



DEPARTMENT OF EARTH SCIENCES

NGN200 Geographical Information Systems III(GIS), 7.5 credits

Geografiska informationssystem III (GIS), 7,5 högskolepoäng

Second Cycle

Reading list for NGN200, to be valid from autumn semester of 2019

Reading list was confirmed by Department of Earth Sciences on 2019-10-07 to be valid from 2019-10-08.

See appendix.



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Second Cycle

NGN200, Geografiska informationssystem III (GIS), 7,5 hp

Avancerad nivå

Established by the Department of Earth Sciences 2019-10-07.

Andersson-Sköld, Y., Klingberg, J., Gunnarsson, B., Gustafsson, I., Hedblom, M., Knez, I., Lindberg, F., Ode Sang, Å., Pleijel, H., Thorsson, P. and Thorsson, S. (2017): "A framework for assessing urban greenery's effects and valuing its ecosystem services" in *Journal of Environmental Management*, Volume 205, 1 January 2018: pages 274-285.

Fischer, M. (2003): "GIS and Network Analysis", in: Hensher D., Button K., Haynes K. and Stopher, P. (eds.) *Handbook 5 Transport Geography and Spatial Systems*. Pergamon Press.

Harrie (ed) 2012: *Geografisk Informationsbehandling*. Sjätte upplagan. Studentlitteratur. Chapter. 9.10 – 9.14 pp. 247-262. and Chapter 9.5 pp. 224-227.

Klingberg, J., Konarska, J., Lindberg, F., Johansson, L. and Thorsson, S. (2017): "Leaf area of urban woodlands, parks and trees in a high latitude city" in *Urban Forestry and Urban Greening*. 26, pages 31-40.

Malczewski, J. and Rinner, C. (2015): *Multicriteria Decision Analysis in Geographic Information Science*. Springer Verlag. Chapters 1-3 pp. 3-68. Download: <https://link.springer.com/content/pdf/10.1007%2F978-3-540-74757-4.pdf>

Yu, B., Liu, H., Wu, J., Lin, W.-M., (2009): "Investigating impacts of urban morphology on spatio-temporal variations of solar radiation with airborne LIDAR data and a solar flux model: a case study of downtown Houston" in *Int. J. Rem. Sens.* 30, pages 4359–4385.

Reference literature:

Göcmen and Ventura (2010): "Barriers to GIS use in Planning" in *Journal of the American Planning Association*, Vol. 76 (2). Pages: 172-183.

Harrie (ed) 2012: *Geografisk Informationsbehandling: teori, metoder och tillämpningar*. Sjätte upplagan. Studentlitteratur.

Longley P, Goodchild M, Maguire D, Rhind D 2010: *Geographic Information Systems and Science*, 3rd Edition.

Malczewski, J. and Rinner, C. (2015): *Multicriteria Decision Analysis in Geographic Information Science*. Springer Verlag.

Exited main book:

Maantay and Ziegler (2006): *GIS for the urban environment*. ESRI press.

NOTE! Exited as main book in the course but is still available from the CANVAS Document page.