**Supporting Information for**

***The COMPADRE Plant Matrix Database***

***an Open Online Repository for Plant Demography***

Roberto Salguero-Gómez, Owen R. Jones, C. Ruth Archer, Yvonne M. Buckley, Judy Che-Castaldo, Hal Caswell, David Hodgson, Alexander Scheuerlein, Dalia A. Conde, Erik Brinks, Hendrik de Buhr, Fränce Gottschalk, Claudia Farack, Alexander Hartmann, Anne Henning, Gabriel Hoppe, Gesa Römer, Jens Runge, Tara Ruoff, Julia Wille, Stefan Zeh, Dirk Vieregg, Raziel Davison, Annette Baudisch, Res Altwegg, Fernando Colchero, Ming Dong, Hans de Kroon, Jean-Dominique Lebreton, Jessica C. Metcalf, Maile Neel, Ingrid Parker, Bernt-Erik Sæther, Takenori Takada, Teresa Valverde, Luis Antonio Vélez-Espino, Glenda M. Wardle, Miguel Franco & James W. Vaupel

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# Appendix S1. Constituents of COMPADRE

The COMPADRE Plant Matrix Database is developed and supported by two committees and a digitization team. Their constituent members, whose tenure is revisited every two years, are located worldwide, assuring that COMPADRE reaches all continents, and that published information is sent back to COMPADRE from white and gray literature.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Member** | **Institution** | **Country** |
| Core committee | Roberto Salguero-Gómez | University of Queensland  Max Planck Institute for Demographic Research (MPIDR)  Trinity College Dublin | Australia  Germany  Ireland |
| Owen Jones | University of Southern Denmark | Denmark |
| Yvonne Buckley | Trinity College Dublin  University of Queensland | Ireland  Australia |
| Judy Che-Castaldo | National Socio-Environmental Synthesis Center (SESYNC) | USA |
| Dalia Conde | University of Southern Denmark | Denmark |
| David Hodgson | University of Exeter | UK |
| Alexander Scheuerlein | MPIDR | Germany |
| Hal Caswell | Woods Hole Oceanographic Institute  MPIDR  University of Amsterdam | USA  Germany  The Netherlands |
| James Vaupel | MPIDR  Duke University  University of Southern Denmark | Germany  USA  Denmark |
| Science committee | Res Altwegg | University of Cape Town | South Africa |
| Fernando Colchero | University of Southern Denmark | Denmark |
| Ming Dong | The Chinese Academy of Sciences | China |
| Miguel Franco | University of Plymouth | UK |
| Hans de Kroon | Radboud University | The Netherlands |
| Jean-Dominique Lebreton | Centre National de la Recherche Scientifique | France |
| Jessica Metcalf | Princeton University | UK |
| Maile Neel | University of Maryland | USA |
| Ingrid Parker | University of California Santa Cruz | USA |
| Bernt-Erik Sæther | Norwegian University of Science and Technology | Norway |
| Juan Silva | Universidad de los Andes | Venezuela |
| Jonathan Silvertown | Open University | UK |
| Takenori Takada | Hokkaido University | Japan |
| Teresa Valverde | Universidad Nacional Autonoma de Mexico | Mexico |
| Luis Antonio Velez-Espino | Fisheries and Oceans Canada | Canada |
| Glenda Wardle | University of Sydney | Australia |
| Digitization team | Ruth Archer | MPIDR | Germany |
| Hendrik de Buhr | MPIDR | Germany |
| Fränce Gottschalk | MPIDR | Germany |
| Claudia Farack | MPIDR | Germany |
| Alexander Hartmann | MPIDR | Germany |
| Anna Henning | MPIDR | Germany |
| Gesa Römer | MPIDR | Germany |
| Tara Ruoff | University of Maryland | USA |
| Julia Wille | MPIDR | Germany |
| Stefan Zeh | MPIDR | Germany |
| Past compadrinos: Erik Brinks (MPIDR), Gabriela Cosma (University of Pennsylvania), Elisabeth McCuaig (University of Pennsylvania), Vuong Nguyen (University of Sydney). Henry Tai (University of Pennsylvania), Bonnie Waring (University of Pennsylvania), and Angela Zeng (University of Pennsylvania) | | |

# Appendix S2. COMPADRE user’s guide

The COMPADRE Plant Matrix Database user’s guide, which contains all the variables available in COMPADRE, the organization of the “*COMPADRE Data\_MONTH\_DAY\_YEAR.csv* file, and the range of options for each variable, is available here:

<http://www.compadre-db.org/Download/guide.pdf>

# Appendix S3. COMPADRE *R* scripts

The COMPADRE Plant Matrix Database team wishes to make publicly available the following *R* scripts as a service to the community. The usage of these materials is at the user’s discretion and responsibility. Regrettably, no member of the COMPADRE team holds a grant to provide technical support on their implementation. Various textbooks (Caswell, 2001; Morris & Doak, 2002) and *R* libraries (Metcalf et al., 2013; Stubben 2007; Stott et al., 2012) have been developed for these purposes. Nonetheless, we trust that the commented *R* scripts below will be of help to the community. Next to their name, and brief description, the user can find the URL for download.

