**S2. TRY Database Trait References**

Campetella, G., Botta-Dukát, Z., Wellstein, C., Canullo, R., Gatto, S., Chelli, S., … Bartha, S. (2011). Patterns of plant trait–environment relationships along a forest succession chronosequence. *Agriculture, Ecosystems & Environment*, *145*(1), 38–48.

Cerabolini, B., Ceriani, R. M., Caccianiga, M., De Andreis, R., & Raimondi, B. (2003). Seed size, shape and persistence in soil: a test on Italian flora from Alps to Mediterranean coasts. *Seed Science Research*, *13*(1), 75–85.

Choat, B., Jansen, S., Brodribb, T. J., Cochard, H., Delzon, S., Bhaskar, R., … Hacke, U. G. (2012). Global convergence in the vulnerability of forests to drought. *Nature*, *491*(7426), 752.

Ciocorlan, V. (n.d.). The illustrated flora of Romania, Pteridophyta et Spermatophyta. The reviewed second edition. *Ceres Bucuresti Editure*, 14–30.

Cornelissen, J. H. C. (1996). An experimental comparison of leaf decomposition rates in a wide range of temperate plant species and types. *Journal of Ecology*, 573–582.

Cornelissen, J. H. C., Cerabolini, B., Castro‐Díez, P., Villar‐Salvador, P., Montserrat‐Martí, G., Puyravaud, J. P., … Aerts, R. (2003). Functional traits of woody plants: correspondence of species rankings between field adults and laboratory‐grown seedlings? *Journal of Vegetation Science*, *14*(3), 311–322.

Cornelissen, J. H. C., Diez, P. C., & Hunt, R. (1996). Seedling growth, allocation and leaf attributes in a wide range of woody plant species and types. *Journal of Ecology*, 755–765.

Cornelissen, J. H. C., Quested, H. M., Gwynn‐Jones, D., Van Logtestijn, R. S. P., De Beus, M. A. H., Kondratchuk, A., … Aerts, R. (2004). Leaf digestibility and litter decomposability are related in a wide range of subarctic plant species and types. *Functional Ecology*, *18*(6), 779–786.

Dainese, M., & Bragazza, L. (2012). Plant traits across different habitats of the Italian Alps: a comparative analysis between native and alien species. *Alpine Botany*, *122*(1), 11–21.

Diaz, S., Hodgson, J. G., Thompson, K., Cabido, M., Cornelissen, J. H. C. 3, Jalili, A., … Asri, Y. (2004). The plant traits that drive ecosystems: evidence from three continents. *Journal of Vegetation Science*, *15*(3), 295–304.

Everwand, G., Fry, E. L., Eggers, T., & Manning, P. (2014). Seasonal variation in the capacity for plant trait measures to predict grassland carbon and water fluxes. *Ecosystems*, *17*(6), 1095–1108.

Fischer, M. A., Adler, W., & Oswald, K. (2005). *Exkursionsflora für Österreich, Liechtenstein und Südtirol: Bestimmungsbuch für alle in der Republik Österreich, in der Autonomen Provinz Bozen/Südtirol (Italien) und im Fürstentum Liechtenstein wildwachsenden sowie die wichtigsten kultivierten Gefässpflanzen (Farnpflanzen und Samenpflanzen) mit Angaben über ihre Ökologie und Verbreitung*. Land Oberösterreich.

Fitter, A. H., & Peat, H. J. (1994). The ecological flora database. *Journal of Ecology*, *82*(2), 415–425.

Fry, E. L., Power, S. A., & Manning, P. (2014). Trait‐based classification and manipulation of plant functional groups for biodiversity–ecosystem function experiments. *Journal of Vegetation Science*, *25*(1), 248–261.

Gachet, S., Errol, V., & Tatoni, T. (2005). BASECO: a floristic and ecological database of Mediterranean French flora. *Biodiversity & Conservation*, *14*(4), 1023–1034.

Garnier, E., Lavorel, S., Ansquer, P., Castro, H., Cruz, P., Dolezal, J., … Golodets, C. (2006). Assessing the effects of land-use change on plant traits, communities and ecosystem functioning in grasslands: a standardized methodology and lessons from an application to 11 European sites. *Annals of Botany*, *99*(5), 967–985.

