

SESSION 2: PALEOENVIRONMENTAL RECORDS AND CLIMATE MODELS

- 9:00-9:45 ***Evolution of the Paratethys, the lost sea of Central Eurasia***
Wout Krijgsman; *Utrecht University*; krijgsma@geo.uu.nl
- 9:45-10:30 ***Gradients in precipitation and seasonality between Central and Eastern Asia (Mongolia, Northern Vietnam) during the Oligocene with implication for earlier monsoonal circulation***
Madelaine Boehme, Michael Krings, Jérôme Prieto, and Simon Schneider; *Uni. Muenchen*;
m.boehme@lrz.uni-muenchen.de

Coffee Break at Posters

- 11:00-11:45 ***Paleoenvironmental signatures in Paleogene continental successions in the Xining Basin***
Hemmo A. Abels, Guillaume Dupont-Nivet, Roderic Bosboom, Carmela Garziona, Frits J. Hilgen, Carina Hoorn, Wout Krijgsman, Jef Vandenberghe, G. Xiao; *Utrecht University*;
abels@geo.uu.nl
- 11:45-12:15 ***The Eocene-Oligocene palynological record from the Xining Basin (Tibetan Plateau, China) as evidence for Asian paleoenvironments and regional change***
Carina Hoorn, Julia Straathof, Hemmo A. Abels, Guillaume Dupont-Nivet; *Universiteit van Amsterdam*; M.C.Hoorn@uva.nl

Lunch

SESSION 3: TECTONIC CLIMATE INTERACTIONS

- 13:00-13:45 ***Study on relationship between erosion and tectonic uplift in Northern Qilianshan, China***
Baotian Pan, Xiaofei Hu, Haopeng Geng and Zhenbo Hu; *Lanzhou University*; panbt@lzu.edu.cn
- 13:45-14:30 ***Climatic versus tectonic control on terrace development in the Huang Shui catchment (NE Tibet Plateau)***
Jef Vandenberghe; *Vrije Universiteit Amsterdam*; jef.vandenberghe@falw.vu.nl

Coffee Break at Posters

- 15:00-15:30 ***Syntectonic extension and recent exhumation (climatically enforced?) giant domes (Mustagh Ata and Kongur Shan) in the Pamir***
Rasmus Thiede, Edward Sobel, Lindsay Schoenbohm, Jie Chen, Daniel Stockli; *Uni. Postdam*;
thiede@geo.uni-potsdam.de
- 15:30-16:00 ***Cenozoic exhumation and thrusting in the northern Tian Shan, NW China***
Zhaojie Guo, Li Chuanxin, Guillaume Dupont-Nivet; *Peking University*;
zguo@geoms.geo.pku.edu.cn
- 16:15-17:00 ***Wind Erosion in the Qaidam Basin: Records, Rates, and Implications for Tectonics and the Source of the Loess Plateau***
Paul Kapp, Richard Heermance, and Alexander Rohrmann; *University of Arizona*;
pkapp@geo.arizona.edu

Drinks

SESSION 3: TECTONIC CLIMATE INTERACTIONS

9:00-9:45 ***The erosional response to Himalayan evolution***
Yani Najman; *Lancaster University*; Y.Najman@lancaster.ac.uk

10:00-10:45 ***Glacial and landslide feedbacks on topographic relief in the Himalaya Syntaxes***
Oliver Korup, David Montgomery, Kenneth Hewitt; *Uni. Postdam*; oliver.korup@geo.uni-potsdam.de

Coffee Break at Posters

11:15-12:00 ***The interactions between climate and tectonics in Himalaya from the sedimentary record of the Siwalik foreland basin***
P. Huyghe, M. Bernet, F. Chirouze, A. Gajurel, J.L. Mugnier, X. Robert, P. van der Beek;
Grenoble University; huyghe@ujf-grenoble.fr

Lunch

13:00-13:30 ***Detrital thermochronology of Eastern Himalaya***
Francois Chirouze, Guillaume Dupont-Nivet, Pascale Huyghe, Peter van der Beek et Matthias Bernet ; *Grenoble University*; francois.chirouze@bvra.ujf-grenoble.fr