<https://github.com/jonesor/compadreDB/tree/master/Scripts>

* *COMPADRE\_Update\_Taxonomy\_TPL.R*: script to update the taxonomy with the names used by the authors (see Table 1, *SpeciesAuthor* variable) based on the *R* library Taxonstand (http://cran.r-project.org/web/packages/Taxonstand/index.html).
* *subsettingCOMPADRE.R*: script to implement basic conditional searches on the matrices, to perform basic MPM manipulations, and to obtain basic demographic output from them based on methodologies developed by some of the coauthors and elsewhere (Cochran & Ellner 1992; Caswell 2001; Metcalf et al., 2013; Stubben 2007; Stott et al., 2012).
* *COMPADRE\_Author\_Citations.R*: script to generate full citations based on the variable DOI/ISBN (See Table 1) using the *R* libraries *rmetadata* (<https://github.com/ropensci/rmetadata>), *ropensci* (<http://ropensci.org>) and *rplos* (<https://github.com/ropensci/rplos>). See also Supporting Information Appendix S4.

# Appendix S4. Extended literature used in COMPADRE 3.0

Below we provide the full list of citations used in the information compiled in the first release of COMPADRE (3.0). Users of these materials are strongly encouraged to credit the work of the specific studies by citing the publications whose information they may use.

