



**Professor Rachel Flecker**  
**B.A.(Oxon.), Ph.D.(Edin.), PGCertHE**

Professor of Palaeoclimatology

Office G.8N  
University Road,  
Clifton, Bristol BS8 1SS  
([See a map](#))

+44 (0) 117 331 7267  
[r.flecker@bristol.ac.uk](mailto:r.flecker@bristol.ac.uk)

### Summary

Sedimentology, geochemistry, climate modelling, model-data comparison, Mediterranean, Messinian Salinity Crisis

### Biography

- School Education Director for Geographical Sciences
- Network Director for the MC-ITN project MEDGATE;
- Workpackage lead for MC-ITN project PRIDE
- FQT chair for the Science Faculty

### Teaching

Extreme Climates of the past - 3rd year unit - unit convenor

Research Methods in Physical Geography - 2nd year unit - unit convenor

Physical Geography - 1st year unit

### Memberships

#### Organisations

[School of Geographical Sciences](#)

#### Research groups

- [Bristol Research Initiative for the Dynamic Global Environment \(BRIDGE\)](#)

#### Teaching

- [Academic teaching staff](#)

#### Links

-  [PRIDE - Pontocaspian Rise and Demise](#)
-  [MEDGATE - Reconstructing Mediterranean-Atlantic exchange during the Miocene](#)

## Selected publications

- Capella, W, Flecker, R, Hernández-Molina, FJ, Simon, D, Meijer, P, Rogerson, M, Sierro, FJ & Krijgsman, W, 2019, '[Mediterranean isolation preconditioning the Earth System for late Miocene climate cooling](#)'. *Scientific Reports*, vol 9.

[Read more >](#)

## Recent publications

- Meilijson, A, Hilgen, F, Sepúlveda, J, Steinberg, J, Fairbank, V, Flecker, R, Waldmann, ND, Spaulding, SA, Bialik, OM, Boudinot, FG, Illner, P & Makovsky, Y, 2019, '[Chronology with a pinch of salt: Integrated stratigraphy of Messinian evaporites in the deep Eastern Mediterranean reveals long-lasting halite deposition during Atlantic connectivity](#)'. *Earth-Science Reviews*, vol 194., pp. 374-398
- Modestou, S, Gutjahr, M, Schee, Mvd, Ellam, R & Flecker, R, 2019, '[Precessional cyclicity of seawater Pb isotopes in the late Miocene Mediterranean](#)'. *Paleoceanography and Paleoclimatology*.
- Marzocchi, A, Flecker, R, Lunt, DJ, Krijgsman, W & Hilgen, F, 2019, '[Precessional drivers of late Miocene Mediterranean sedimentary sequences: African summer monsoon and Atlantic winter storm tracks](#)'. *Paleoceanography*.
- Tulan, E, Sachsenhofer, R, Tari, G, Flecker, R, Fairbank, VE, Pupp, M & Ickert, R, 2019, '[Source rock potential and depositional environment of the Lower Oligocene ■hsaniye Formation in NW Turkey \(Thrace, Karaburun\)](#)'. *Turkish Journal of Earth Sciences*.
- Krijgsman, W, Tesakov, A, Yanina, T, Lazarev, S, Danukalova, G, van Baak, CG, Agusti, J, Alçiçek, M, Aliyeva, E, Bista, D, Bruch, A, Büyükmeriç, Y, Bukhsianidze, M, Flecker, R, Frolov, P, Hoyle, T, Jorissen, E, Kirscher, U, Koriche, S, Kroonenberg, S, Lordkipanidze, D, Oms, O, Rausch, L, Singarayer, J, Stoica, M, Velde, Svd, Titov, V & Wesselingh, FP, 2019, '[Quaternary time scales for the Pontocaspian domain: Interbasinal connectivity and faunal evolution](#)'. *Earth-Science Reviews*, vol 188., pp. 1-40
- Krijgsman, W, Capella, W, Simon, D, Hilgen, FJ, Kouwenhoven, TJ, Meijer, PT, Sierro, FJ, Tulbure, MA, van den Berg, BC, Schee, Mvd & Flecker, R, 2018, '[The Gibraltar Corridor: Watergate of the Messinian Salinity Crisis](#)'. *Marine Geology*, vol 403., pp. 238-246
- Vincent, S, Guo, L, Flecker, R, Boudagher-Fadel, M, Ellam, R & Kandemir, R, 2018, '[Age constraints on intra-formational unconformities in Upper Jurassic-Lower Cretaceous carbonates in northeast Turkey; geodynamic and hydrocarbon implications](#)'. *Marine and Petroleum Geology*, vol 91., pp. 639-657
- Capella, W, Barhoun, N, Flecker, R, Hilgen, FJ, Kouwenhoven, T, Matenco, LC, Sierro, FJ, Tulbure, MA, Yousfi, MZ & Krijgsman, W, 2018, '[Palaeogeographic evolution of the late Miocene Rifian Corridor \(Morocco\): Reconstructions from surface and subsurface data](#)'. *Earth-Science Reviews*, vol 180., pp. 37-59
- Capella, W, Barhoun, N, Flecker, R, Hilgen, FJ, Kouwenhoven, T, Matenco, LC, Sierro, FJ, Tulbure, MA, Yousfi, MZ & Krijgsman, W, 2018, '[Data on lithofacies, sedimentology and palaeontology of South Rifian Corridor sections \(Morocco\)](#)'. *Data in Brief*, vol 19., pp. 712-736

[View complete publications list](#) in the University of Bristol publications system