

Listed below are known citations to the NASA Socioeconomic Data and Applications Center (SEDAC) *Global Reservoir and Dam (GRanD)* data collection. The data collection, and specific data set (if known), being cited are beneath each citation. Citations to multiple collections/sets are listed on separate lines. If a publication cites remotely sensed earth observation data, whether from NASA or another source, those instruments and/or platforms are listed as well.

List last updated on 3 October 2023.

Abdelmohsen, K., Sultan, M., Save, H., Abotalib, A. Z., & Yan, E. (2020). What can the GRACE seasonal cycle tell us about lake-aquifer interactions? *Earth-Science Reviews*, 211, 103392.
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NASA REMOTE SENSING (GRACE)
NASA REMOTE SENSING (TRMM)
REMOTE SENSING (Landsat)

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<http://documents.worldbank.org/curated/en/2014/04/19456405/reducing-vulnerability-armenia-as-agricultural-systems-climate-change-impact-assessment-adaption-options>

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Global Reservoir and Dam (GRanD) v1.01 (reservoirs) - 10.7927/H4HH6H08

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Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

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continental-scale hydrological model using soil moisture and streamflow data. *Journal of Hydrology: Regional Studies*, 47, 101391. doi:10.1016/j.ejrh.2023.101391
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REMOTE SENSING (Landsat)
REMOTE SENSING (TanDEM-X (TDX))

Bhunia, G. S., & Shit, P. K. (2019). Spatial Database for Public Health and Cartographic Visualization. In G. S. Bhunia & P. K. Shit (Eds.), *Geospatial Analysis of Public Health* (pp. 29-57). Cham: Springer International Publishing.
Global Agricultural Lands (collection)
Gridded Population of the World (GPW) v4 (collection)
Global Reservoir and Dam (GRanD) v1.01 (dams)
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Global Reservoir and Dam (GRanD) v1 (collection)

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Global Reservoir and Dam (GRanD) v1 (collection)

NASA REMOTE SENSING (SRTM)

Hogeboom, R. J., de Bruin, D., Schyns, J. F., Krol, M. S., & Hoekstra, A. Y. (2020). Capping human water footprints in the world's river basins. *Earth's Future*, 8(2), e2019EF001363.

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Huettmann, F. (2020). Hydrodams in the Hindu Kush-Himalayas: Death by over 100 Cuts and 100 Blockages Built During a 'Development Hype' but Without a Relevant Impact Assessment or Synthesis. In G. R. Regmi & F. Huettmann (Eds.), *Hindu Kush-Himalaya Watersheds Downhill: Landscape Ecology and Conservation Perspectives* (pp. 633-648). Cham: Springer International Publishing.
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Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

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NASA REMOTE SENSING (Daily Lake Ice Phenology Time Series Derived from AMSR-E and AMSR2, v1)
NASA REMOTE SENSING (MEaSURES Global Record of Daily Landscape Freeze/Thaw Status, v4)

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Last of the Wild v2 (Human Influence Index (Geographic)) - 10.7927/H4BP00QC
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Global Reservoir and Dam (GRanD) v1.01 (dams)
NASA REMOTE SENSING (ICESat-2 ATLAS)
NASA REMOTE SENSING (ICESAT-2 airborne MABEL)
REMOTE SENSING (Landsat)

Li, Y., Gao, H., Zhao, G., & Tseng, K.-H. (2020). A high-resolution bathymetry dataset for global reservoirs using multi-source satellite imagery and altimetry. *Remote Sensing of Environment*, 244, 111831. doi:10.1016/j.rse.2020.111831

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)
NASA REMOTE SENSING (ICESat-2 ATLAS)
NASA REMOTE SENSING (ICESat GLAS)
REMOTE SENSING (Landsat)

Li, Y., Zhao, G., Shah, D., Zhao, M., Sarkar, S., Devadiga, S., . . . Gao, H. (2021). NASA's MODIS/VIIRS Global Water Reservoir product suite from moderate resolution remote sensing data. *Remote Sensing*, 13(4), 565. doi:10.3390/rs13040565

Global Reservoir and Dam (GRanD) v1.01 (dams)
NASA REMOTE SENSING (MODIS)
REMOTE SENSING (VIIRS)