The name “*SpeciesAuthor*” corresponds to the exact taxonomic name used by the author in the publication, as detailed in Table 1, with a sequential numerical suffix if more than one study exists for the same species (e.g. *Rhododendron\_ponticum, Rhododendron\_ponticum\_2*).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***SpeciesAuthor*** | ***Authors*** | | ***Journal*** | ***YearPublication*** | ***DOI.ISBN*** |
| 1 | *Abies\_concolor* | van Mantgem; Stephenson | | *J Ecol* | 2005 | 0.1111/j.1365-2745.2005.01007.x |
| 2 | *Abies\_homolepis* | Nakashizuka | | *J Veg Sci* | 1991 | 10.1658/1100-9233(2007)18[379:VIJSAR]2.0.CO;2 |
| 3 | *Abies\_magnifica* | van Mantgem; Stephenson | | *J Ecol* | 2005 | 0.1111/j.1365-2745.2005.01007.x |
| 4 | *Abies\_sachalinensis* | Kubota | | *Eco Research* | 1997 | 10.1007/BF02523604 |
| 5 | *Abies\_sachalinensis\_2* | Hiura; Fujiwara | | *J Veg Sci* | 1999 | 10.2307/3237309 |
| 6 | *Abutilon\_theophrasti* | Westerman; Liebman; Menalled; Heggenstaller | | *Weed Sci* | 2005 | 10.3719/weed.50.60 |
| 7 | *Acacia\_aneura* | Rosenberg; Boland; Tiver; Watson | | *Internet* | NA | None |
| 8 | *Acacia\_bilimekii* | Jiménez-Lobato; Valverde | | *J Arid Env* | 2006 | 10.1016/j.jaridenv.2005.07.002 |
| 9 | *Acacia\_pennatula* | Somarriba | | *Agrofor Syst* | 2012 | 10.1007/s10457-011-9447-7 |
| 10 | *Acacia\_victoriae* | Grice; Westoby; Torpy | | *Austral Ecol* | 1994 | 10.1111/j.1442-9993.1994.tb01537.x |
| 11 | *Acer\_amoenum* | Tanaka; Shibata; Masaki; Iida; Niiyama; Abe; Kominomi; Nokashizuka | | *J Veg Sci* | 2008 | 10.3170/2007-8-18342 |
| 12 | *Acer\_mono* | Tanaka; Shibata; Masaki; Iida; Niiyama; Abe; Kominomi; Nokashizuka | | *J Veg Sci* | 2008 | 10.3170/2007-8-18342 |
| 13 | *Acer\_rufinerve* | Tanaka; Shibata; Masaki; Iida; Niiyama; Abe; Kominami; Nokashizuka | | *J Veg Sci* | 2008 | 10.3170/2007-8-18342 |
| 14 | *Acer\_saccharum* | Lin; Augspurger | | *Forest Ecol Manag* | 2008 | 10.1016/j.foreco.2008.02.040 |
| 15 | *Achillea\_millefolium* | Fréville; Silvertown | | *Plant Ecol* | 2005 | 10.1007/s11258-004-0017-1 |
| 16 | *Achnatherum\_calamagrostis* | Guardia; Raventos; Caswell | | *J Ecol* | 2000 | 10.1046/j.1365-2745.2000.00504.x |
| 17 | *Aconitum\_noveboracense\_2* | Easterling; Ellner; Dixon | | *Ecology* | 2000 | 10.1890/0012-9658(2000)081[0694:SSSAAN]2.0.CO;2 |
| 18 | *Actaea\_elata* | Mayberry; Elle | | *Oecologia* | 2010 | 10.1007/s00442-010-1809-8 |
| 19 | *Actaea\_spicata* | Fröborg; Eriksson | | *Can J Bot* | 2003 | 10.1139/B03-099 |
| 20 | *Actinostemon\_concolor* | Bianchini; de Araújo; Green; Pimenta | | *Braz Arch Biol Technol* | 2013 | http://dx.doi.org/10.1590/S1516-89132013000100009Ê |
| 21 | *Adenocarpus\_gibbsianus* | Iriondo; Albert; Giménez; Lozano; Escudero | | *Book* | 2009 | 978-84-8014-746-0 |
| 22 | *Adenophora\_lobophylla* | Wenhui; Yuangang | | *J For Res* | 1998 | 10.1007/BF02856444 |
| 23 | *Adenophora\_potaninii* | Wenhui; Yuangang | | *J For Res* | 1998 | 10.1007/BF02856444 |
| 24 | *Adesmia\_volckmanni* | Cipriotti; Aguiar | | *Appl Veg Sci* | 2012 | 10.1111/j.1654-109X.2011.01138.x |
| 25 | *Aechmea\_magdalenae* | Ticktin; Nantel | | *Biol Cons* | 2004 | 10.1016/j.biocon.2004.03.019 |
| 26 | *Aechmea\_nudicaulis* | Sampaio; Pico; Scarano | | *Am J Bot* | 2005 | 10.3732/ajb.92.4.674 |
| 27 | *Aeschynomene\_virginica* | Griffith; Forseth | | *Ecol Appl* | 2005 | 10.1890/02-5219 |
| 28 | *Aesculus\_turbinata* | Kaneko; Takada; Kawano | | *Plant Spp Biol* | 1999 | 10.1046/j.1442-1984.1999.00007.x |
| 29 | *Agave\_marmorata* | Jiménez-Valdés; Godínez-Alvarez; Caballero; Lira | | *Econ Bot* | 2010 | 10.1007/s12231-010-9117-0 |
| 30 | *Agrimonia\_eupatoria* | Kiviniemi | | *Plant Ecol* | 2002 | None |
| 31 | *Agropyron\_cristatum* | Hansen; Wilson | | *J Appl Ecol* | 2006 | 10.1111/j.1365-2664.2006.01145.x |
| 32 | *Ailanthus\_altissima* | Burns; Pardini; Schutzenhofer; Chung; Seidler; Knight | | *Ecology* | 2013 | 10.1890/12-1310.1 |
| 33 | *Ailanthus\_altissima\_2* | Bullock; White; Prudhomme; Tansey; Perea; Hooftman | | *J Ecol* | 2012 | 10.1111/j.1365-2745.2011.01910.x |
| 34 | *Alaria \_nana* | Pfister; Wang | | *Ecology* | 2005 | 10.1890/04-1952 |
| 35 | *Alliaria\_petiolata* | Meekins; McCarthy | | *Am Mid Nat* | 2002 | 10.1674/0003-0031(2002)147[0256:EOPDOT]2.0.CO;2 |
| 36 | *Alliaria\_petiolata\_2* | | |  | NA | None |
| 37 | *Alliaria\_petiolata\_3* | | Burns; Pardini; Schutzenhofer; Chung; Seidler; Knight | *Ecology* | 2013 | 10.1890/12-1310.1 |
| 38 | *Alliaria\_petiolata\_4* | | Evans; Davis; Raghu; Ragavendran; Landis; Schemske | *Ecol Appl* | 2012 | 10.1890/11-1291.1 |
| 39 | *Allium\_monanthum* | | Kawano; Takada; Nakayama; Hiratsuka | *Book* | 1987 | None |
