



River Meandering Models

References

1. Asahi, K., Shimizu, Y., Nelson, J. *et al.* (2013). Numerical simulation of river meandering with self-evolving banks. *J Geophys Res Earth Surf*, 118(4), 2208 – 2229. DOI: [10.1002/jgrf.20150](https://doi.org/10.1002/jgrf.20150)
2. Blanckaert, K. (2011). Hydrodynamic processes in sharp meander bends and their morphological implications. *J Geophys Res*, 116(F1), F01003. DOI: [10.1029/2010JF001806](https://doi.org/10.1029/2010JF001806)
3. Blanckaert, K. and de Vriend, H.J. (2003). Nonlinear modelling of mean flow redistribution in curved open channels. *Water Resour Res*, 39(12), 1375. DOI: [10.1029/2003WR002068](https://doi.org/10.1029/2003WR002068)
4. Blanckaert, K. and de Vriend, H.J. (2010). Meander dynamics: A nonlinear model without curvature restrictions for flow in open-channel beds. *J Geophys Res*, 115(F4), F04011, DOI: [10.1029/2009JF001301](https://doi.org/10.1029/2009JF001301)
5. Camporeale, C., Perucca, E. and Ridolfi, L. (2008). Significance of cutoff in meandering dynamics. *J Geophys Res*, 113(F1), F01001. DOI: [10.1029/2006JF000694](https://doi.org/10.1029/2006JF000694)
6. Crosato, A. (2009). Physical explanations of variations in river meander migration rates from model comparison. *Earth Surf Process Landf*, 34(15), 2078 – 2086. DOI: [10.1002/esp.1898](https://doi.org/10.1002/esp.1898)
7. DINGMAN, S.L. (2009). *Fluvial Hydraulics*. Oxford: Oxford University Press.
8. Duan, J.G. and Julien, P.Y. (2010). Numerical simulation of meandering evolution. *J Hydrol*, 391(1 – 2), 34 – 46. DOI: [10.1016/j.jhydrol.2010.07.005](https://doi.org/10.1016/j.jhydrol.2010.07.005)
9. Eke, E.C., Czapiga, M.J., Viparelli, E. *et al.* (2014). Coevolution of width and sinuosity in meandering rivers. *J Fluid Mech*, 760, 127 – 174. DOI: [10.1017/jfm.2014.556](https://doi.org/10.1017/jfm.2014.556)
10. Frascati, A. and Lanzoni, S. (2009). Morphodynamic regime and long-term evolution of meandering rivers. *J Geophys Res*, 114, F02002. DOI: [10.1029/2008JF001101](https://doi.org/10.1029/2008JF001101)
11. Frascati, A. and Lanzoni, S. (2010). Long-term river meandering as a part of chaotic dynamics? A contribution from mathematical modelling. *Earth Surf Process Landf*, 35(7), 791 – 802. DOI: [10.1002/esp.1974](https://doi.org/10.1002/esp.1974)
12. Howard, A.D. (1983). Simulation model of meandering. *In: Elliott, C.M. (Ed.). Proceedings of the Conference Rivers '83*, Reston: American Society of Civil Engineers.

13. Howard, A.D. and Hemberger, A.T. (1991). Multivariate characterization of meandering. *Geomorphology*, 4(3 – 4), 161 – 186. DOI: [10.1016/0169-555X\(91\)90002-R](https://doi.org/10.1016/0169-555X(91)90002-R)
14. Ikeda, S., Parker, G. and Sawai, K. (1981). Bend theory of river meanders. Part 1. Linear development. *J Fluid Mech*, 112, 363 – 377. DOI: [10.1017/S0022112081000451](https://doi.org/10.1017/S0022112081000451)
15. JULIEN, P.Y. (2018). *River Mechanics*. 2nd edition. Cambridge: Cambridge University Press.
16. Lagasse, P.F., Zevenbergen, L.W., Spitz, W.J. et al. (2004). *Methodology for Predicting Channel Migration*. NCHRP Web Document 67, Washington: Transportation Research Board.
17. Leopold, L.B. and Langbein, W.B. (1966). River meanders. *Sci Am*, 214(6), 60 – 73.
18. Luchi, R., Zolezzi, G. and Tubino, M. (2011). Bend theory of river meanders with spatial width variations. *J Fluid Mech*, 681, 311 – 339. DOI: [10.1017/jfm.2011.200](https://doi.org/10.1017/jfm.2011.200)
19. Perucca, E., Camporeale, C. and Ridolfi, L. (2005). Nonlinear analysis of the geometry of meandering rivers. *Geophys Res Lett*, 32, L03402. DOI: [10.1029/2004GL021966](https://doi.org/10.1029/2004GL021966)
20. Perucca, E., Camporeale, C. and Ridolfi, L. (2007). Significance of the riparian vegetation dynamics on meandering river morphodynamics. *Water Resour Res*, 43(3), W03430. DOI: [10.1029/2006WR005234](https://doi.org/10.1029/2006WR005234)
21. Sun, T., Meakin, P., Jøssang et al. (1996). A simulation model for meandering rivers. *Water Resour Res*, 32(9), 2937 – 2954. DOI: [10.1029/96WR00998](https://doi.org/10.1029/96WR00998)
22. YALIN, M.S. (1992). *River Mechanics*. Oxford: Pergamon Press.
23. Zolezzi, G. and Seminara, G. (2001). Downstream and upstream influence in river meandering. Part 1. General theory and application to overdeepening. *J Fluid Mech*, 438, 183 – 211. DOI: [10.1017/S0022112001004281](https://doi.org/10.1017/S0022112001004281)

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