13:30-14:00 ***Interrelation between tectonism, climate, geomorphology and sedimentary deposits: a view from the eastern Himalayan foredeep***
Tapan Chakraborty; *Indian Statistical Institute*; chakraborty.tapan@gmail.com

Coffee Break at Posters

14:30-15:15 ***Reconciling Competing Monsoon Proxies in the Asian Marginal Seas: A Synthesis of Long-term Climatic Evolution***
Peter Clift; *Aberdeen University*; pclift@whoi.edu

15:30-16:30 ***Conclusions and open discussion***
Guillaume Dupont-Nivet; *Utrecht University*; gdn@geo.uu.nl

Getting there

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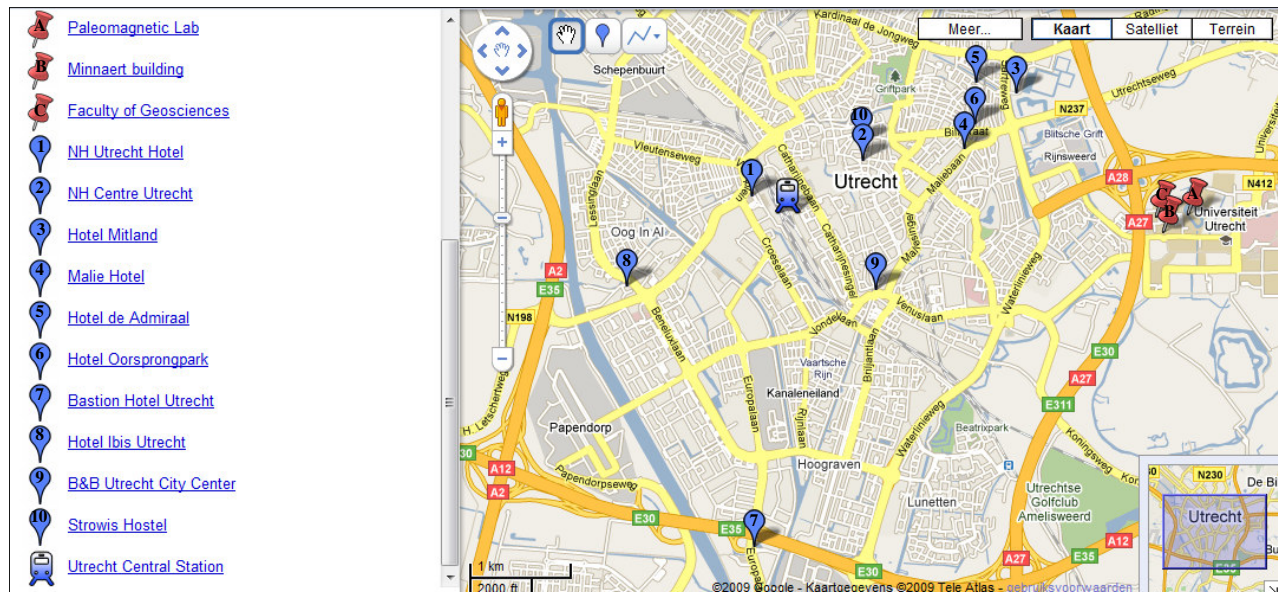
Utrecht is easily accessible by train and car, and is reached by a 30 minutes train ride from Schiphol Airport in Amsterdam.

The Minnaert building and Faculty of Geosciences of the Utrecht University are located at the

Uithof at the eastern side of town, which is most easily reached by buses 11 and 12.

Train tickets are sold at ticket points at each train station. Tickets for bus, metro and tram are called 'strippenkaart' or 'OV-chipkaart' and are available at most small shops at train stations.

Information for tourists is available at <http://utrecht.utrechtyourway.nl> (select your preferred language at the top right corner).



Accommodations

The town offers a wide range of accommodation of all categories, from luxury hotels to simple youth hostels. Participants are asked to book their accommodation by themselves. An incomplete list with examples of accommodation is shown below. Room prices are based upon single rooms including taxes.