| 40 | *Allium\_monanthum\_2* | | Kawano; Takada; Nakayama; Hiratsuka | *Book* | 1987 | None |
| 41 | *Allium\_sativum* | | Burns; Pardini; Schutzenhofer; Chung; Seidler; Knight | *Ecology* | 2013 | 10.1890/12-1310.1 |
| 42 | *Allium\_tricoccum* | | Nault; Gagnon | *J Ecol* | 1993 | 10.2307/2261228 |
| 43 | *Allium\_vineale* | | Burns; Pardini; Schutzenhofer; Chung; Seidler; Knight | *Ecology* | 2013 | 10.1890/12-1310.1 |
| 44 | *Alnus\_incana\_subsp.\_rugosa* | | Huenneke; Marks | *Ecology* | 1987 | 10.2307/1939207 |
| 45 | *Ambrosia\_deltoidea* | | Goldberg; Turner | *Ecology* | 1986 | 10.2307/1937693 |
| 46 | *Ambrosia\_dumosa* | | Miriti; Wright; Howe | *Ecol Monog* | 2001 | 10.2307/3100033 |
| 47 | *Anarrhinum\_fruticosum* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-1 |
| 48 | *Andropogon\_brevifolius* | | Canales; Trevisan; Silva; Caswell | *Acta Oeco* | 1994 | None |
| 49 | *Andropogon\_semiberbis* | | Silva; Raventos; Caswell | *J Ecol* | 1991 | 10.2307/2260717 |
| 50 | *Androsace\_elongata* | | Dostál | *J Veg Sci* | 2007 | 10.1111/j.1654-1103.2007.tb02519.x |
| 51 | *Androsace\_vitaliana* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-2 |
| 52 | *Anemone\_patens* | | Williams; Crone | *Ecology* | 2006 | 10.1890/0012-9658(2006)87[3200:TIOIGO]2.0.CO;2 |
| 53 | *Annamocarya\_sinensis* | | Chien; Zuidema; Nghia | *Popul Ecol* | 2008 | 10.1007/s10144-008-0079-3 |
| 54 | *Anthericum\_liliago* | | Černá; Münzbergová | *PLoS ONE* | 2013 | 10.1371/journal.pone.0075563 |
| 55 | *Anthericum\_ramosum* | | Černá; [Münzbergová](http://scholar.google.com/citations?user=Ter9aGoAAAAJ&hl=en&oi=sra) | *PLoS ONE* | 2013 | 10.1371/journal.pone.0075563 |
| 56 | *Anthoxanthum\_odoratum* | | Fréville; Silvertown | *Plant Ecol* | 2005 | 10.1007/s11258-004-0017-1 |
| 57 | *Anthyllis\_vulneraria* | | Bastrenta; Lebreton; Thompson | *J Ecol* | 1995 | 10.2307/2261628 |
| 58 | *Anthyllis\_vulneraria\_2* | | Bastrenta; Lebreton; Thompson | *J Ecol* | 1995 | 10.2307/2261628 |
| 59 | *Anthyllis\_vulneraria\_3* | | Davison | *PhD thesis* | 2011 | None |
| 60 | *Antirrhinum\_lopesianum* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-3 |
| 61 | *Antirrhinum\_subbaeticum* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-4 |
| 62 | *Aquilaria\_crassna* | | Zhang; Brockelman; Allen | *Biol Cons* | 2008 | 10.1016/j.biocon.2008.04.015 |
| 63 | *Aquilaria\_malaccensis* | | Soehartono; Newton | *Biol Cons* | 2001 | 10.1016/S0006-3207(00)00089-6 |
| 64 | *Aquilaria\_microcarpa* | | Soehartono; Newton | *Biol Cons* | 2001 | 10.1016/S0006-3207(00)00089-6 |
| 65 | *Aquilegia\_chrysantha* | | Stubben | *PhD thesis* | 2007 | None |
| 66 | *Aquilegia\_sp.* | | Stubben; Milligan | *J Stat Soft* | 2007 | None |
| 67 | *Arabis\_fecunda* | | Lesica; Shelly | *Am J Bot* | 1995 | 10.2307/2445615 |
| 68 | *Araucaria\_araucana* | | Bekessy; Newton; Fox; Lara et al. | *Book* | 2004 | None |
| 69 | *Araucaria\_cunninghamii* | | Enright; Ogden | *Aust J Ecol* | 1979 | 10.1111/j.1442-9993.1979.tb01195.x |
| 70 | *Araucaria\_hunsteinii* | | Enright | *Aust J Ecol* | 1982 | 10.1111/j.1442-9993.1982.tb01304.x |
| 71 | *Araucaria\_laubenfelsii* | | Rigg; Enright; Jaffré; Perry | *Biotrop* | 2010 | 10.1111/j.1744-7429.2009.00615.x |
| 72 | *Araucaria\_muelleri* | | Enright; Miller; Perry; Goldblum; Jaffré | *Aust Ecol* | 2014 | 10.1111/aec.12045 |
| 73 | *Arctophila\_fulva\_var.\_pendulina* | | Rautiainen; Laine; Aikio; Aspi; Siira; Hyvärinen | *Appl Veg Sci* | 2004 | 10.1111/j.1654-109X.2004.tb00613.x |
| 74 | *Ardisia\_elliptica* | | Koop; Horvitz | *Ecology* | 2005 | 10.1890/04-1483 |
| 75 | *Ardisia\_escallonioides* | | Pascarella; Horvitz | *Ecology* | 1998 | 10.2307/176952 |
| 76 | *Arenaria\_bolosii* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-5 |
| 77 | *Arenaria\_serpyllifolia* | | Dostál | *J Veg Sci* | 2007 | 10.1658/1100-9233(2007)18[91:PDOAIP]2.0.CO;2 |
| 78 | *Argyroxiphium\_sandwicense* | | Forsyth | *Oecologia* | 2003 | 10.1007/s00442-003-1295-3 |
| 79 | *Arisaema\_serratum* | | Kinoshita | *Plant Spp Biol* | 1987 | 10.1111/j.1442-1984.1987.tb00030.x |
| 80 | *Arisaema\_triphyllum* | | Bierzychudek | *Ecol Monog* | 1982 | 10.2307/2937350 |
| 81 | *Aristida\_bipartita* | | O'Connor | *J Appl Ecol* | 1993 | 10.2307/2404276 |
| 82 | *Armeria\_maritima* | | Lefebvre; Chandler-Mortimer | *J Appl Ecol* | 1984 | 10.2307/2403051 |
| 83 | *Armeria\_merinoi* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-6 |
| 84 | *Arnica\_angustifolia* | | Jäkäläniemi | *Env and Exp Bot* | 2011 | 10.1016/j.envexpbot.2011.03.013 |
| 85 | *Asarum\_canadense* | | Damman; Cain | *J Ecol* | 1998 | 10.1046/j.1365-2745.1998.00242.x |
