



Santa Barbara Botanic Garden

SBBG Research Publications, 1940-present

The following bibliography includes publications of the staff and Research Associates of the Santa Barbara Botanic Garden as well as publications that were directly facilitated by the Garden.

Last updated April 2023

2023:

Journal Articles (peer reviewed):

Cusser, S., S. Jha, E. Lonsdorf, & T. Ricketts. 2023. Public and private economic benefits of adopting conservation tillage for cotton pollination. *Agriculture, Ecosystems & Environment*, 342, 108251.

Mulroy, T.W., C.M. Guilliams, and K. Hasenstab-Lehman. 2023. Three new *Dudleya* taxa (Crassulaceae) from coastal northwestern Baja California, Mexico. *Madroño* 70(1): 23-66.

Technical Reports and non-peer reviewed articles:

Cusser, S., K.E. Etter, & D. Knapp. Floral Visitors of *Deinandra increscens* ssp. *villosa*. 2022 Preliminary Findings Report prepared for BayWa r.e. Wind LLC by the Santa Barbara Botanic Garden, Santa Barbara, CA. 14 pp.

Cusser, S., K.E. Etter, & D. Knapp. 2022. Restoring pollination networks for the California Jewelflower. 2022 Preliminary findings report prepared for the Bureau of Land Management by the Santa Barbara Botanic Garden, Santa Barbara, CA. 13 pp.

2022:

Journal Articles (peer reviewed):

- Allen-Perkins, A., A. Magrach, M. Dainese, L.A. Garibaldi, D. Kleijn, R. Rader, ... **S. Cusser**,... & A. Montero-Castaño. 2022. CropPol: A dynamic, open and global database on crop pollination.
- Carlquist, S.**, T.F. Stuessy, & E. Urtubey. 2022. Distinctive wood anatomy of early-diverging Asteraceae: Barnadesioideae. *Botanical Journal of the Linnean Society* 198(3): 259-284.
- Ferguson, B.N., S.G. Gotsch, **C.B. Williams**, H. Wilson, C.N. Barnes, T.E. Dawson, & N.M. Nadkarni. 2022. Variation in cloud immersion, not precipitation, drives vascular epiphyte leaf trait plasticity and water relations during an extreme drought. *American Journal of Botany* 109(4):1–14. <https://doi.org/10.1002/ajb2.1833>
- Gotsch, S.G., C.B. Williams, R. Bicaba, R. Cruz-de Hoyos, A. Darby, K. Davidson, M. Dix, V. Duarte, A. Glunk, L. Green, B. Ferguson, K. Muñoz-Elizondo, J.G. Murray, I. Picado-Fallas, **R. Reese Næsborg**, T.E. Dawson & N. Nadkarni. 2022. Trade-offs between succulent and non-succulent epiphytes underlie variation in drought tolerance and avoidance. *Oecologia* 198: 645–661.
- Kofron, C P., **S.E. Termondt**, L.H. Lum, **H.E. Schneider**, **K.E. Hasenstab-Lehman**, and **C.M. Guilliams**. 2022. Status of Lompoc yerba santa *Eriodictyon capitatum* (Namaceae): an endangered plant in Santa Barbara County, Southern California. *Bulletin of the Southern California Academy of Sciences* 121(3): 139-159. <https://doi.org/10.3160/0038-3872-121.3.139>
- Lybbert, A.H., **S. Cusser**, K.J.L. Hung, & K. Goodell. 2022. Ten-year trends reveal declining quality of seeded pollinator habitat on reclaimed mines regardless of seed mix diversity. *Ecological Applications*,32(1), e02467.
- Mueller G.M., K. Martins Cunha, T.W. May, J.L. Allen, J.R.S. Westrip, C. Canteiro, D. Henrique Costa-Rezende, E.R. Drechsler-Santos, A.M. Vasco-Palacios, M. Ainsworth, G. Alves-Silva, F. Bungartz, A. Chandler, S.C. Gonçalves, I. Krisai-Greilhuber, R. Iršénaitė, J.B. Jordal, T. Kosmann, J. Lendemer, R.T. McMullin, A. Mešić, V. Motato-Vásquez, Y. Ohmura, **R. Reese Næsborg**, C. Perini, I. Saar, D. Simijaca, R. Yahr, & A. Dahlberg. 2022. What do the first 597 global fungal Red List assessments tell us about the threat status of fungi? *Diversity* 14(9): 736. <https://www.mdpi.com/1424-2818/14/9/736>
- Mulroy, M., A.M. Fryday, A. Gersoff, J. Dart, **R. Reese Næsborg**, & N. Rajakaruna. 2022. Lichens of ultramafic substrates in North America: A Review. *Botany*. Doi: 10.1139/cjb-2021-0187.
- Ostertag, R., C. Restrepo, J.W. Dalling, P.H. Martin, I. Abiem, S-I. Aiba, E. Alvarez-Dávila, R. Aragón, M. Ataroff, H. Chapman, A.Y. Cueva-Agila, B. Fadrique, R.D. Fernandez, G. González, S.G. Gotsch, A. Häger, J. Homeier, C. Iñiguez-Armijos, L.D. Llambí, G.W. Moore, **R. Reese Næsborg**, L.N. Poma López, P.V. Pompeu, J.R. Powell, J.A. Ramirez

