

EuroGeographics Webinar series - Member Case Studies:

Further reading materials about COVID-19 mapping and spatial analyses

Maged N. Kamel Boulos and Estella M. Geraghty (2020). Geographical tracking and mapping of coronavirus disease COVID-19/severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) epidemic and associated events around the world: how 21st century GIS technologies are supporting the global fight against outbreaks and epidemics. *International Journal of Health Geographics*, 19(8). <https://ij-healthgeographics.biomedcentral.com/articles/10.1186/s12942-020-00202-8>

Joseph Bullock, Alexandra Luccioni, Katherine Hoffmann Pham, Cynthia Sin Nga Lam, Miguel Luengo-Oroz (2020). Mapping the landscape of Artificial Intelligence applications against COVID-19. *Computers and Society*. <https://arxiv.org/pdf/2003.11336.pdf>

Leon Danon, Ellen Brooks-Pollock, Mick Bailey and Matt Keeling (2020). A spatial model of CoVID-19 transmission in England and Wales: early spread and peak timing. *MEDRXIV*. <https://www.medrxiv.org/content/10.1101/2020.02.12.20022566v1.full.pdf>

Song Gao, Jinmeng Rao, Yuhao Kang, Yunlei Liang, and Jake Kruse (2020). Mapping county-level mobility pattern changes in the United States in response to COVID-19. *SIGSPATIAL Special Issue*. <https://dl.acm.org/doi/pdf/10.1145/3404111.3404115>

Marino Gatto, Enrico Bertuzzo, Lorenzo Mari, Stefano Miccoli, Luca Carraro, Renato Casagrandi, and Andrea Rinaldo (2020). Spread and dynamics of the COVID-19 epidemic in Italy: Effects of emergency containment measures. *PNAS - Proceedings of the National Academy of Sciences*. <https://www.pnas.org/content/pnas/117/19/10484.full.pdf>

Este Geraghty (2020). COVID-19: Five Spatial Approaches to Safely Reopen. *esri blog*. <https://www.esri.com/about/newsroom/blog/covid-19-five-spatial-approaches-to-safely-reopen/>

Dayun Kang, Hyunho Choi, Jong-Hun Kim and Jungsoon Cho (2020). Spatial epidemic dynamics of the COVID-19 outbreak in China. *International Journal of Infectious Diseases*, 94: 96-102. <https://www.sciencedirect.com/science/article/pii/S1201971220302095>

Nick Land (2020). GIS for COVID-19. Response & Recovery. Webcast to EuroSDR BOD. <http://www.eurosd.net/sites/default/files/images/inline/eurosd Webinar - gis for covid-19 response recovery.pdf>

Greg Scott (2020). How mapping the pandemic helps international development. *Ordnance Survey*. <https://www.ordnancesurvey.co.uk/business-government/innovation/happens/articles-ehs/mapping-pandemic-helps-international-development>

Chenghu Zhou, Fenzhen Su, Tao Pei, An Zhang, Yunyan Du, Bin Luo, Zhidong Cao, Juanle Wang, Wen Yuan, Yunqiang Zhu, Ci Song, Jie Chen, Jun Xu, Fujia Li, Ting Ma, Lili Jiang, Fengqin Yan, Jiawei Yi, Yunfeng Hu, Yilan Liao, Han Xiao (2020). COVID-19: Challenges to GIS with Big Data. *Geography and Sustainability* (2020), 1: 77-87. <https://reader.elsevier.com/reader/sd/pii/S2666683920300092?token=B381D51C331C78E530151ABF42EBE463B241DDDF2CBF7972945412FD75383AB138B132263C2CB4F68F30FA2A6880A5F3>

Eurisy: What we can learn from the Coronavirus crisis with satellite data. https://www.eurisy.org/article-what-we-can-learn-from-the-corona-crisis-with-satellite-data_46



Eurostat: Visualise air passenger transport in Europe in 2018. <https://ec.europa.eu/eurostat/web/products-eurostat-news/-/WDN-20200404-1?inheritRedirect=true&redirect=%2Feurostat%2Fnews%2Fwhats-new>

Eurostat: Elderly population across EU regions. <https://ec.europa.eu/eurostat/web/products-eurostat-news/-/DDN-20200402-1?inheritRedirect=true&redirect=%2Feurostat%2Fnews%2Fwhats-new>

Eurostat: Self-employment across EU regions. <https://ec.europa.eu/eurostat/web/products-eurostat-news/-/DDN-20200401-1?inheritRedirect=true&redirect=%2Feurostat%2Fnews%2Fwhats-new>

Eurostat: Commuting between region. <https://ec.europa.eu/eurostat/web/products-eurostat-news/-/DDN-20200324-1?inheritRedirect=true&redirect=%2Feurostat%2Fnews%2Fwhats-new>

Eurostat: 168 million arrivals by non-EU tourists in 2018. https://ec.europa.eu/eurostat/web/products-eurostat-news/-/DDN-20200323-1?inheritRedirect=true&redirect=%2Feurostat%2Fnews%2Fwhats-new%3Fp_id%3D101_INSTANCE_AJ2so9Q6Ai6F%26p_p_lifecycle%3D0%26p_p_state%3Dnormal%26p_p_mode%3Dview%26p_p_col_id%3Dcolumn-2%26p_p_col_count%3D1%26_101_INSTANCE_AJ2so9Q6Ai6F_delta%3D20%26_101_INSTANCE_AJ2so9Q6Ai6F_keywords%3D%26_101_INSTANCE_AJ2so9Q6Ai6F_advancedSearch%3Dfalse%26_101_INSTANCE_AJ2so9Q6Ai6F_andOperator%3Dtrue%26p_r_p_564233524_resetCur%3Dfalse%26_101_INSTANCE_AJ2so9Q6Ai6F_cur%3D2

Eurostat: Majority of health jobs held by women. <https://ec.europa.eu/eurostat/en/web/products-eurostat-news/-/DDN-20200409-2>

Eurostat: Healthcare services. GISCO dedicated page (work in progress). <https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/healthcare-services>

EU_Eurostat: Ever wondered how many hospital beds are in your region? Tweet. https://twitter.com/EU_Eurostat/status/1243885550626410497

New York Times: Tracking the Global Outbreak. <https://www.nytimes.com/interactive/2020/world/coronavirus-maps.html>

GIS Lounge: This Map is Tracking the Coronavirus (COVID-19) in Near-Realtime. <https://www.gislounge.com/this-map-is-tracking-the-novel-coronavirus-in-near-realtime/>

National Geographic: Mapping the global spread of the coronavirus. <https://www.nationalgeographic.com/science/2020/03/mapping-coronavirus-infections-across-the-globe/>

Esri: Corona Spatial Risk Analysis. https://www.arcgis.com/apps/View/index.html?appid=28deecc7eed4dfba550170cf81ac0aa&fbclid=IwAR1L-LzcLL4S7p1fq4v3e5fYvCt0J7utm37tK9qbimPRsZbM_9fqMkK-1jM