HOTELS

1. NH Utrecht Hotel (rooms from € 103,67 p.p.p.n. - 4 stars)

Address: Jaarbeursplein 24, 3521 AR Utrecht
Phone: +31 (0)30 2977977
Fax: +31 (0)30 2977999
Email: nhutrecht@nh-hotels.com
Website: <http://www.nh-hotels.com/nh/en/hotels/the-netherlands/utrecht/nh-utrecht.html?action=search&from=resultsPage>

2. NH Centre Utrecht (rooms from € 103,67 p.p.p.n. - 3 stars)

Address: Hotel Janskerkhof 10, 3512 BL Utrecht
Phone: +31 (0)30 2313169
Fax: +31 (0)30 2310148
Email: nhcentreutrecht@nh-hotels.com
Website: <http://www.nh-hotels.com/nh/en/hotels/the-netherlands/utrecht/nh-centre-utrecht.html?action=search&from=resultsPage>

3. Hotel Mitland (rooms from € 115,00 p.p.p.n. (including breakfast) - 4 stars)

Address: Arienslaan 1, 3573 PT Utrecht
Phone: +31 (0)30 2715824
Fax: +31 (0)30 2719003
Email: info@mitland.nl
Website: http://www.mitland.nl/home_e.htm

4. Malie Hotel - Hampshire Classic (rooms from € 89,00 p.p.p.n. - 4 stars)

Address: Maliestraat 2, 3581 SL Utrecht
Phone: +31 (0)30 2316424
Fax: +31 (0)30 2340661
Email: info@maliehotel.nl
Website: http://www.hampshire-hotels.com/hotel_details.php?lan=en&hotelId=44

Rooms from € 115

5. Hotel de Admiraal (rooms from € 68,00 p.p.p.n. - 2 stars)

Address: Admiraal van Gentstraat 11, 3572 XE Utrecht.
Phone: +31 (0)30 275 85 00
Fax: +31 (0)30 275 85 01
Email: mail@hoteldeadmiraal.nl
Website: <http://www.hoteldeadmiraal.nl>

6. Hotel Oorsprongpark (rooms from € 95,00 p.p.p.n. (including breakfast) - 2 stars)

Address: F.C. Dondersstraat 12, 3572 JH Utrecht
Phone: +31 (0)30 2716303
Fax: +31 (0)30 2714619
Email: info@oorsprongpark.nl
Website: http://www.oorsprongpark.nl/site_en/index.htm

7. Bastion Hotel Utrecht (rooms from € 100,00 p.p.p.n. - 3 stars)

Address: Mauritiuslaan 1, 3526 LD Utrecht
Phone: +31 (0)30 2871400
Fax: +31 (0)30 2871012
Website: <https://www.bastionhotels.nl/en/ourhotels/utrecht>

8. Hotel Ibis Utrecht (rooms from € 103,95 p.p.p.n. - 3 stars)

Address: Bizetlaan 1, 3533 KC Utrecht
Phone: +31 (0)30 2910366
Fax: +31 (0)30 2942066
Email: h0880@accor-hotels.com
Website: <http://www.ibishotel.com/nl/hotel-0880-ibis-utrecht/index.shtml>

YOUTH HOSTELS AND BED AND BREAKFAST

9. B&B Utrecht City Center (bed from € 18,50 - rooms from € 55,00 (including breakfast, lunch, dinner, internet))

Address: Lucas Bolwerk 4, 3512 EG Utrecht
Phone: +31 (0)650434884
Fax: +31 (0)30 2448764
Email: info@hostelutrecht.nl
Website: <http://www.hostelutrecht.nl/>

10. Strowis Hostel (bed from € 15,00 - rooms from € 57,50)

Address: Boothstraat 8, 3512 BW Utrecht
Phone: +31 (0)30 2380280
Fax: +31 (0)30 2415451
Email: info@strowis.nl
Website: <http://www.strowis.nl/GB-html/hostel-utrecht-general.html>

11. Elsa's home B&B (Single from € 50 - (including breakfast))

Address: Lessinglaan 100, 3533 AZ Utrecht
Phone: + 31(0) 6 44070949
Website: <http://www.elsas-home.com/elsa.html>

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