| 86 | *Asclepias\_meadii* | | Bell; Bowles; McEachern | *Book* | 2003 | 978-3-642-07869-9 |
| 87 | *Aspasia\_principissa* | | Zotz; Schmidt | *Biol Cons* | 2006 | 10.1016/j.biocon.2005.07.022 |
| 88 | *Asplenium\_adulterinum* | | Bucharová; Münzbergová; Tájek | *Am J Bot* | 2010 | 10.3732/ajb.0900351 |
| 89 | *Asplenium\_cuneifolium* | | Bucharová; Münzbergová; Tájek | *Am J Bot* | 2010 | 10.3732/ajb.0900351 |
| 90 | *Asplenium\_scolopendrium* | | Bremer; Jongejans | *Popul Ecol* | 2010 | 10.1007/s10144-009-0143-7 |
| 91 | *Aster\_amellus* | | Münzbergová | *Am J Bot* | 2007 | 10.1093/aob/mcm204 |
| 92 | *Aster\_pyrenaeus* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-7 |
| 93 | *Astragalus\_alopecurus* | | Nicolè |  | NA | None |
| 94 | *Astragalus\_cremnophylax\_var.\_cremnophylax* | | Maschinski; Frye; Rutman | *Cons Biol* | 1997 | 10.1046/j.1523-1739.1997.96159.x |
| 95 | *Astragalus\_michauxii* | | Wall; Hoffmann; Wentworth; Gray; Hohmann | *Plant Ecol* | 2012 | 10.1007/s11258-012-0068-7 |
| 96 | *Astragalus\_peckii* | | Martin; Meinke | *Popul Ecol* | 2012 | 10.1007/s10144-012-0318-5 |
| 97 | *Astragalus\_scaphoides* | | Lesica | *Great Bas Nat* | 1995 | 10.2307/2445615 |
| 98 | *Astragalus\_scaphoides\_2* | | Crone; Lesica | *Ecology* | 2004 | 10.1890/03-0256 |
| 99 | *Astragalus\_tremolsianus* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-8 |
| 100 | *Astragalus\_tyghensis* | | Kaye; Pyke | *Ecology* | 2003 | 10.1890/0012-9658(2003)084[1464:TEOSTO]2.0.CO;2 |
| 101 | *Astrocaryum\_aculeatissimum* | | Portela; Bruna; dos Santos | *Biodivers Conserv* | 2010 | 10.1007/s10531-010-9846-5 |
| 102 | *Astrocaryum\_mexicanum* | | Pinero; Martinez; Sarukhan | *Ecology* | 1984 | 10.2307/2259545 |
| 103 | *Atriplex\_acanthocarpa* | | Verhulst; Montaña; Mandujano; Franco | *Oecologia* | 2008 | 10.1007/s00442-008-0980-7 |
| 104 | *Atriplex\_canescens* | | Verhulst; Montaña; Mandujano; Franco | *Oecologia* | 2008 | 10.1007/s00442-008-0980-7 |
| 105 | *Atriplex\_vesicaria* | | Hunt | *J Appl Ecol* | 2001 | 10.1046/j.1365-2664.2001.00586.x |
| 106 | *Attalea\_humilis* | | Souza; Martins | *Biodivers Conserv* | 2004 | 10.1023/B:BIOC.0000029326.44647.7f |
| 107 | *Austrostipa\_aristiglumis* | | Godfree; Lepschi; Rside; Bolger; Robertson; Marshall; Carnegie | *Glob Change Biol* | 2010 | 10.1111/j.1365-2486.2010.02292.x |
| 108 | *Avicennia\_germinans* | | López-Hoffman; Ackerly; Anten; Denoyer;Ramos | *J Ecol* | 2007 | 10.1111/j.1365-2745.2007.01298.x |
| 109 | *Avicennia\_marina\_2* | | Clarke | *Hydrobiol* | 1995 | 10.1007/978-94-011-0289-6\_11 |
| 110 | *Balsamorhiza\_sagittata* | | Crone; Marler; Pearson | *J Appl Ecol* | 2009 | 10.1111/j.1365-2664.2009.01635.x |
| 111 | *Banksia\_ericifolia* | | Bradstock; O'Connell | *Aust J Ecol* | 1988 | 10.1111/j.1442-9993.1988.tb00999.x |
| 112 | *Bertholletia\_excelsa* | | Zuidema; Boot | *J Trop Ecol* | 2002 | 10.1017/S0266467402002018 |
| 113 | *Betula\_nana* | | Ebert; Ebert | *Vegetatio* | 1989 | 10.1007/BF00042253 |
| 114 | *Betula\_pubescens\_subsp.\_tortuosa* | | Lehtilä; Tuomi; Sulkinoja | *Ecology* | 1994 | 10.2307/1939418 |
| 115 | *Boltonia\_decurrens* | | Smith; Caswell; Mettler-Cherry | *Ecol Appl* | 2005 | 10.1890/04-0434 |
| 116 | *Borassus\_aethiopum* | | Barot; Gignoux; Vuattoux | *J Trop Ecol* | 2000 | 10.1017/S0266467400001620 |
| 117 | *Borderea\_chouardii* | | Garcia | *Cons Biol* | 2003 | 10.1016/S0006-3207(01)00113-6 |
| 118 | *Boswellia\_papyrifera* | | Groenendijk; Eshete; Sterck; Zuidema; Bongers | *J Appl Ecol* | 2012 | 10.1111/j.1365-2664.2011.02078.x |
| 119 | *Bothriochloa\_insculpta* | | O'Connor | *J Appl Ecol* | 1993 | 10.2307/2404276 |
| 120 | *Bothriochloa\_ischaemum* | | Gabbard | *PhD thesis* | 2003 | None |
| 121 | *Bouteloua\_rigidiseta* | | Fowler; Overath; Pease | *Ecology* | 2006 | 10.1890/05-1197 |
| 122 | *Brassica\_insularis* | | Noel; Maurice; Mignot; Glémin; Carbonell; Justy; Guyot; Olivieri; Petit | *Cons Genet* | 2010 | 10.1007/s10592-010-0056-1 |
| 123 | *Brassica\_napus\_2* | | |  | NA |  |
| 124 | *Braya\_fernaldii* | | Squires | *PhD thesis* | 2010 | None |
| 125 | *Braya\_longii* | | Squires | *PhD thesis* | 2010 | None |
| 126 | *Bromus\_tectorum* | | Griffith | *Ecology* | 2010 | 10.1890/08-1446.1 |
| 127 | *Brosimum\_alicastrum* | | Peters | *PhD thesis* | 1989 | None |
| 128 | *Bursera\_glabrifolia* | | Hernández-Apolinor; Valverde; Purata | *Forest Ecol Manag* | 2006 | 10.1016/j.foreco.2005.10.072 |
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| 626 | *Themeda\_triandra* | | O'Connor; Pickett | *J Appl Ecol* | 1992 | 10.2307/2404276 |
