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GEOSTAT 2012 Münster [1]

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Live Streaming:

The sessions are available as streams (local time is CEST: GMT+2) and afterwards on the ustream.tv channels geostat-summer-school-2012 [2] (Erasmus Mundus Room) and geostat-summer-school-2012-2 [3] (CIP-pool). We do not guarantee the availability of the media as stream nor as recorded version.

[4]

GEOSTAT 2012 Summer School for PhD students and R-sig-geo enthusiasts will be held this year at the Institute for Geoinformatics of the University of Muenster, Germany in the period from 3-8(11) September. The topics include: spatial and spatio-temporal data and data analysis in R, R as a GIS, visualization of spatio-temporal data from R to Google Earth, GRASS GIS and SAGA GIS tutorials, spatial aggregation and change of support in geostatistics, and topics from spatio-temporal geostatistics.

ifgi
Institute for Geoinformatics
University of Münster

[5]

The regular registrations are now **closed**. The rankings are now available **here** [6]. The late registration is closed as well as no more places are available.

The registration fees for this 6-day summer school are **390 EUR**; these cover the actual costs, no profits are made. See below and the payment section [7] for more detail.

Local travel details:

All participants will receive a bus ticket valid for the whole period of the summer school in all local busses. The closest bus stop is located just across the street and called "**Inselbogen**". The bus routes 15, 16, 7 and 552 stop there. See below for details from a few hotels or check the online timetables [8] of the local carrier for connecting busses. The railway company offers an **English interface** to railway and local transport here [9]. It handles as well addresses, thus your destination is "Weseler Str. 253, Münster [10]". Please use the side entrance from the main road and proceed to the third floor.

Topics:

- Roger Bivand: **Spatial and spacetime classes in R** [11]
- Gerard Heuvelink: **Spatial aggregation and disaggregation methods** [12]
- Edzer Pebesma: **R as a GIS: overlay/aggregate, rgeos, osmar, networks** [13]
- Markus Neteler: **GRASS GIS tutorial** [14]
- Soeren Gebbert: **TGRASS (time-GRASS) tutorial** [15]
- Volker Wichman: **SAGA GIS tutorial** [16]
- Tomislav Hengl: **plotKML tutorial** [17]
- Benedikt Gräler: **Spatio-temporal geostatistics** [18]

The programme:

The working program (this will be continuously updated):

IfGI seminar room   IfGI CIP pool   EM room

DAY 1 - Monday, 3 Sept

IfGI seminar room   *IfGI CIP pool*

8:30-9:00 Registration (welcome coffee)

9:00-9:30 Welcome note (Pebesma, Graeler)

9:30-10:30 Introduction to GEOSTAT [22] (Hengl)

10:30-11:00 *Coffee break*

11:00-12:30 Introduction to representing spatial objects in R (Bivand, *see attached files for slides* [23] *and demo code and data* [24]). For an application see the current FAO statistical yearbook [25].

12:30-14:00 *Lunch break* (handout of wifi codes)

14:00-16:00 News and updates of GRASS GIS (Neteler, *see attached slides* [26])

16:00-16:30 *Coffee break*

16:30-17:00 Welcome to IfGI (Pebesma, Graeler)

18:00-20:00 R (+SAGA GIS) crash course (Hengl) / GRASS GIS installation [27] and crash course (Neteler)

20:00 Icebreaker at the institute

DAY 2 - Tuesday, 4 Sept

IfGI CIP pool

Spatial and spacetime classes in R [11]

EM room

GRASS GIS tutorial [14]

17:30: GPS rally (~2 hrs) starting at the Seminar room,

ending at the restaurant "Krusebaimken"

It is located at the Aasee (Münster's lake) towards the city center. Standing at the hughe spheres at the lake, the restaurant is located at the right hand-side surrounded by hughe trees at the crossing of "Adenaueralle" and "Am Stadtgraben".

