Reference list Lecture G. Weedon:

Abdi, H., 2007. The Bonferroni and Sidak corrections for multiple comparisons. In: *Encyclopedia of Measurement and Statistics*, Ed: Salkind, N., Sage, pp 103-112.

Benjamini, Y. & Hochberg, Y., 1995. Controlling the false-discovery rate: a practical and powerful approach to multiple frequency testing. *Journal of the Royal Statistical Society*, B57, 289-300, doi: 10.1016/S1066-4328(0)00297-2.

Bloomfield, P., 1976. *Fourier Analysis of Time Series: An Introduction*. Wiley.

Davis, J.C., 1973. *Statistics and Data Analysis in Geology*. Wiley.

Hopkins, A.M., Miller, C.J., Connolly, A.J., Genovese, C., Nichol, R.C., Wasserman, L., 2002. A new source detection algorithm using the false-discovery rate. *Astronomical Journal*, 123, 1086-1094, doi: 10.1086/338316.

Huybers, 2022. Putting the significance of spectral peaks on the level: implications for the 1470-yr peak in Greenland δ^{18}O. *Journal of Climate*, 35, 4147-4155, doi: 10.1175/JCLI-D-22-0011.1.

Li, M., Kump, L.R., Hinnov, L.A. & Mann, M.E., 2018. Tracking variable sedimentation rates and astronomical forcing in Phanerozoic paleoclimate proxy series with evolutionary correlation coefficients and hypothesis testing. *Earth and Planetary Science Letters*, 501, 165-179, https://doi.org/10.1016/j.epsl/2018.08.041.

Li, M., Hinnov, L., Kump, L., 2019. Acycle: Time-series analysis software for paleoclimate research and education. *Computers and Geosciences*, 127, 12-22, doi: 10.1016/j.cageo.2019.02.011.

Malinverno, A. & Meyers, S.R., 2024. Bayesian estimation of past astronomical frequencies, lunar distance, and length of day from sediment cycles. *Geochemistry, Geophysics, Geosystems*, 25, e2023GC011176, https://doi.org/10.1029/2023GC011176

Mann, M.E. & Lees, J.M., 1996. Robust estimation of background noise and signal detection in climatic time series. *Climate Change*, 33, 409-445, doi: 10.1007/BF00142586.

Meyers, S.R. & Sageman, B.B., 2007. Quantification of deep-time orbital forcing by average spectral misfit. *American Journal of Science*, 307, 773-792, doi: 10.2475/05.2007.01.

Meyers, S.R., 2012. Seeing red in cyclic stratigraphy: spectral noise estimation for astrochronology. *Paleoceanography*, 27, doi: 10.1029/2012PA002307.

Meyers, S.R. 2014. Astrochron: an R package for astrochronology https://cran.rproject.org/web/packages/astrochron/index.html

Miller, C.J. et al., 2001. Controlling the false-discovery rate in astrophysical data analysis. *Astronomical Journal*, 122, 3492-3505, doi: 10.1086/324109

Mudelsee, M., 2010. *Climate Time Series Analysis. Classical and Bootstrap methods*, Springer.

Priestley, M.B., 1981. *Spectral Analysis and Time Series*, Academic Press.

Schulz, M. and Mudelsee, M., 2002. REDFIT: estimating red-noise spectra directly from unevenly spaced paleoclimatic time series. *Computers & Geosciences* 28, 421-426, https://doi.org/10.1016/S0098-3004(01)00044-9.

Smith, D.G., 2023. The orbital cycle factor: sixty cyclostratigraphic spectra in need of re-evaluation. *Palaeogeography Palaeoecology Palaeoclimatology*, 628, 111733, doi: 10.1016/j.palaeo.2023.111744.

Vaughan, S., Bailey, R.J. & Smith, D.G., 2011. Detecting cycles in stratigraphic data: spectral analysis in the presence of red noise. *Paleoceanography*, 26, doi: 10.1029/2011PA002195.

Vaughan, S., Bailey, R.J. & Smith, D.G., 2015. Cyclostratigraphy: data filtering as a source of spurious spectral peaks. In: *Strata and Time: Probing the gaps in our understanding*., eds: Smith, D.G., Bailey, R.J. Burgess, P.M. & Fraser, A.J., Geological Society of London, UK, pp151-156, doi: 10.1144/SP404.11.

Weedon, G.P., 2003. *Time-Series Analysis and Cyclostratigraphy*. Examining stratigraphic records of environmental cycles. Cambridge University Press.

Weedon, G.P., Page, K.N. & Jenkyns, H.C., 2019. Cyclostratigraphy, stratigraphic gaps and the duration of the Hettangian Stage (Jurassic): insights from the Blue Lias Formation of southern Britain. *Geological Magazine*, 156, 1469-1509, doi: 10.1017/S0016756818000808.

Weedon, G.P., 2020. Confirmed detection of Palaeogene and Jurassic orbitally-forced sedimentary cycles in the depth domain using False Discovery Rates and Bayesian probability spectra. *Boletin Geologico y Minero*, 131, 207-230, doi: 10.21701/bolgeomin.131.2.001

Weedon, G.P., 2022a. Problems with the current practice of spectral analysis in cyclostratigraphy: avoiding false detection of regular cyclicity. *Earth-Science Reviews*, 235, doi: 10.1016/j.earscirev.2022.104261.

Weedon, G.P., 2022b. Cyclostratigraphy: regular cycles detected and counted to measure time. In: *Deciphering Earth's History*, Ed. A.L. Coe, Geological Society, London pp161-179.