| 627 | *Themeda\_triandra\_2* | | O'Connor; Pickett | *J Appl Ecol* | 1992 | 10.2307/2404276 |
| 628 | *Thrinax\_radiata* | | Olmsted; Alvarez-Buylla | *Ecol Appl* | 1995 | 10.2307/1942038 |
| 629 | *Thymus\_webbianus* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-34 |
| 630 | *Tillandsia\_brachycaulos* | | Mondragón; Durán; Ramírez; Valverde | *J Trop Ecol* | 2004 | 10.1017/S0266467403001287 |
| 631 | *Tillandsia\_deppeana* | | Winkler; Hülber; Hietz | *Bas and Appl Ecol* | 2007 | 10.1016/j.baae.2006.05.003 |
| 632 | *Tillandsia\_juncea* | | Winkler; Hülber; Hietz | *Bas and Appl Ecol* | 2007 | 10.1016/j.baae.2006.05.003 |
| 633 | *Tillandsia\_macdougallii* | | Mondragón; Ticktin | *Cons Biol* | 2011 | 10.1111/j.1523-1739.2011.01691.x |
| 634 | *Tillandsia\_multicaulis* | | Winkler; Hülber; Hietz | *Bas and Appl Ecol* | 2007 | 10.1016/j.baae.2006.05.003 |
| 635 | *Tillandsia\_punctulata* | | Winkler; Hülber; Hietz | *Bas and Appl Ecol* | 2007 | 10.1016/j.baae.2006.05.003 |
| 636 | *Tillandsia\_recurvata* | | Valverde; Bernal | *Bol Soc Bot Mex* | 2010 | 0366-2128 |
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| 638 | *Tolumnia\_variegata* | | Calvo | *Ecology* | 1993 | 10.2307/1940473 |
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| 641 | *Tradescantia\_brevifolia* | | Burns | *Ecol Appl* | 2008 | 10.1890/07-0568.1 |
| 642 | *Tradescantia\_fluminensis* | | Burns | *Ecol Appl* | 2008 | 10.1890/07-0568.1 |
| 643 | *Tradescantia\_zebrina* | | Burns | *Ecol Appl* | 2008 | 10.1890/07-0568.1 |
| 644 | *Tragopogon\_dubius* | | Prevéy; Germino; Huntly | *Ecol Appl* | 2010 | 10.1890/09-0750.1 |
| 645 | *Tragopogon\_pratensis* | | Milden; Eriksson | *Ann Bot Fen* | 2007 | None |
| 646 | *Trifolium\_montanum* | | Schleuning; Matthies | *Cons Biol* | 2009 | 10.1111/j.1523-1739.2008.01054.x |
| 647 | *Trifolium\_pratense* | | Fréville; Silvertown | *Plant Ecol* | 2005 | 10.1007/s11258-004-0017-1 |
| 648 | *Trillium\_apetalon* | | Ohara; Takada; Kawano | *Plant Spp Biol* | 2001 | 10.1046/j.1442-1984.2001.00062.x |
| 649 | *Trillium\_camschatcense* | | Ohara; Tomimatsu; Takada; Kawano | *Plant Spp Biol* | 2006 | 10.1111/j.1442-1984.2006.00145.x |
| 650 | *Trillium\_grandiflorum* | | Knight | *Am J Bot* | 2003 | 10.3732/ajb.90.8.1207 |
| 651 | *Trillium\_grandiflorum\_2* | | Rooney; Gross | *Plant Ecol* | 2003 | 10.1023/A:1024486606698 |
| 652 | *Trollius\_laxus* | | Scanga; Leopold | *Biol Cons* | 2012 | 10.1016/j.biocon.2012.01.061 |
| 653 | *Tsuga\_canadensis* | | Lamar; McGraw | *Forest Ecol Manag* | 2005 | 10.1016/j.foreco.2005.02.056 |
| 654 | *Ulex\_gallii* | | Stokes; Bullok; Watkinson | *J Ecol* | 2004 | 10.1111/j.1365-2745.2004.00844.x |
| 655 | *Ulex\_minor* | | Stokes; Bullok; Watkinson | *J Ecol* | 2004 | 10.1111/j.1365-2745.2004.00844.x |
| 656 | *Vatica\_hainanensis* | | Hu; Wang | *Acta Ecol Sinica* | 1988 | None |
| 657 | *Vella\_pseudocytisus\_subsp.\_paui* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-35 |
| 658 | *Vella\_pseudocytisus\_subsp.\_pseudocytisus* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-36 |
| 659 | *Verbascum\_fontqueri* | | Iriondo; Albert; Giménez; Lozano; Escudero | *Book* | 2009 | 978-84-8014-746-37 |
| 660 | *Veronica\_arvensis* | | Dostal | *J Veg Sci* | 2007 | 10.1658/1100-9233(2007)18[91:PDOAIP]2.0.CO;2 |
| 661 | *Veronica\_arvensis\_2* | | Burns; Pardini; Schutzenhofer; Chung; Seidler; Knight | *Ecology* | 2013 | 10.1890/12-1310.1 |
| 662 | *Verticosa\_staminosa\_subsp.\_staminosa* | | Yates; Ladd; Coates; McArthur | *Aust J Bot* | 2007 | 10.1071/BT06032 |
| 663 | *Viburnum\_furcatum* | | Hara; Kanno; Hirabuki; Takehara | *J Veg Sci* | 2004 | 10.1658/1100-9233(2004)015[0475:PDOFUS]2.0.CO;2 |
| 664 | *Viola\_elatior* | | Eckstein; Otte | *Flora* | 2004 | 10.1078/0367-2530-00151 |
| 665 | *Viola\_fimbriatula* | | Solbrig; Sarandon; Bossert | *Am Nat* | 1988 | 10.1086/284796 |
| 666 | *Viola\_pumila* | | Eckstein; Danihelka; Otte | *Biol* | 2009 | 10.2478/s11756-009-0002-1 |
| 667 | *Viola\_stagnina* | | Eckstein; Danihelka; Otte | *Biol* | 2009 | 10.2478/s11756-009-0002-1 |
| 668 | *Vochysia\_ferruginea* | | Boucher; Mallono | *Forest Ecol Manag* | 1997 | 10.1016/S0378-1127(96)03890-X |
| 669 | *Vouacapoua\_americana* | | Chagneau; Mortier; Picard | *J R Stat Soc C* | 2009 | 10.1111/j.1467-9876.2008.00657.x |
| 670 | *Werauhia\_sanguinolenta* | | Zotz | *Acta Oeco* | 2005 | 10.1016/j.actao.2005.05.009 |
| 671 | *Zamia\_amblyphyllidia* | | Negron-Ortiz; Gorchov; Breckon | *Int J plant Sci* | 1996 | 10.1086/297381 |
| 672 | *Zea\_diploperennis* | | Sanchez-Velazquez; Ezcurra; Martinez-Ramos; Alvarez-Buylla; Lorente | *J Ecol* | 2002 | 10.1046/j.1365-2745.2002.00702.x |