- Correa, K. Scharnagl, C. Tobón, & **C.B Williams**. 2022. Litter decomposition rates across tropical montane and lowland forests are controlled foremost by climate. *BioTropica* 54(2): 309–326. Doi: 10.1111/btp.13044
- Reese Næsborg, R.** 2022. Lichens rock! (Even though they are affected by tree genetics). *The Bulletin of the Ecological Society of America*. 103(2): e01959.
- Reese Næsborg, R.** 2022. *Ramalina menziesii*. The IUCN Red List of Threatened Species 2022: e.T213314289A213315130. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T213314289A213315130.en>.
- Reese Næsborg, R.,** H. Root, & D. Stone. 2022. *Trapeliopsis bisorediata*. The IUCN Red List of Threatened Species 2022: e.T194674651A213314933. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T194674651A213314933.en>.
- Reese Næsborg, R.** 2022. *Xylopsora canopeorum*. The IUCN Red List of Threatened Species 2022: e.T194662559A213315050. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T194662559A213315050.en>.
- Rick, T.C., A.M. Alsharekh, T.J. Braje, A. Crowther, J.M. Erlandson, D.Q. Fuller, **K.M. Gill**, H.S. Groucutt, M. Guagnin, R. Helm, C.A. Hofman, M. Horton, A. Kay, R. Korisettar, C. Radimilahy, L. Reeder-Myers, C. Shipton, H.T. Wright, M. Petraglia, & N. Boivin. 2022. Coring, profiling, and trenching: Archaeological field strategies for investigating the Pleistocene-Holocene-Anthropocene continuum. *Quaternary International*, February 9, 2022. <http://doi.org/10.1016/j.quaint.2022.02.011>
- Simpson, M.G., **K.E. Hasenstab-Lehman**, M.E. Mabry, & M. Munoz-Schick. 2022. *Johnstonella punensis* (Boraginaceae), a new species endemic to the dry Puna of Chile. *PhytoKeys* 197: 149-164.

Technical Reports and non-peer reviewed articles

- Guilliams, C.M., K.E. Hasenstab-Lehman, & H. Schneider.** 2022. Census and conservation seed banking of northern island mallow (*Malva assurgentiflora* (Kell.) M.F. Ray subsp. *assurgentiflora*; Malvaceae) on San Miguel and Anacapa Islands, Channel Islands National Park. Unpublished report prepared for California Institute of Environmental Studies by the Santa Barbara Botanic Garden, Santa Barbara, CA. 20 pp.
- Guilliams, C.M., and K.E. Hasenstab-Lehman.** 2022. Conservation genomics of Lompoc yerba santa (*Eriodictyon capitatum*, Namaceae), including phylogenomic insights into the evolution of *Eriodictyon*. Unpublished report prepared for the U.S. Fish and Wildlife Service by the Santa Barbara Botanic Garden, Santa Barbara, CA. 35 pp.
- Guilliams, C.M.** 2022. 80,000+ herbarium specimens digitized, now on public data portal. *Ironwood* 32:8-9.
- Guilliams, C.M., K.E. Hasenstab-Lehman, & B. Carter.** 2022. Status assessment and