Green, W. (2009). USDA PLANTS compilation, version 1. *NRCS: The PLANTS Database*.

Hegi, G. (2008). *Illustrierte Flora von Mitteleuropa*. Jena, Germany: Weissdorn.

Henrik Bruun, H., Österdahl, S., Moen, J., & Angerbjörn, A. (2005). Distinct patterns in alpine vegetation around dens of the Arctic fox. *Ecography*, *28*(1), 81–87.

Hickler, T. (1999). Plant functional types and community characteristics along environmental gradients on Oland’s Great Alvar (Sweden). *Sweden: University of Lund*.

Hill, M. O., Preston, C. D., & Roy, D. B. (2004). *PLANTATT-attributes of British and Irish plants: status, size, life history, geography and habitats*. Centre for Ecology & Hydrology.

Hintze, C., Heydel, F., Hoppe, C., Cunze, S., König, A., & Tackenberg, O. (2013). D3: the dispersal and diaspore database–baseline data and statistics on seed dispersal. *Perspectives in Plant Ecology, Evolution and Systematics*, *15*(3), 180–192.

Kattge, J., Díaz, S., Lavorel, S., Prentice, I. C., Leadley, P., Bönisch, G., … Wirth, C. (2011). TRY - a global database of plant traits. *Global Change Biology*, *17*(9), 2905–2935. http://doi.org/10.1111/j.1365-2486.2011.02451.x

Kew, R. B. G. (2008). Seed information database (SID). Version 7.1.

Kleyer, M., Bekker, R. M., Knevel, I. C., Bakker, J. P., Thompson, K., Sonnenschein, M., … Klimešová, J. (2008). The LEDA Traitbase: a database of life‐history traits of the Northwest European flora. *Journal of Ecology*, *96*(6), 1266–1274.

Klimešová, J., & De Bello, F. (2009). CLO‐PLA: the database of clonal and bud bank traits of Central European flora §. *Journal of Vegetation Science*, *20*(3), 511–516.

Kühn, I., Durka, W., & Klotz, S. (2004). BiolFlor — a new plant-trait database as a tool for plant invasion ecology. *Diversity and Distributions*, *10*(5‐6), 363–365. http://doi.org/10.1111/j.1366-9516.2004.00106.x

Kutschera, L., & Lichtenegger, E. (1982). *Wurzelatlas mitteleuropäischer Grünlandpflanzen* (Vol. 1). Stuttgart: Gustav Fischer.

Landolt, E., Bäumler, B., Erhardt, A., Hegg, O., Klötzli, F., Lämmler, W., … Theurillat, J.-P. (2010). *Flora indicativa= Ecological inicator values and biological attributes of the flora of Switzerland and the Alps: ökologische Zeigerwerte und biologische Kennzeichen zur Flora der Schweiz und der Alpen*. Haupt Verlag.

Medlyn, B. E., Barton, C. V. M., Broadmeadow, M. S. J., Ceulemans, R., De Angelis, P., Forstreuter, M., … Laitat, E. (2001). Stomatal conductance of forest species after long‐term exposure to elevated CO2 concentration: a synthesis. *New Phytologist*, *149*(2), 247–264.

Milla, R., & Reich, P. B. (2011). Multi-trait interactions, not phylogeny, fine-tune leaf size reduction with increasing altitude. *Annals of Botany*, *107*(3), 455–465.

Minden, V., Andratschke, S., Spalke, J., Timmermann, H., & Kleyer, M. (2012). Plant trait–environment relationships in salt marshes: Deviations from predictions by ecological concepts. *Perspectives in Plant Ecology, Evolution and Systematics*, *14*(3), 183–192. http://doi.org/https://doi.org/10.1016/j.ppees.2012.01.002

Moretti, M., & Legg, C. (2009). Combining plant and animal traits to assess community functional responses to disturbance. *Ecography*, *32*(2), 299–309.