Lin, M., Biswas, A., & Bennett, E. M. (2020). Socio-ecological determinants on spatio-temporal changes of groundwater in the Yellow River Basin, China. *Science of The Total Environment*, 731, 138725. doi:10.1016/j.scitotenv.2020.138725

Gridded Population of the World (GPW) v4.11 (population density UN WPP-adjusted) - 10.7927/H4F47M65
Global Reservoir and Dam (GRanD) v1 (collection)
NASA REMOTE SENSING (GRACE)

Lin, P., Pan, M., Beck, H. E., Yang, Y., Yamazaki, D., Frasson, R., . . . Wood, E. F. (2019). Global reconstruction of naturalized river flows at 2.94 million reaches. *Water Resources Research*, 55(8), 6499-6516. doi:10.1029/2019WR025287

Global Reservoir and Dam (GRanD) v1.01 (dams)

Lindström, A., Granit, J., & Weinberg, J. (2012). *Large-scale water storage in the water, energy and food nexus: Perspectives on benefits, risks and best practices*. Retrieved from Stockholm: http://www.siwi.org/documents/Resources/Papers/Water_Storage_Paper_21.pdf

Global Reservoir and Dam (GRanD) v1 (collection)

Liu, D., Bai, Y., He, X., Chen, C.-T. A., Huang, T.-H., Pan, D., . . . Zhang, L. (2020). Changes in riverine organic carbon input to the ocean from mainland China over the past 60 years. *Environment International*, 134, 105258. doi:10.1016/j.envint.2019.105258

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

NASA REMOTE SENSING (MODIS - MCD12Q1)

Liu, S., Chen, J., Li, J., Li, T., Shi, H., & Sivakumar, B. (2023). Building a large dam: identifying the relationship between catchment area and slope using the confidence ellipse approach. *Geoscience Letters*, 10(1), 4. doi:10.1186/s40562-022-00260-9

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Liu, S., Shi, H., Niu, J., Chen, J., & Kuang, X. (2020). Assessing future socioeconomic drought events under a changing climate over the Pearl River basin in South China. *Journal of Hydrology: Regional Studies*, 30, 100700. doi:10.1016/j.ejrh.2020.100700

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Liu, Z., Miao, B., Wang, X., Chen, X., Lin, K., Jaramillo, F., . . . Yao, L. (2023). Compensating effects between climate and underlying characteristics on watershed water loss. *Journal of Geophysical Research: Atmospheres*, 128(6), e2022JD038353. doi:10.1029/2022JD038353

Global Reservoir and Dam (GRanD) v1.01 (dams)

NASA REMOTE SENSING (MODIS)

Lutz, A. F., Immerzeel, W. W., Siderius, C., Wijngaard, R. R., Nepal, S., Shrestha, A. B., . . . Biemans, H. (2022). South Asian agriculture increasingly dependent on meltwater and groundwater. *Nature Climate Change*, 12, 566-573. doi:10.1038/s41558-022-01355-z

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

NASA REMOTE SENSING (MODIS)

MacDonald, M. K., Stadnyk, T. A., Déry, S. J., Braun, M., Gustafsson, D., Isberg, K., & Arheimer, B. (2018). Impacts of 1.5°C and 2.0°C warming on pan-Arctic river discharge into the Hudson Bay Complex through 2070. *Geophysical Research Letters*, 45(15), 7561-7570. doi:10.1029/2018GL079147

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Manawko, W., & Kasiviswanathan, K. S. (2022). A global-scale hydropower potential assessment and feasibility evaluations. *Water Resources and Economics*, 38, 100198. doi:10.1016/j.wre.2022.100198

Global Reservoir and Dam (GRanD) v1.01 (dams)

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Mantovano, T., Bailly, D., Ferreira, J. H. D., de Oliveira da Conceição, E., Cassemiro, F. A. S., de Campos, R., . . . Lansac-Tôha, F. A. (2021). A global analysis of the susceptibility of river basins to invasion of a freshwater zooplankton (*Daphnia lumholtzi*). *Freshwater Biology*, 66(4), 683-698. doi:10.1111/fwb.13670