- conservation actions for sensitive and listed *Dudleya* (liveforever) taxa affected by the Woolsey Fire. Draft Annual Report, Year 2, prepared for the U.S. Fish and Wildlife Service by the Santa Barbara Botanic Garden, Santa Barbara, CA. 46 pp.
- Hasenstab-Lehman K.E., S.N. Kauppinen, C.M. Guilliams, C.H. Hazelquist, D. Thompson, & A.K. McEachern.** 2022. Using genetic data to guide conservation actions for the endangered single-island endemic plant *Castilleja mollis* (soft-leaved paint brush). Year 2 progress draft report prepared for U.S. Fish and Wildlife Service by the Santa Barbara Botanic Garden, Santa Barbara, CA, 86 pp.
- Hasenstab-Lehman K.E. & C.M. Guilliams.** 2022. Conservation genomics of island mallow (*Malva assurgentiflora*, Malvaceae). Draft report prepared for California Institute of Environmental Studies by the Santa Barbara Botanic Garden, Santa Barbara, CA, 48 pp.
- Hasenstab-Lehman, K.E. and C.M. Guilliams.** 2022. Metabarcoding study of the San Clemente Island fox (*Urocyon littoralis clementae*) with a focus on invertebrate and plant contributions across sampling sites. Unpublished final report prepared for The U.S. Navy by the Santa Barbara Botanic Garden, Santa Barbara, CA. 40 pp.
- Knapp, D.A., K. Etter, & S. Cusser.** 2022. Floral visitors of *Deinandra increscens* ssp. *villosa*: 2021 findings report. Unpublished report prepared for Dudek by the Santa Barbara Botanic Garden, Santa Barbara, CA. 20 pp.
- Knapp, D.A., K. Etter, & S. Cusser.** 2022. Floral visitors of *Deinandra increscens* ssp. *villosa*: 2021 findings report prepared for Dudek by the Santa Barbara Botanic Garden, Santa Barbara, CA. 20 pp.
- Knapp, D.A.** 2022. *Diplacus vandenbergensis* census and experimental restoration trial. Final report prepared for the U.S. Fish and Wildlife Service by the Santa Barbara Botanic Garden, Santa Barbara, CA. 20 pp.
- Namoff, S.M., **K.E. Hasenstab-Lehman, C.M. Guilliams, & H.E. Schneider.** 2022. Conservation genomics of island rush-rose (*Crocanthemum greenei* (B.L. Rob.) (Sorrie, Cistaceae): Effects of historical land management practices on the genetic structure and diversity of a Channel Islands endemic plant. Final draft report prepared for California Department of Fish and Wildlife by the Santa Barbara Botanic Garden, Santa Barbara, CA. 42 pp.
- Phillips, Z.I., C.H. Richart, J. Flores, K. Etter, J. Sanderson, L. Warner, D. Zhang, H. Noroian, A.J. Martín, S. Cusser, and D.A. Knapp.** 2022. San Clemente Island terrestrial invertebrate survey: Guiding biodiversity inventory, rare plant conservation, and habitat restoration. Draft final report prepared for the U.S. Navy by the Santa Barbara Botanic Garden, Santa Barbara, CA. 25 pp. plus two data sets.
- Phillips, Z.I.** 2022. Galls y'all. Ironwood 31: 14-17.
- Phillips, Z.I.** 2022. The long kiss goodnight: Following an invasive ant-mimicking spider from Texas to California. Ironwood 32: 18-21.
- Reese Næsborg, R. & C.B. Williams.** 2022. The amazing coast redwood. Ironwood 31(2): 6.

