



## 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 we directly facilitated.

### 2019:

#### Books and Book Chapters:

**Gill, K.M.**, M. Fauvelle, and J.M. Erlandson, eds. 2019. An archaeology of abundance: Reevaluating the marginality of California's islands. University Press of Florida, Gainesville, FL. 326 pages.

Ainis, A.F., J.M. Erlandson, **K.M. Gill**, M.H. Graham, and R.L. Vellanoweth. 2019. The potential use of seaweeds and marine plants by native peoples of Alta and Baja California: Implications for "marginal" island ecosystems. In *An archaeology of abundance: Re-evaluating the marginality of California's Islands*, edited by K.M. Gill, M. Fauvelle, and J.M. Erlandson, pp. 135-170. Gainesville: University Press of Florida.

Braje, T.J., J.M. Erlandson, **K.M. Gill**, T.C. Rick, L. Bentz, and P. Collins. 2019. Historical degradation and ecological recovery: Evaluating the marginality of California Island ecosystems. In *An archaeology of abundance: Re-evaluating the marginality of California's Islands*, edited by K.M. Gill, M. Fauvelle, and J.M. Erlandson, pp. 31-58. Gainesville: University Press of Florida.

Erlandson, J.M., **K.M. Gill**, and M. Fauvelle. 2019. Responding to stress or coping with abundance? Reexamining the marginality of the California Islands for maritime hunter-gatherers. In *An archaeology of abundance: Re-evaluating the marginality of California's Islands*, edited by K.M. Gill, M. Fauvelle, and J.M. Erlandson, pp. 1-30. Gainesville: University Press of Florida.

Erlandson, J.M., **K.M. Gill**, J.E. Perry, R.L. Vellanoweth, and A. Yatsko. 2019. Mineral resources

on the islands of Alta and Baja California: Evaluating the marginality of islands through space and time. In *An archaeology of abundance: Re-evaluating the marginality of California's Islands*, edited by K.M. Gill, M. Fauvelle, and J.M. Erlandson, pp. 171-190. Gainesville: University Press of Florida.

**Gill, K.M.**, J.M. Erlandson, K. Niessen, K. Hoppa, and D. Merrick. 2019. Where carbohydrates were key: Reassessing the marginality of terrestrial plant resources on the California Islands. In *An archaeology of abundance: Re-evaluating the marginality of California's Islands*, edited by K.M. Gill, M. Fauvelle, and J.M. Erlandson, pp. 98-134. Gainesville: University Press of Florida.

Journal Articles (peer reviewed):

Braje, T.J., J.M. Maloney, A.E. Gusick, J.M. Erlandson, A. Nyers, L. Davis, **K.M. Gill**, L. Reeder-Myers, and D. Ball. 2019. Working from the known to the unknown: Linking the subaerial archaeology and the submerged landscapes of Santarosae Island, Alta California, USA. *Open Quaternary* 5:10.

Erlandson, J.M., T.C. Rick, A.F. Ainis, T.J. Braje, **K.M. Gill**, and L. Reeder-Myers. 2019. Late Pleistocene estuaries, paleoecology, and humans on North America's Pacific Coast. *Antiquity*. In Press.

Erlandson, J.M., T.J. Braje, and **K.M. Gill**. 2019. A paleocoastal site complex from Santarosae Island, California. *PaleoAmerica*. DOI: 10.1080/20555563.2019.1653157.

Erlandson, J.M., T.C. Rick, A. Ainis, **K.M. Gill**, N.P. Jew, and L.A. Reeder-Myers. 2019. Shellfish, geophytes, and sedentism on Early Holocene Santa Rosa Island, Alta California, USA. *Journal of Island and Coastal Archaeology*. Published online 27 Mar 2019. DOI: 10.1080/15564894.2019.1579272.

Escudero, N., J. Gasca-Pineda, R. Bello, **C.M. Guilliams**, and M.C. Arteaga 2019. Genetic and phenotypic diversity of *Branchinecta sandiegonensis* in the vernal pools of Baja California, México. *Zootaxa* 4646(1): 145-163.

**Gill, K.M.**, J.M. Erlandson, R.E. Hughes, T. Origer, A.K. Rogers, and R.L. Vellanoweth. 2019. Material conveyance in the Southern California Bight: Obsidian on Alta California's Channel Islands. *Journal of Island and Coastal Archaeology*. Published online 27 Mar 2019, DOI: 10.1080/15564894.2019.1570988.