# Appendix S5. COMPADRE phylogeny

In order to facilitate broader demographic comparative analyses, we are making publically available a phylogenetic tree for the species released in COMPADRE 3.0. To construct the tree, the identity of each species and its corresponding taxonomic family were checked in The Plant List website (<http://www.theplantlist.org/>). The specific names used by the authors (*SpeciesAuthor* instead of *SpeciesAccepted* in Table 1 in the main manuscript), however, were used here for direct reference to the COMPADRE data. Second, we obtained an approximate phylogeny with PHYLOMATIC (Webb 2005). Resolution below the level provided by phylomatic, which varies from family to family, was achieved by manually sorting individuals species in MESQUITE (Maddison 2009) by reference to published sources of phylogenetic information (Blomberg 2003; Schlichting 2002) (See separate reference list for each taxonomic family below). This is because many species did not have information in GenBank to allow us to construct a phylogeny from DNA data. Moreover, closely related species that could be used as temporary surrogates could often not be obtained. Also, because “in every case, the ultimate authoritative source for the nomenclature and classification is the primary taxonomic literature itself” (Federhen 2012), we decided to follow Federhen’s practice at NCBI (*“… the NCBI taxonomy is not generated automatically from the sequence data – rather, we try to reflect the current consensus in the systematics literature”)* and use the available published information to determine the topological position of each species in the tree. Once the maximally resolved topology that we produced with the available information was obtained, branch lengths were interpolated employing the function *bladj* of PHYLOCOM (Webb 2008) given the node ages provided by Wikstrom and colleagues (2001).

The link to the nexus phylogeny file can be found in the COMPADRE database github site. This file will be updated as more information is periodically released. This file may contain species currently in the working version of COMPADRE, but whose demographic information has not yet been released.

<https://github.com/jonesor/compadreDB/tree/master/Phylogeny>

|  |  |
| --- | --- |
| Taxonomic group | Reference |
| Angiosperms | Angiosperm Phylogeny Group III. An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG III. *Botanical Journal of the Linnean Society* **161**, 105 (2009). |
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|  |  |  |
| --- | --- | --- |
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| 1994-1996 | The Royal Society of London (UK) | Jonathan Silvertown |
| 1999-2000 | The Ferguson Trust. Open University (UK) | Jonathan Silvertown & Miguel Franco |
| 1999-2000 | Consejo Nacional de Ciencia y Tecnología (Mexico) | Miguel Franco |
| 1994-1996 | Dirección General Asuntos del Personal Académico, Universidad Nacional Autónoma de México (Mexico) | Miguel Franco |
| 2006-2007 | Natural Environment Research Council (UK) | Dave Hodgson |
| 2006-2008 | Personal funds | Roberto Salguero-Gómez |
| 2007-2010 | Australian Research Council (Australia) | Yvonne Buckley |
| 2007-2010 | Australian & New Zealand Vegetation Function Network (Australia & New Zealand) | Yvonne Buckley |
| 2008-2010 | Reese Family Foundation (USA) | Roberto Salguero-Gómez |
| 2009-2012 | European Social Fund (Europe) | Dave Hodgson & Stuart Townley |
| 2011 | Max Planck Institute for Demographic Research (Germany) | Roberto Salguero-Gómez |
| 2011-2013 | Strategic Environmental Research and Development Program, Department of Defense (US) | Maile Neel & William Fagan |
| 2012-2014 | Australian Research Council (Australia) | Yvonne Buckley & Glenda Wardle |
| 2012-2014 | Max Planck Institute for Demographic Research (Germany) | Roberto Salguero-Gómez & Owen Jones |
| 2014-2016 | Australian Research Council (Australia) | Roberto Salguero-Gómez |
| 2014-2017 | Natural Environmental Research Council (UK) | David Hodgson |