Schneider, H.E. & S.A. Carson. 2022. A comprehensive collaborative project to recover 14 listed plant species on the Channel Islands – Final Report. Unpublished report prepared for California Department of Fish and Wildlife by the Santa Barbara Botanic Garden, Santa Barbara, CA. 196 pp.

Schneider, H.E. & S.A. Carson. 2022. Saving for the future: conservation seed banking in the BLM Central California District. Final Report. Unpublished report prepared for the Bureau of Land Management by the Santa Barbara Botanic Garden, Santa Barbara, CA. 53 pp.

Schneider, H., K. Lehman, K. Mason, S. Carson, & M. Guilliams. 2022. Understanding and conserving the endangered Kern mallow (*Eremalche parryi* ssp. *kernensis*) Annual Report. Prepared for the Bureau of Land Management by the Santa Barbara Botanic Garden, Santa Barbara, CA. 19 pp.

2021:

Journal Articles (peer reviewed):

Allen, J., R. Yahr, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Villella. 2021. *Canoparmelia caroliniana*. The IUCN Red List of Threatened Species 2021: e.T194662208A194678189. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662208A194678189.en>

Allen, J., R. Yahr, C. Lymbery, R. Batallas-Molina, F. Bungartz, L. Calabria, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, H. Paquette, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Villella. 2021. *Flavoparmelia baltimorensis*. The IUCN Red List of Threatened Species 2021: e.T194662214A194678194. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662214A194678194.en>

Allen, J., R. Yahr, C. Lymbery, R. Batallas-Molina, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Villella. 2021. *Melanohalea halei*. The IUCN Red List of Threatened Species 2021: e.T194662493A194678204. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662493A194678204.en>

Allen, J., R. Yahr, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, M. Hodges, J. Lendemer, T. McMullin, A. Mertens, H. Paquette, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, A. Spielmann, & J. Villella. 2021. *Parmotrema perforatum*. The IUCN Red List of Threatened Species 2021: e.T194661584A194678159. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194661584A194678159.en>

Etter, K.J., G. Junquera, J. Horvet-French, R. Alarcón, K.-L.J. Hung, & D.A. Holway 2021. Interspecific pollen transport between non-native fennel and an island endemic

- buckwheat: Assessment of the magnet effect. *Biological Invasions*, 24(1), 139–155.
<https://doi.org/10.1007/s10530-021-02626-0>
- Gill, K.M.**, T.J. Braje, K. Smith, & J.M. Erlandson. 2021. Earliest evidence for geophyte use in North America: 11,500-year old archaeobotanical remains from California’s Santarosae Island. *American Antiquity* 86(3): 625-637. Doi: 10.1017/aaq.2021.31
- Guilliams, C.M., K. Hasenstab-Lehman**, J. Bailey, & M. Bailey. 2021. Noteworthy collection, California, *Cyrtomium falcatum*, Santa Cruz Island. *Madroño* 68(2): 67-68.
- Guilliams, C.M.** 2021. *Gravelia*, in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=84715.
- Guilliams, C.M. & K.E. Hasenstab-Lehman.** 2021. *Simpsonanthus*, in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=82940.
- Guilliams, C.M. & R.B. Kelley.** 2021. *Pectocarya* in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=8762
- Gusick, A.G., J. Perry, **K.M. Gill**, & W. Teeter. 2021. A trans-holocene approach to assess maritime development on the California Channel Islands archipelago: A case study from Eel Point, San Clemente Island. *Quaternary International* 597: 37-49.
- K.E. Hasenstab-Lehman**, R.B. Kelley, & M.G. Simpson. 2021. *Oreocarya*, in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=68980.
- Kelley, R.B. & **C.M. Guilliams.** 2021. *Plagiobothrys*, in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=8764.
- Kelley, R.B., **K.E. Hasenstab-Lehman**, & M.G. Simpson. 2021. *Greeneocharis*, in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=68572.
- Koçillari, L., M.E. Olson, S. Suweis, R.P. Rocha, A. Lovison, F. Cardin, T.E. Dawson, A. Echeverría, A. Fajardo, S. Lechthaler, C. Martínez-Pérez, C.R. Marcatti, K.-F. Chung, J.A. Rosell, A. Segovia-Rivas, **C.B. Williams**, E. Petrone-Mendoza, A. Rinaldo, T. Anfodillo, J.R. Banavar, & A. Maritan. 2021. The Widened Pipe Model of plant hydraulic evolution. *Proceedings of the National Academy of Sciences* 118:e2100314118.
- Reese Næsborg, R.**, M.K. Lau, R. Michalet, **C.B. Williams**, & T.G. Whitham. 2021. Tree genotypes affect rock lichens and understory plants: examples of trophic-independent interactions. *Ecology* 103(2): e03589.
- Reese Næsborg, R.** 2021. *Calicium sequoiae*. The IUCN Red List of Threatened Species 2021: e.T180412795A184974492. <https://www.iucnredlist.org/species/180412795/184974492>
- Schneider, H.E., S.A. Carson, & S.E. Termondt.** 2021. Smoke-induced germination in the endangered *Eriodictyon capitatum* (Namaceae). *Madroño* 68:87–98.
- Simpson, M.G., **C.M. Guilliams**, **K.E. Hasenstab-Lehman**, & R.B. Kelley. 2021. *Boraginaceae*, in

- Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9,
https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=69.
- Simpson, M.G., **K.E. Hasenstab-Lehman**, M.E. Mabry, & R.B. Kelley. 2021. *Cryptantha*, in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9,
https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=10465.
- Simpson, M.G., **K.E. Hasenstab-Lehman** & Ronald B. Kelley. 2021. *Johnstonella*, in Jepson Flora Project (eds.) *Jepson eFlora*, Revision 9,
https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=99958.
- Williams, C.B., R. Reese Næsborg**, A.R. Ambrose, W.L. Baxter, G.W. Koch, & T.E. Dawson. 2021. The dynamics of stem water storage in the tops of Earth's largest trees—*Sequoiadendron giganteum*. *Tree Physiology* 41(12): 2262–2278. DOI: 10.1093/treephys/tpab078
- Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, H. Paquette, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Vilella. 2021. *Parmelia saxatilis*. The IUCN Red List of Threatened Species 2021: e.T194660573A194678129.
<https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660573A194678129.en>
- Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Vilella. 2021. *Parmelia squarrosa*. The IUCN Red List of Threatened Species 2021: e.T194660642A194678134. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660642A194678134.en>
- Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, H. Paquette, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Vilella. 2021. *Parmeliopsis ambigua*. The IUCN Red List of Threatened Species 2021: e.T194660719A194678139.
<https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660719A194678139.en>
- Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, H. Paquette, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Vilella. 2021. *Parmeliopsis hyperopta*. The IUCN Red List of Threatened Species 2021: e.T194660868A194678144.
<https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660868A194678144.en>
- Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, J. Lendemer, T. McMullin, A. Mertens, H. Paquette, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, A. Spielmann, R. Vargas, & J. Vilella. 2021. *Parmotrema crinitum*. The IUCN Red List of Threatened Species 2021: e.T194661476A194678149.
<https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194661476A194678149.en>
- Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, J.