- Kofron, C.P., C. Rutherford, L.E. Andreano, M.J. Walgren and **H.E. Schneider**. 2019. Status of the endangered Indian Knob mountainbalm *Eriodictyon altissimum* (Nemaceae) in central coastal California. Bulletin of the Southern California Academy of Sciences 118: 21-41.
- Reese Næsborg, R.**, Peterson, E.B., Tibell, L. 2019. *Chaenotheca longispora* (Coniocybaceae), a new lichen from coast redwood trees in California, U.S.A. The Bryologist 122: 31–37.
- Wilken, D.** 2019. Reassessment and circumscription of *Ipomopsis multiflora* and *Ipomopsis polyantha* (Polemoniaceae). Madrono 66: 87-91.

#### Symposium Proceedings:

- Knapp, D.A.**, J.J. Knapp, K.A. Stahlheber, and T. Dudley. 2019. A little goes a long way when controlling invasive plants for biodiversity conservation. Pp. 643-650 In: C.R. Veitch, M.N. Clout, A.R. Martin, J.C. Russell, and C.J. West (eds.). Island invasives: Scaling up to meet the challenge. Occasional Paper SSC no. 62, Gland, Switzerland: IUCN.

#### Technical Reports and non-peer reviewed articles

- Knapp, D.** and **S. Calloway**. 2019. Illuminating botanical blackholes to inform habitat restoration in the Zaca and Jesusita fire scars. Unpublished final report prepared for the National Fish and Wildlife Foundation by the Santa Barbara Botanic Garden. Santa Barbara, California.
- Hasenstab-Lehman, K.E.** and **C.M. Guilliams**. 2019. Draft report on the conservation genetics of beach spectaclepod (*Dithyrea maritima* (Davison) Davison; Brassicaceae). Unpublished report submitted to the California Department of Fish and Wildlife.
- Schneider, H.E.** and **S.A. Carson**. 2019. Lompoc yerba santa (*Eriodictyon capitatum*) germination study - Final Project Report 2019. Unpublished Report, Santa Barbara Botanic Garden, Santa Barbara, CA. 13 pp.
- Schneider, H.E.** 2019. Rare plant survey and data management – project final report. Unpublished Report, Santa Barbara Botanic Garden, Santa Barbara, CA. 17 pp.

#### **2018:**

#### Books and Book Chapters:

- Maschinski, J., C. Walters, E. Guerrant, S. Murray, M. Kunz, H. Schneider, J. Affolter, T Gurnoe, N. Fraga, K. Havens, P. Vitt, K.D. Heineman and C. Horn. 2018. Collecting seeds from wild plant populations. Pages 1-10 – 1-23 *In* CPC Best plant conservation practices to support

species survival in the wild. Center for Plant Conservation, San Diego, CA.

Journal Articles (peer reviewed):

- Carlquist, S.** 2018. Living cells in wood 3. Overview; Functional anatomy of the parenchyma network. *Botanical Review* 84: 242-294.
- Carlquist, S.** and P.H. Raven. 2018. Vestured pits in wood of Onagraceae: Correlations with ecology, habit, and phylogeny. *Annals of the Missouri Botanical Garden* 103(3): 443-461.
- Carlquist, S.** 2018. "Primitive" wood characters are adaptive: Examples from Paracryphiaceae. *Aliso* 36: 1-20.
- Carlquist, S.** 2018. Wood anatomy of Atherospermataceae and allies: Strategies of wood evolution in basal Angiosperms. *Allertonia* 17: 1-52.
- Carter, B.E., W.F. Hoyer, III, J. Dunn, **S. Junak**, and **C.M. Guilliams** 2018. New additions to the flora of San Nicolas Island, Ventura County, California. *Aliso* 36: 1-6.
- Carter, B.E. and **C.M. Guilliams** 2018. Biogeographic patterns among seed-bearing and spore-bearing plants across the California Channel Islands. *Western North American Naturalist* 78(4): 699-710.
- Hoyer, W.III, J. Knapp, **D. Knapp**, D. Mazurkiewicz, K. Owen, L. Luna-Mendoza, and K. McEachern. 2018. Islands of the Californias Botanical Collaborative. *Western North American Naturalist* 78(4): 902-909.
- Mack, J.S., **H.E. Schneider**, and K.H. Berry. 2018. Crowding affects health, growth, and behavior in headstart pens for Agassiz's desert tortoise. *Chelonian Conservation and Biology* 17: 14-26.
- Randall, J.R., K.McEachern, J. Knapp, P. Power, S. Junak, **K. Gill**, **D. Knapp**, and **M. Guilliams**. 2018. Informing our successors: What botanical information for Santa Cruz Island will researchers and conservation managers in the century ahead need the most? *Western North American Naturalist* 78(4): 888-901.
- Rick, T.C., T.J. Braje, J.M. Erlandson, **K.M. Gill**, L. Kirn, and L. McLaren-Dewey. 2018. Horizon scanning: Survey and research priorities for cultural, historical, and paleobiological resources of Santa Cruz Island, California. *Western North American Naturalist* 78(4): Article 43.
- Wilken, D.** 2016. Rarity, threats, and the conservation status of California geophytes. *Fremontia* 44: 20-26.