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Mogollón, B., Frimpong, E. A., Hoegh, A. B., & Angermeier, P. L. (2016). An empirical assessment of which inland floods can be managed. *Journal of Environmental Management*, 167, 38-48. doi:10.1016/j.jenvman.2015.10.044

Global Reservoir and Dam (GRanD) v1 (collection)

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- Journal of the American Water Resources Association*, 52(3), 561-577.
doi:10.1111/1752-1688.12408
Global Reservoir and Dam (GRanD) v1 (collection)
REMOTE SENSING (Landsat)
- Mogollón, B., Villamagna, A. M., Frimpong, E. A., & Angermeier, P. L. (2016). Mapping technological and biophysical capacities of watersheds to regulate floods. *Ecological Indicators*, 61(Part 2), 483-499. doi:10.1016/j.ecolind.2015.09.049
Global Reservoir and Dam (GRanD) v1 (collection)
- Olmstead, S. M., & Sigman, H. (2014). *Damming the Commons: An Empirical Analysis of International Cooperation and Conflict in Dam Location*. Retrieved from Washington DC:
<http://hdl.handle.net/10986/19384>
Gridded Population of the World (GPW) v3 (population density)
Global Reservoir and Dam (GRanD) v1.01 (dams)
- Ounissi, M., & Boucharab, N. (2013). Nutrient distribution and fluxes from three Mediterranean coastal rivers (NE Algeria) under large damming. *Comptes Rendus Geoscience*, 345(2), 81-92.
doi:10.1016/j.crte.2013.02.002
Global Reservoir and Dam (GRanD) v1 (collection)
- Parolari, A. J., & Manoli, G. (2019). Power law growth and delayed feedbacks in socio-hydrological systems. *Earth's Future*, 7(11), 1220-1231. doi:10.1029/2019ef001185
Global Reservoir and Dam (GRanD) v1.01 (reservoirs)
- Partnership for Resilience and Preparedness (PREP). (2018). PREPdata. Retrieved from
<https://www.prepdata.org/>
Energy Infrastructure (Population Exposure Estimates in Proximity to Nuclear Power Plants, Locations)
Spatial Economic Data (Global Gridded Geographically Based Economic Data (G-Econ), v4)
Land Use and Land Cover (LULC) (Global Grid of Probabilities of Urban Expansion to 2030, v1)
Gridded Population of the World (GPW) v4 (population count UN WPP-adjusted)
Global Reservoir and Dam (GRanD) v1 (collection)
Global Roads (Global Roads Open Access Data Set (gROADS), v1)
Satellite-Derived Environmental Indicators (Global Urban Heat Island (UHI) Data Set, v1)
- Phyoe, W. W., & Wang, F. (2019). A review of carbon sink or source effect on artificial reservoirs. *International Journal of Environmental Science and Technology*, 16(4), 2161-2174.
doi:10.1007/s13762-019-02237-2
Global Reservoir and Dam (GRanD) v1 (collection)
- Pöhlker, C., Walter, D., Paulsen, H., Könemann, T., Rodríguez-Caballero, E., Moran-Zuloaga, D., . . . Andreae, M. O. (2019). Land cover and its transformation in the backward trajectory footprint region of the Amazon Tall Tower Observatory. *Atmospheric Chemistry and Physics*, 19(13), 8425-8470. doi:10.5194/acp-19-8425-2019
Gridded Population of the World (GPW) v4.10 (population density)
Global Reservoir and Dam (GRanD) v1.01 (dams)
Global Reservoir and Dam (GRanD) v1.01 (reservoirs)
NASA REMOTE SENSING (ISLSCP-II)

NASA REMOTE SENSING (MODIS - MOD13Q1)
NASA REMOTE SENSING (SRTM)

Politi, E., Rowan, J. S., & Cutler, M. E. J. (2016). Assessing the utility of geospatial technologies to investigate environmental change within lake systems. *Science of The Total Environment*, 543(Part A), 791-806. doi:10.1016/j.scitotenv.2015.09.136

Gridded Population of the World (GPW) v3 (population density)
Global Reservoir and Dam (GRanD) v1.01 (dams)
Global Reservoir and Dam (GRanD) v1.01 (reservoirs)
Global Roads (Global Roads Open Access Data Set (gROADS), v1)
NASA REMOTE SENSING (SRTM)