DAY 3 - Wednesday, 5 Sept

Seminar room / IfGI CIP pool

EM room

R as a GIS: overlay/aggregate, rgeos, osmar, networks [13] the **morning session** will be held in the **Seminar room**, the exercise part in the **afternoon** will take place in the **CIP pool**.

starting at **14:00**, the **GRASS GIS tutorial** will be continued. Get updated material here [28]

19:00 Gala dinner at "Uferlos [29]"

DAY 4 - Thursday, 6 Sept

IfGI CIP pool

Spatio-temporal geostatistics [18]

EM room

SAGA GIS tutorial [16] **/ plotKML tutorial** [17]

DAY 5 - Friday, 7 Sept

IfGI CIP pool

EM room

from 9:00-10:30: **R + SAGA (RSAGA [30])**

11:00-12:30: **Automated geostatistics** (gstatModel class [31])

TGRASS (time-GRASS) tutorial [15]

starting from 14:00 **GRASS GIS tutorial continued**

DAY 6 - Saturday, 8 Sept

IfGI CIP pool

Spatial aggregation and disaggregation methods [12]

EM room

to be decided

Frisbee (starting 18:30) and BBQ (~19:30) at the lake (51.950587,7.603729 [32]).

DAY 7 - Sunday, 9 Sept

Excursion [33]

Who is invited: all

Departure: 09:10, central station, we will take the public **Bus number 7 departing at 09:20 (bring your Bus ticket!)**
Destination: Rieselfelder (European natural bird reserve)

We booked a guided walking tour through the are, so bring good shoes. Afterwards, we will walk to a Westfalian "Bauernhof Cafe" (a former farm surving warm food and cake). Food and drinks will be on your own costs.

DAY 8 - Monday, 10 Sept

IfGI CIP pool

EM room

<u>Building the uncertainty-enabled model web with UncertWeb tools</u> [34]
Who is invited: anyone interested in the model web

DAY 9 - Tuesday, 11 Sept

IfGI CIP pool   *EM room*

                                                  <u>R / Python development session</u> [35]
-   Who is invited: anyone registered on
                                                  some project on r-forge (which is free!)

Important dates:

- Registration deadline: **15th of April**
- Published rankings: <u>1th of May</u> [6]
- Deadline for paying the registration fees: **<u>1th of June</u>** [7] (no extensions possible)
- Final program of the summer school: 1th of July

Contacts:

- <u>B. (Ben) Gräler</u> [36] - lecture rooms, financial matters, visas, invitation letters, accommodation, WLAN
- <u>T. (Tom) Hengl</u> [37] - registrations, website materials
- <u>E. (Edzer) Pebesma</u> [38] - the daily program

Selection of the candidates:

Selection of candidates is based on a ranking system, which is based on: solidarity (participants further away from the venue receive higher ranking, to remove geographical bias towards Western Europe), academic record, and contributions to open source projects. Participants from ODA countries typically receive a subsidized price for the accommodation and registration costs.

Registration fees:

The registration fees for this 6-day summer school **are <u>390 EUR</u>** [7]; these cover the actual costs, no profits are made. **<u>The organizers provide no funding/scholarships to participants</u>**. Participants from <u>ODA countries</u> [39] may apply for a discounted price of 200 EUR and subsidized accommodation costs (shared two bed room); please send us an e-mail at <u>geostat-2012@uni-muenster.de</u> [40]. For continuous updates please register for the GEOSTAT newsletter.

Accommodation:

For more info about accommodation possibilities please contact B. (Ben) Gräler [36].

Hotels:

- A couple of reserved rooms are available here [41].
- Some rooms are available at the Johanniter Gästehaus [42] (~10 min walking, see the google screenshot below for directions.)

Hostels:

- sleep-station [43]: 20 € - 40 € (~20 min by bus; walk to the central station and take one of 7, 15, 16 (at least one bus every 10 minutes). The busses depart from platform D1.)
- Nordstern [44]: 20 € - 25 € (~25 mins by bus; take bus 15, or 16 from "Hoyastraße", they will depart once every 10 minutes: 08:08, 08:18, ... and arrive 21 minutes later at "Inselbogen".)

Airports & Railway connections:

The local airport Münster-Osnabrück (FMO) is rather small, but some companies might offer cheap connecting flights.

Larger/alternative airports close by are

- Dortmund (DTM, ~1:20 hrs by train)
- Düsseldorf (DUS, ~2:15 hrs by train)
- Köln/Bonn (CGN, ~2:30 hrs by train)
- Hannover (HAJ, ~2.30 hrs by train)
- Frankfurt (M) (FRA, ~3:00 hrs by train)
- Niederrhein (NRN, small Ryanair airport, ~3:30 hrs by train)

Münster is well connected to the German railway network. Some airlines [45] offer *Rail&Fly* [46] tickets that allow you to flexibly travel within Germany from your airport to your destination by train. General information on railway connections can be found at bahn.de [47]. Make sure to select *Münster(Westf) Hbf* as your destination. You can as well enter your hotel's address and you will be guided to the closest bus stop.