Technical Reports and non-peer reviewed articles

- Guilliams, C.M.** 2018. Naval Base Ventura County, San Nicolas Island Erosion Control Program Final Report: Results of surveys for *Dithyrea maritima* on San Nicolas Island. Cooperative Agreement Number N62473-14-2-00015. Unpublished report. Santa Barbara, California.
- Guilliams, C.M., A.I. Hernandez, and K. Hasenstab-Lehman.** 2018. Naval Base Ventura County, San Nicolas Island Erosion Control Program Final Report: Population genetic study of island mallow (*Malva assurgentiflora*) across the Channel Islands archipelago to assess provenance of plants from San Nicolas Island. Cooperative Agreement Number N62473-14-2-00015. Unpublished report. Santa Barbara, California.
- Holzman, B.A., G. Block, G.J. McChesney, J.A. Shore and Q. Clark.** 2018. Site-specific protocol for monitoring plants: Southeast Farallon Island, Farallon National Wildlife Refuge. Report prepared for the U.S. Fish and Wildlife Service, Farallon Islands National Wildlife Refuge. Santa Barbara Botanic Garden, Santa Barbara, CA.
- Knapp, D.A., F. Light, and C. Garoutte.** 2018. Naval Base Ventura County, San Nicolas Island erosion control program final report: *Mesembryanthemum crystallinum* impacts and habitat restoration. Cooperative Agreement N62473-14-2-0005. Santa Barbara Botanic Garden, Santa Barbara, California.
- Schneider, H.E., S.E. Termondt, and C.M. Guilliams.** 2018. Rare plant surveys and conservation seed collections in the California Floristic Province in Baja California, Mexico final report. Unpublished report, Santa Barbara Botanic Garden. 13 pp.
- Schneider, H.E., S.E. Termondt, H. Federlein.** 2018. *Sanicula maritima* (adobe sanicle) root propagation study. Unpublished report, Santa Barbara Botanic Garden, Santa Barbara, CA. 23 pp.

## **2017:**

### **Books and Book Chapters:**

- Riley, J. with contributions by S. Alfaro, M.C. Arteaga, **C.M. Guilliams, K.E. Hasenstab-Lehman, A. Garcia Peralta, and J. Simancas.** 2017. A Field Guide to the Vernal Pools of Baja California, Mexico. Jardín Botánico de San Quintín, San Quintín.

### **Journal Articles (peer reviewed):**

- Carlquist, S.** 2017. Conifer tracheids resolve conflicting structural requirements: Data, hypothesis, questions. Journal of the Botanical Research Institute of Texas 11(1): 123-141.
- Carlquist, S. and **C.M. Guilliams** 2017. Distinctive wood anatomy of the root-parasitic family Lennoaceae (Boraginales). IAWA Journal 38 (1): 3-12.