Qin, Y., Mueller, N. D., Siebert, S., Jackson, R. B., AghaKouchak, A., Zimmerman, J. B., . . . Davis, S. J. (2019). Flexibility and intensity of global water use. *Nature Sustainability*, 2(6), 515-523. doi:10.1038/s41893-019-0294-2

Global Reservoir and Dam (GRanD) v1.01 (dams)

Russ, J. (2018). *Essays on the Impact of Weather on Economic Activity*. (Ph.D.). The George Washington University, Washington DC. Retrieved from <https://scholarspace-etds.library.gwu.edu/etd/vq27zn652>

Gridded Population of the World (GPW) v4 (population count UN WPP-adjusted) - 10.7927/H4SF2T42
GRAND v1 (collection)
NASA REMOTE SENSING (MODIS - MOD17A3)

Sadaoui, M., Ludwig, W., Bourrin, F., & Romero, E. (2018). The impact of reservoir construction on riverine sediment and carbon fluxes to the Mediterranean Sea. *Progress in Oceanography*, 163, 94-111. doi:10.1016/j.pocean.2017.08.003

Global Reservoir and Dam (GRanD) v1.01 (dams)

Scherer, L., & Pfister, S. (2015). *Water Scarcity Footprint of Selected Hydropower Reservoirs*. Retrieved from http://www.world-aluminium.org/media/filer_public/2015/12/02/324-150901-eth_esd_water_footprint_hydropower_final.pdf

<http://www.world-aluminium.org/publications/#860>

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Shen, J., Du, S., Ma, Q., Huang, Q., Wen, J., Yin, Z. e., & Gao, J. (2021). A new multiple return-period framework of flood regulation service—applied in Yangtze River basin. *Ecological Indicators*, 125, 107441. doi:10.1016/j.ecolind.2021.107441

Global Reservoir and Dam (GRanD) v1.01 (dams)

Shen, J., Li, J., Ma, Q., Wang, D., & Du, S. (2023). Response of flood regulation service to land use changes and dam construction—A case study in the Yangtze River Basin. *Ecological Indicators*, 154, 110715. doi:10.1016/j.ecolind.2023.110715

Global Reservoir and Dam (GRanD) v1.01 (dams)

Shi, H., Chen, J., Liu, S., & Sivakumar, B. (2019). The role of large dams in promoting economic development under the pressure of population growth. *Sustainability*, 11(10), 2965.

doi:10.3390/su11102965

Gridded Population of the World (GPW) v3 (population density)

Gridded Population of the World (GPW) v3 (population density future estimates)

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Shin, S., Pokhrel, Y., & Miguez-Macho, G. (2019). High-resolution modeling of reservoir release and storage dynamics at the continental scale. *Water Resources Research*, 55(1), 787-810.

doi:10.1029/2018WR023025

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Slessarev, E. W., Feng, X., Bingham, N. L., & Chadwick, O. A. (2019). Landscape age as a major control on the geography of soil weathering. *Global Biogeochemical Cycles*, 33(12), 1513-1531.

doi:10.1029/2019gb006266

Global Reservoir and Dam (GRanD) v1 (collection)

NASA REMOTE SENSING (MODIS - MOD12)

Stadnyk, T. A., MacDonald, M. K., Tefs, A., Déry, S. J., Koenig, K., Gustafsson, D., . . . Arheimer, B. (2020). Hydrological modeling of freshwater discharge into Hudson Bay using HYPE. *Elementa: Science of the Anthropocene*, 8(1), 43. doi:10.1525/elementa.439

Global Reservoir and Dam (GRanD) v1.01 (dams)

Tan, X., & Gan, T. Y. (2015). Nonstationary analysis of annual maximum streamflow of Canada. *Journal of Climate*, 28(1), 1788-1805. doi:10.1175/JCLI-D-14-00538.1

Global Reservoir and Dam (GRanD) v1 (collection)

Tefs, A. A. G., Stadnyk, T. A., Koenig, K. A., Déry, S. J., MacDonald, M. K., Slota, P., . . . Hamilton, M. (2021). Simulating river regulation and reservoir performance in a continental-scale hydrologic model. *Environmental Modelling & Software*, 141, 105025. doi:10.1016/j.envsoft.2021.105025