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# Appendix S7. Author contributions

The authorship and authorship order of this manuscript was determined following the ICMJE authorship standards (<http://www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html>), aided by the table of contributions (below). The first two positions correspond to the leaders of this project, followed by the core committee members (See Supporting Information Appendix S1) in order of decreasing contributions, followed by the digitization team in alphabetic order, followed by the science committee members in alphabetic order; last, senior authorship is shared among the founders of COMPADRE and its current grand-vision exponent.

The authors below are organized in alphabetical last name order. The definitions of each task are:

* *Project vision and scope*: Founded, developed and/or organized the current staff and database structure.
* *Digitization of data*: digitization of information into COMPADRE Plant Matrix Database v. 3.0, previous versions, and any other independent database that has been since integrated into COMPADRE.
* *Data error check*: Implementation of protocols for error checking and of “hand” error checking of digitized data.
* *Organization of database*: Set the standards for what variables, with what options and in what ways to archive information in COMPADRE.
* *Online portal*: Outlined the organization of the portal, the rules of access and distribution of sub-sites, as well as its oversaw its programming outcomes.
* *Phylogenetic tree*: Construction of phylogenetic tree of species released in COMPADRE v. 3.0, pruning and integration into database.
* *R scripts:* Developed *R* scripts to manipulated matrices in COMPADRE and ancillary information.
* *Analyses*: Carried out analyses presented for summary statistics in the manuscript.
* *Wrote paper*: Wrote the first full draft of the manuscript, including tables, figures and references, and integrated posterior comments by coauthors.
* *Edited paper:* Provided significant comments to the paper, as described by the authorship standards of the ICMJE.
* *Compiled Supporting Information Appendixes*: Organized and wrote the first full draft of the SOM, and integrated posterior comments by coauthors.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Authors** | **Database role** | **Project vision and scope** | **Digitization of data** | **Data error check** | **Organization of database** | **Online portal** | **Phylogenetic tree** | **R scripts** | **Analyses** | **Wrote paper** | **Edited paper** | **Compiled SIAs** | **Edited SIAs** |
| Altwegg | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Archer | 4 |  | \* | \* | \* |  |  |  |  |  | \* |  | \* |
| Baudisch | 2§ |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Buckley | 2 | \* | \* |  | \* |  |  |  |  |  | \* |  |  |
| Caswell | 2 | \* |  |  | \* |  |  |  |  |  | \* |  |  |
| Che-Castaldo | 2 |  | \* | \* | \* |  |  |  |  |  | \* |  | \* |
| Colchero | 3 |  |  |  |  |  |  | \* |  |  | \* |  |  |
| Conde | 2 |  |  |  |  |  |  |  |  |  | \* |  |  |
| Brinks | 5 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| de Buhr | 4 |  | \* |  |  |  |  |  |  |  | \* |  | \* |
| de Kroon | 3 |  |  |  |  |  |  |  |  |  | \* |  |  |
| Davison | § |  | \* |  |  |  |  |  |  |  | \* |  | \* |
| Dong | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Farack | 4 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Franco | 3 | \* | \* |  |  |  | \* |  |  |  | \* |  | \* |
| Gottschalk | 4 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Hartmann | 4 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Henning | 4 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Hodgson | 3 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Hoppe | 5 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Jens | 5 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Jones | 1,2 | \* |  |  | \* | \* | \* | \* |  |  | \* |  | \* |
| Lebreton | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Metcalf | 3 |  | \* |  |  |  |  | \* |  |  | \* |  |  |
| Neel | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Parker | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Römer | 4 |  | \* | \* | \* |  |  |  |  |  | \* |  |  |
| Ruoff | 4 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Salguero-Gómez | 1,2 | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| Scheuerlein | 2 |  |  |  | \* |  |  |  |  |  | \* |  | \* |
| Takada | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Valverde | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Vaupel | 2 | \* |  |  | \* |  |  |  |  |  | \* |  | \* |
| Velez-Espino | 3 |  |  |  |  |  |  |  |  |  | \* |  | \* |
| Dirk Vieregg | 6 |  |  |  | \* |  |  |  |  |  | \* |  |  |
| Wardle | 3 |  | \* |  |  |  |  |  |  |  | \* |  | \* |
| Wille | 4 |  | \* |  |  |  |  |  |  |  | \* |  |  |
| Zeh | 4 |  | \* | \* | \* |  |  |  |  |  | \* |  |  |

Values for database role: *1* COMPADRE team leader; *2* COMPADRE Core Committee member; *3* COMPADRE Science Committee member; *4* COMPADRE Digitization Team member; *5* Past COMPADRE Digitization Team member; *6* IT support. See Supporting Information Appendix S1. §No longer an active member of COMPADRE.

# Appendix S8. Supporting Information References

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