Müller-Schneider, P. (1986). *Verbreitungsbiologie der Blütenpflanzen Graubündens* (Vol. 85). Geobotanisches Institut der ETH, Stiftung Rübel.

Ordonez, J. C., van Bodegom, P. M., Witte, J.-P. M., Bartholomeus, R. P., van Hal, J. R., & Aerts, R. (2009). Plant strategies in relation to resource supply in mesic to wet environments: does theory mirror nature? *The American Naturalist*, *175*(2), 225–239.

Paula, S., Arianoutsou, M., Kazanis, D., Tavsanoglu, Ç., Lloret, F., Buhk, C., … Rodrigo, A. (2009). Fire‐related traits for plant species of the Mediterranean Basin. *Ecology*, *90*(5), 1420.

Pluess, A. R., Schütz, W., & Stöcklin, J. (2005). Seed weight increases with altitude in the Swiss Alps between related species but not among populations of individual species. *Oecologia*, *144*(1), 55–61.

Prentice, I. C., Meng, T., Wang, H., Harrison, S. P., Ni, J., & Wang, G. (2011). Evidence of a universal scaling relationship for leaf CO2 drawdown along an aridity gradient. *New Phytologist*, *190*(1), 169–180.

Quested, H. M., Cornelissen, J. H. C., Press, M. C., Callaghan, T. V, Aerts, R., Trosien, F., … Jonasson, S. E. (2003). Decomposition of sub‐arctic plants with differing nitrogen economies: a functional role for hemiparasites. *Ecology*, *84*(12), 3209–3221.

Römermann, C., Tackenberg, O., & Poschlod, P. (2005). How to predict attachment potential of seeds to sheep and cattle coat from simple morphological seed traits. *Oikos*, *110*(2), 219–230.

Rothmaler, W. (2002). *Exkursionsflora von Deutschland* (9th ed.). Heidelberg: Spektrum Akademischer.

Schröter, C., Brockmann-Jerosch, M. C., Günthart, A., & Vogler, P. (1926). *Das Pflanzenleben der Alpen: eine schilderung der hochgebirgsflora*. A. Raustein.

Schweingruber, F. H., & Landolt, W. (2005). The xylem database. *Swiss Federal Research Institute WSL Updated*.

Spasojevic, M. J., & Suding, K. N. (2012). Inferring community assembly mechanisms from functional diversity patterns: the importance of multiple assembly processes. *Journal of Ecology*, *100*(3), 652–661.

Tackenberg, O. (2001). Methoden zur Bewertung gradueller unterschiede des Ausbreitungspotentials von Pflanzenarten.

Tamme, R., Götzenberger, L., Zobel, M., Bullock, J. M., Hooftman, D. A. P., Kaasik, A., & Pärtel, M. (2014). Predicting species’ maximum dispersal distances from simple plant traits. *Ecology*, *95*(2), 505–513.

Thompson, K., Band, S. R., & Hodgson, J. G. (1993). Seed size and shape predict persistence in soil. *Functional Ecology*, 236–241.

Wirth, C., & Lichstein, J. W. (2009). The Imprint of Species Turnover on Old-Growth Forest Carbon Balances - Insights From a Trait-Based Model of Forest Dynamics BT  - Old-Growth Forests: Function, Fate and Value. In C. Wirth, G. Gleixner, & M. Heimann (Eds.), (pp. 81–113). Berlin, Heidelberg: Springer Berlin Heidelberg. http://doi.org/10.1007/978-3-540-92706-8\_5

Wohlfahrt, G., Bahn, M., Haubner, E., Horak, I., Michaeler, W., Rottmar, K., … Cernusca, A. (1999). Inter‐specific variation of the biochemical limitation to photosynthesis and related leaf traits of 30 species from mountain grassland ecosystems under different land use. *Plant, Cell & Environment*, *22*(10), 1281–1296.

Wright, I. J., Reich, P. B., Westoby, M., Ackerly, D. D., Baruch, Z., Bongers, F., … Villar, R. (2004). The worldwide leaf economics spectrum. *Nature*, *428*, 821. Retrieved from https://doi.org/10.1038/nature02403