Lendemer, T. McMullin, A. Mertens, H. Paquette, M. Petix, **R. Reese Næsborg**, F. Roberts, S. Sharrett, & J. Villella. 2021. *Parmotrema hypotropum*. The IUCN Red List of Threatened Species 2021: e.T194661553A194678154.
<https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194661553A194678154.en>

Technical Reports and non-peer reviewed articles

- Collins, P.W., **D.A. Knapp**, & **K. Etter**. 2021. Channel Islands birds: A gap analysis of specimen and observation data. Unpublished report prepared for The Nature Conservancy by the Santa Barbara Botanic Garden, Santa Barbara, California. 36 pp.
- Guilliams, C.M., & K.E. Hasenstab-Lehman**. 2021. Conservation genomics of the endangered Indian Knob mountainbalm (*Eriodictyon altissimum*, Namaceae). Unpublished report to US Fish and Wildlife Service. Santa Barbara, CA. 27 pp.
- Guilliams, C.M., K.E. Hasenstab-Lehman, J. Lesage, K. Etter, & D. Knapp**. 2021. Gap analysis of the California Channel Islands: Vascular plants. Unpublished report prepared for The Nature Conservancy by Santa Barbara Botanic Garden, Santa Barbara, California. 56 pp.
- Hasenstab-Lehman, K.E., Guilliams, C.M., McEachern, K.A., & Thompson, D.A.** 2021. Using genetics data to guide conservation actions for the endangered single-island endemic plant *Castilleja mollis* Pennel (soft-leaved island paintbrush). Unpublished report to US Fish and Wildlife Service. Santa Barbara, CA. 15 pp.
- Knapp, D.** 2021. 2021 annual report to U.S. Fish and Wildlife Service: *Diplacus vandenbergensis*. Cooperative Agreement Award F19AC00721 (“Recovery actions for two endangered plant species”). Santa Barbara Botanic Garden, Santa Barbara, California. 10 pp.
- Knapp, D. & M. Ball.** 2021. Burton Mesa Ecological Reserve invasive plant management project. Unpublished final report prepared for Santa Barbara County Planning and Development Department. 19 pp.
- Knapp, D., B.V. Brown, K. Etter, and C. Richart.** 2021. Channel Islands invertebrates: A gap analysis of specimen and observation data. Unpublished report prepared for The Nature Conservancy by Santa Barbara Botanic Garden, Santa Barbara, California. 128 pp.
- Knapp, D. & S. Calloway.** 2021. Conservation of *Chloropyron maritimum* subsp. *maritimum*, salt marsh bird’s beak. Unpublished final report prepared for the U.S. Fish and Wildlife Service, Ventura, by the Santa Barbara Botanic Garden: Annual report for 2020. Santa Barbara, California. 16 pp.
- Knapp, D., P.W. Collins, and K. Etter.** 2021. Channel Islands mammals: A gap analysis of specimen and observation data. Unpublished report prepared for The Nature Conservancy by the Santa Barbara Botanic Garden, Santa Barbara, California. 28 pp.
- Knapp, D.A., K. Etter, C. Richart, & J. Lesage.** 2021. Flower visitors of *Deinandra increscens* ssp. *villosa*: 2020 findings report. Unpublished report prepared for Dudek by the Santa

- Barbara Botanic Garden, Santa Barbara, CA. 35 pp.
- Pauly, G.B., **D. Knapp, and K. Etter**. 2021. Assessing the history of reptile and amphibian specimen collecting on California's Channel Islands. Unpublished report prepared for The Nature Conservancy by Santa Barbara Botanic Garden, Santa Barbara, California. 33 pp.
- Reese Næsborg, R.** 2021. Recovery of *Dudleya verity* K. Nakai after severe fire by reestablishment of lichen communities. Santa Barbara Botanic Garden, Santa Barbara, CA. 8 pp.
- Reese Næsborg, R.** 2021. Gap analysis of California Channel Islands: Lichens. Santa Barbara Botanic Garden, Santa Barbara, California. 36 pp.
- Schneider, H.E., K.M. Mason & S.A. Carson**. 2021. A comprehensive collaborative project to recover 14 listed plant species on the Channel Islands – 2021 annual report. Unpublished report to the California Department of Fish & Wildlife, Santa Barbara Botanic Garden, Santa Barbara, CA. 60 pp.

2020:

Journal Articles (peer reviewed):

- Carlquist, S.** & M.E. Olson. Wood anatomy of Argophyllaceae (Asterales): Adaptation in a small clade. *Aliso* 38(1): 62-75.
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