Sponsors:

This year?s Summer School is sponsored by the **Institute for Geoinformatics** [48] of the University of Muenster **(R development centre [49])**, and by the **52°North open source initiative [50]**. This event also would not be possible without the support of the following organizations: ISRIC - World Soil Information, Wageningen University [51], Norweigan School of Economics [52], Fondazione Edmund Mach [53] (FEM), University of Ulm, LASERDATA GmbH, alpS GmbH [54], and KNMI [55].

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[2] http://www.ustream.tv/channel/geostat-summer-school-2012
[3] http://www.ustream.tv/channel/geostat-summer-school-2012-2
[4] http://www.geostat-course.org/node/829
[5] http://ifgi.uni-muenster.de/
[6] http://www.geostat-course.org/rankings_Muenster
[7] http://www.geostat-course.org/refunding_policy
[8] http://www.stadtwerke-muenster.de/?&id=2152
[9] http://www.bahn.com/i/view/DEU/en/index.shtml
[10] http://osm.org/go/0GN51yxqc-
[11] http://www.geostat-course.org/Topic_Bivand_2012
[12] http://www.geostat-course.org/Topic_Heuvelink_2012
[13] http://www.geostat-course.org/Topic_Pebesma_2012
[14] http://www.geostat-course.org/Topic_NetelerMetz_2012
[15] http://www.geostat-course.org/Topic_Gebbert
[16] http://www.geostat-course.org/Topic_Wichmann
[17] http://www.geostat-course.org/Topic_Hengl_2012
[18] http://www.geostat-course.org/Topic_Graeler
[19] http://www.geostat-course.org/node/787
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[21] http://www.geostat-course.org/node/788
[22] https://docs.google.com/present/view?id=dhbpzjb4_267drg3jvfp
[23] http://geostat-course.org/system/files/monday_slides_0.pdf
[24] http://geostat-course.org/system/files/monday.zip
[25] http://www.fao.org/economic/ess/ess-publications/ess-yearbook/yearbook2012/en/
[26] http://geostat-course.org/system/files/GRASS_NEWS_geostat2012_muenster.pdf
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[28] http://data.neteler.org/geostat2012/
[29] http://www.uferlos-muenster.de/pages/anfahrt_start_lageplan.html
[30] http://cran.r-project.org/web/packages/RSAGA/index.html
[31] http://gsif.r-forge.r-project.org/gstatModel-class.html
[32]
http://maps.google.com/maps?q=51.950587,7.603729&hl=en&sll=51.951073,7.604492&sspn=0.0022
[33] http://www.geostat-course.org/Excursion_Muenster
[34] http://www.geostat-course.org/UncertWeb_Muenster
[35] http://www.geostat-course.org/R_development_workshop
[36] http://ifgi.uni-muenster.de/staff/benedikt-graeler
[37] http://www.vcard.wur.nl/Views/Profile/View.aspx?id=37263
[38] http://ifgi.uni-muenster.de/staff/edzer-pebesma
[39] http://www.oecd.org/dac/stats/daclist
[40] mailto:geostat-2012@uni-muenster.de
[41] http://germany.nethotels.com/info/muenster/events/Summer_School/default_en.htm
[42] http://www.johanniter.de/einrichtungen/freizeit-und-tagungsstaetten/johanniter-gaestehaus-muenster/zimmer/
[43] http://sleep-station.de
[44] http://nordstern-hostel.de
[45] http://www.bahn.de/p/view/mdb/pv/mobilit_t/rail_fly_airrail/MDB105497-20120509_airlines_mai_2012_internetdarstellung.pdf
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[47] http://www.bahn.de/i/view/DEU/en/index.shtml
[48] http://ifgi.uni-muenster.de
[49] http://giv-wikis.uni-muenster.de/agp/bin/view/Main/RDevelopmentCenter
[50] http://52north.org
[51] http://isric.org/services/training-and-education
[52] http://www.nhh.no/Default.aspx?ID=697

[53] http://gis.cri.fmach.it/

[54] http://www.alp-s.at/cms/de/ueber-alps/team/mitarbeiter/wichmann-volker/

[55] http://eca.knmi.nl/