**Reading list**

**JULES model**

Clark, D.B., Mercado, L.M., Sitch, S., Jones, C.D., Gedney, N., Best, M.J., Pryor, M., Rooney, G.G., Essery, R.L.H., Blyth, E. and Boucher, O., 2011. The Joint UK Land Environment Simulator (JULES), model description—Part 2: carbon fluxes and vegetation dynamics. *Geoscientific Model Development*, *4*(3), pp.701-722.

Freely available from: https://www.geosci-model-dev.net/4/701/2011/gmd-4-701-2011.html

Clark, D.B., Mercado, L.M., Sitch, S., Jones, C.D., Gedney, N., Best, M.J., Pryor, M., Rooney, G.G., Essery, R.L.H., Blyth, E. and Boucher, O., 2011. The Joint UK Land Environment Simulator (JULES), model description—Part 2: carbon fluxes and vegetation dynamics. *Geoscientific Model Development*, *4*(3), pp.701-722.

Freely available from: https://www.geosci-model-dev.net/4/677/2011/gmd-4-677-2011.html

**WRSI calculation**

McNally, A., Husak, G.J., Brown, M., Carroll, M., Funk, C., Yatheendradas, S., Arsenault, K., Peters-Lidard, C. and Verdin, J.P., 2015. Calculating crop water requirement satisfaction in the West Africa Sahel with remotely sensed soil moisture. *Journal of Hydrometeorology*, *16*(1), pp.295-305.

Freely available from https://journals.ametsoc.org/doi/full/10.1175/JHM-D-14-0049.1

**Practical details about how to calculate soil moisture deficit and WRSI [Note that the exact method for calculation of WRSI differs from this reference, but it is nevertheless an excellent introduction to crop water requirement]**

Brouwer, C. and Heibloem, M., 1986. Irrigation water management: Irrigation water needs. *FAO Training manual*, *3*.

Freely available from http://www.fao.org/3/s2022e/s2022e00.htm#Contents