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Terui, A., Kim, S., Dolph, C. L., Kadoya, T., & Miyazaki, Y. (2021). Emergent dual scaling of riverine biodiversity. *Proceedings of the National Academy of Sciences*, 118(47), e2105574118.

doi:10.1073/pnas.2105574118

Global Reservoir and Dam (GRanD) v1.01 (dams)

Thorslund, J., Bierkens, M. F. P., Oude Essink, G. H. P., Sutanudjaja, E. H., & van Vliet, M. T. H. (2021). Common irrigation drivers of freshwater salinisation in river basins worldwide. *Nature Communications*, 12(1), 4232. doi:10.1038/s41467-021-24281-8

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Tian, F., Wu, B., Zeng, H., Ahmed, S., Yan, N., White, I., . . . Stein, A. (2020). Identifying the links among poverty, hydroenergy and water use using data mining methods. *Water Resources Management*, 34, 1725-1741. doi:10.1007/s11269-020-02524-5

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Turak, E., Harrison, I., Dudgeon, D., Abell, R., Bush, A., Darwall, W., . . . De Wever, A. (2017). Essential biodiversity variables for measuring change in global freshwater biodiversity. *Biological Conservation*, 213(Part B), 272-279. doi:10.1016/j.biocon.2016.09.005

Global Reservoir and Dam (GRanD) v1 (collection)

Ubierna, M., Santos, C. D., & Mercier-Blais, S. (2022). Water Security and Climate Change: Hydropower Reservoir Greenhouse Gas Emissions. In A. K. Biswas & C. Tortajada (Eds.), *Water Security Under Climate Change* (pp. 69-94). Singapore: Springer Singapore.

Global Reservoir and Dam (GRanD) v1.01 (dams)

Urpelainen, J., Schlenker, W., & Zhang, A. T. (2018). *Power of the River. Introducing the Global Dam Tracker (GDAT)*. Retrieved from New York:
<https://energypolicy.columbia.edu/research/report/power-river-introducing-global-dam-tracker-gdat>

Global Reservoir and Dam (GRanD) v1 (collection)

Vaglietti, G., Pontoni, F., de Carli, A., & Massarutto, A. (2021). The uses and value of water in Italy: Evidence from selected case studies in Italy, with a particular focus on irrigation, industry and hydropower. In P. Turrini, A. Massarutto, M. Pertile, & A. de Carli (Eds.), *Water Law, Policy and Economics in Italy: Between National Autonomy and EU Law Constraints* (pp. 57-79). Cham: Springer International Publishing.

Global Reservoir and Dam (GRanD) v1.01 (dams)

Valero-Jorge, A., González-De Zayas, R., Alcántara-Martín, A., Álvarez-Taboada, F., Matos-Pupo, F., & Brown-Manrique, O. (2022). Water area and volume calculation of two reservoirs in Central Cuba using Remote Sensing Methods. A new perspective. *Revista de Teledetección*, 60, 71-87. doi:10.4995/raet.2022.17770

Global Reservoir and Dam (GRanD) v1.01 (dams)

REMOTE SENSING (Landsat)

REMOTE SENSING (Sentinel-2A)

van Bemmelen, C. W. T., Mann, M., de Ridder, M. P., Rutten, M. M., & van de Giesen, N. C. (2016). Determining water reservoir characteristics with global elevation data. *Geophysical Research Letters*, 43(21), 11278-11286. doi:10.1002/2016GL069816

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

NASA REMOTE SENSING (SRTM)

Van Loon, A. F., Rangelcroft, S., Coxon, G., Breña Naranjo, J. A., Van Ogtrop, F., & Van Lanen, H. A. J. (2019). Using paired catchments to quantify the human influence on hydrological droughts. *Hydrology and Earth System Sciences*, 23(3), 1725-1739. doi:10.5194/hess-23-1725-2019

Global Reservoir and Dam (GRanD) v1.01 (reservoirs) - 10.7927/H4HH6H08

Vanderkelen, I., Gharari, S., Mizukami, N., Clark, M. P., Lawrence, D. M., Swenson, S., . . . Thiery, W. (2022). Evaluating a reservoir parametrization in the vector-based global routing model mizuRoute (v2.0.1) for Earth system model coupling. *Geoscientific Model Development*, 15, 4163-4192. doi:10.5194/gmd-15-4163-2022

Global Reservoir and Dam (GRanD) v1 (collection)

Vanmaercke, M., Poesen, J., Broeckx, J., & Nyssen, J. (2014). Sediment yield in Africa. *Earth-Science Reviews*, 136, 350-368. doi:10.1016/j.earscirev.2014.06.004

Global Reservoir and Dam (GRanD) v1 (collection)

Vora, A., & Singh, R. (2021). Satellite based Budyko framework reveals the human imprint on long-term surface water partitioning across India. *Journal of Hydrology*, 602, 126770. doi:10.1016/j.jhydrol.2021.126770

Anthropogenic Biomes of the World v2 (2000) - 10.7927/H4D798B9

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Walsh, M. G., & Webb, C. (2018). Hydrological features and the ecological niches of mammalian hosts delineate elevated risk for Ross River virus epidemics in anthropogenic landscapes in Australia. *Parasites & Vectors*, 11(1), 192. doi:10.1186/s13071-018-2776-x

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Last of the Wild v2 Global Human Influence Index (Geographic)

Population Dynamics (Global Estimated Net Migration Grids By Decade, v1)

NASA REMOTE SENSING (MODIS)

Wang, J., Sheng, Y., & Wada, Y. (2017). Little impact of Three Gorges Dam on recent decadal lake decline across China's Yangtze Plain. *Water Resources Research*, 53(5), 3854-3877. doi:10.1002/2016WR019817

Global Reservoir and Dam (GRanD) v1.01 (reservoirs) - 10.7927/H4HH6H08

NASA REMOTE SENSING (MODIS)

NASA REMOTE SENSING (GLDAS-2)

Wei, Y., Wu, S., & Tesemma, Z. (2018). Re-orienting technological development for a more sustainable human–environmental relationship. *Current Opinion in Environmental Sustainability*, 33, 151-160. Retrieved from <https://doi.org/10.1016/j.cosust.2018.05.022>

Global Reservoir and Dam (GRanD) v1.01 (dams)

Wild, T. B., Reed, P. M., Loucks, D. P., Mallen-Cooper, M., & Jensen, E. D. (2019). Balancing hydropower development and ecological impacts in the Mekong: Tradeoffs for Sambor Mega Dam. *Journal of Water Resources Planning and Management*, 145(2), 05018019. doi:10.1061/(ASCE)WR.1943-5452.0001036

Global Reservoir and Dam (GRanD) v1.01 (dams) - 10.7927/H4N877QK

Wohlfahrt, G., Tomelleri, E., & Hammerle, A. (2021). The albedo–climate penalty of hydropower reservoirs. *Nature Energy*, 6, 372-377. doi:10.1038/s41560-021-00784-y

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

NASA REMOTE SENSING (MODIS)

Xing, F., Kettner, A. J., Ashton, A., Giosan, L., Ibáñez, C., & Kaplan, J. O. (2014). Fluvial response to climate variations and anthropogenic perturbations for the Ebro River, Spain in the last 4000 years. *Science of The Total Environment*, 473–474, 20-31. doi:10.1016/j.scitotenv.2013.11.083

Global Reservoir and Dam (GRanD) v1 (collection)

Xu, X., Yang, G., Tan, Y., Liu, J., Zhang, S., & Bryan, B. (2020). Unravelling the effects of large-scale ecological programs on ecological rehabilitation of China's Three Gorges Dam. *Journal of Cleaner Production*, 256, 120446. doi:10.1016/j.jclepro.2020.120446

Global Reservoir and Dam (GRanD) v1 (collection)

Yin, J., Gentine, P., Zhou, S., Sullivan, S. C., Wang, R., Zhang, Y., & Guo, S. (2018). Large increase in global storm runoff extremes driven by climate and anthropogenic changes. *Nature Communications*, 9(1), 4389. doi:10.1038/s41467-018-06765-2

Gridded Population of the World (GPW) v4.10 (population density)
Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Yin, S., Gao, G., Huang, A., Li, D., Ran, L., Nawaz, M., . . . Fu, B. (2023). Streamflow and sediment load changes from China's large rivers: Quantitative contributions of climate and human activity factors. *Science of The Total Environment*, 876, 162758. doi:10.1016/j.scitotenv.2023.162758
Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Zampieri, M., Scoccimarro, E., & Gualdi, S. (2015). Trends towards earlier spring runoff in Alps. *Journal of the Black Sea/Mediterranean Environment*, 21(Special Issue), 11-14. Retrieved from http://www.blackmeditjournal.org/pdf/Special_issue_2015.pdf
Global Reservoir and Dam (GRanD) v1 (collection)

Zampieri, M., Scoccimarro, E., Gualdi, S., & Navarra, A. (2015). Observed shift towards earlier spring discharge in the main Alpine rivers. *Science of The Total Environment*, 503-504, 222-232. doi:10.1016/j.scitotenv.2014.06.036
Global Reservoir and Dam (GRanD) v1 (collection)

Zaveri, E., Russ, J., & Damania, R. (2020). Rainfall anomalies are a significant driver of cropland expansion. *Proceedings of the National Academy of Sciences*, 117(19), 10225-10233. doi:10.1073/pnas.1910719117
Gridded Population of the World (GPW) v4 (population count UN WPP-adjusted)
Global Reservoir and Dam (GRanD) v1.01 (dams)
NASA REMOTE SENSING (AVHRR)
NASA REMOTE SENSING (MODIS - MCD12Q1)
REMOTE SENSING (MERIS)
REMOTE SENSING (SPOT VGT)

Zhang, H., Kang, M., Shen, L., Wu, J., Li, J., Du, H., . . . Wei, Q. (2020). Rapid change in Yangtze fisheries and its implications for global freshwater ecosystem management. *Fish and Fisheries*, 21(3), 601-620. doi:10.1111/faf.12449
Global Reservoir and Dam (GRanD) v1.01 (dams)

Zhang, S., Yang, Y., McVicar, T. R., Zhang, L., Yang, D., & Li, X. (2020). A proportionality-based multi-scale catchment water balance model and its global verification. *Journal of Hydrology*, 582, 124446. doi:10.1016/j.jhydrol.2019.124446
Global Reservoir and Dam (GRanD) v1.01 (dams)

Zhang, S., Zhou, L., Zhang, L., Yang, Y., Wei, Z., Zhou, S., . . . Dai, Y. (2022). Reconciling disagreement on global river flood changes in a warming climate. *Nature Climate Change*, 12, 1160-1167. doi:10.1038/s41558-022-01539-7
Global Reservoir and Dam (GRanD) v1.01 (dams)

Zhang, W., Pan, H., Song, C., Ke, L., Wang, J., Ma, R., . . . Wu, Q. (2018). Identifying emerging reservoirs along regulated rivers using multi-source remote sensing observations. *Remote Sensing*, 11(1),

25. doi:10.3390/rs11010025

Global Reservoir and Dam (GRanD) v1.01 (dams)

NASa REMOTE SENSING (MODIS - MOD09A1)

NASA REMOTE SENSING (SRTM)

REMOTE SENSING (Landsat 8 OLI)

Zhao, J., Zhang, Q., Zhu, X., Shen, Z., & Yu, H. (2020). Drought risk assessment in China: evaluation framework and influencing factors. *Geography and Sustainability*, 1(3), 220-228.

doi:10.1016/j.geosus.2020.06.005

Global Agricultural Lands (Cropland)

Global Agricultural Lands (pasture)

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

Zhou, Y. (2020). Exploring multidecadal changes in climate and reservoir storage for assessing nonstationarity in flood peaks and risks worldwide by an integrated frequency analysis approach. *Water Research*, 185, 116265. doi:10.1016/j.watres.2020.116265

Global Reservoir and Dam (GRanD) v1.01 (dams)

Zhou, Y., Dong, J., Cui, Y., Zhou, S., Wang, X., Zou, Z., & Xiao, X. (2022). Rapid surface water expansion due to increasing artificial reservoirs and aquaculture ponds in North China Plain. *Journal of Hydrology*, 608, 127637. doi:10.1016/j.jhydrol.2022.127637

Global Reservoir and Dam (GRanD) v1.01 (reservoirs)

REMOTE SENSING (Landsat)