- Erlandson, J.M., **K.M. Gill**, A. Gusick, and A.E. Dorrler. 2017. Identifying shell middens with historic aerial photos: An example from California's Santa Cruz Island. *Journal of Island and Coastal Archaeology*, DOI: 10.1080/15564894.2017.1324926.
- Guilliams, C.M., K.E. Hasenstab-Lehman**, M. Mabry, and M.G. Simpson 2017. Memoirs of a frequent flier: phylogenomics reveals 18 long-distance dispersals in the popcorn flowers (Amsinckiinae, Boraginaceae). *American Journal of Botany*, Special Issue on American Amphitropical Disjunction, 104: 1717-1728.
- Hasenstab-Lehman, K.E.** 2017. Phylogenetics of the borage family: delimiting Boraginaceae and assessing closest relatives. *Aliso* 35(1) 41-49.
- Simpson, M.G., **C.M. Guilliams, K.E. Hasenstab-Lehman**, M. Mabry, L. Ripma 2017. Phylogeny of the popcorn flowers: Use of genome skimming to evaluate monophyly and interrelationships in subtribe Amsinckiinae (Boraginaceae). *Taxon* 66 (6): 1406-1420.
- Simpson, M.G., L. Johnson, T. Villaverde, and **C.M. Guilliams** 2017. American amphitropical disjunct plants: insights and recent evidence. *American Journal of Botany*, Special Issue on American Amphitropical Disjunction, 104: 1600-1650.
- Simpson, M.G., **C.M. Guilliams**, L. Johnson 2017. Patterns and processes of American amphitropical disjunctions: new insights. *American Journal of Botany*, Special Issue on American Amphitropical Disjunction, 104: 1597-1599.

#### Technical Reports and non-peer reviewed articles

- Guilliams, C.M.**, B.E. Carter, M.L. Ceceña Sánchez, J. Delgadillo, B. Holzman, S. Junak, **D. Knapp**, L.L. Mendoza, and S. Vanderplank. 2017. The remarkable flora of California Islands. *Fremontia* 45(3): 5-11. <https://grownatives.cnps.org/2017/12/07/islands-of-the-californias/>.
- Knapp, D.A.**, D.Borjes-Flores, P. Dixon, W. Hoyer, J. Knapp, L. Luna, K. McEachern, J. Montoya, B. Munson, P. Power, and J. Randall. 2017. The future of California Islands conservation in a changing world. *Fremontia* 45(3).
- Knapp, D.** and **H. Schneider**. 2017. Conservation of salt marsh bird's beak (*Chloropyron maritimum* subsp. *maritimum*). Unpublished final report prepared for the U.S. Fish and Wildlife Service, Ventura, by the Santa Barbara Botanic Garden. Santa Barbara, California.
- McEachern, K., P. Dixon, E. Havstad, W. Hoyer, **D. Knapp**, J. Knapp, L. Luna-Mendoza, B. Munson, and **H. Schneider**. 2017. The struggle for recovery. *Fremontia* 45: 32-36.
- Schneider, H.E.** and S.M. Calloway. 2017. Habitat management and post-fire rehab for Vandenberg AFB, California: *Eriogonum parvifolium* surveys – Final Report 2017. Unpublished report, Santa Barbara Botanic Garden, Santa Barbara, CA. 20 pp.
- Schneider, H.E.** and **S.M. Calloway**. 2017. Habitat Management for Vandenberg AFB, California: *Layia carnosa* surveys – Final Report 2017. Unpublished report, Santa Barbara Botanic Garden, Santa Barbara, CA. 17 pp.

**Schneider, H.E.** 2017. Final Report – *Sanicula maritima* (adobe sanicle) seed germination study. Unpublished report, Santa Barbara Botanic Garden, Santa Barbara, CA. 7 pp.

**2016:**

Books and Book Chapters:

Schlising, R., E. Gottschalk Fisher, **C.M. Guilliams** eds. 2016. Vernal Pools in Changing Landscapes. Studies from the Herbarium, Number 18, California State University, Chico.

Journal Articles (peer reviewed):

Burge, D., J. Rebman, M. Mulligan, and **D. Wilken**. 2017. Three edaphic-endemic *Ceanothus* (Rhamnaceae) new to Science. Systematic Botany 42: 529-542.

Burge, D, K. Zhukovsky, and **D. Wilken**. 2016. A taxonomic conspectus of *Ceanothus* subgenus *Cerastes* (Rhamnaceae). Systematic Botany 40: 950-961.

**Carlquist, S.** 2016. Wood anatomy of Brassicales: new information, evolutionary concepts. Botanical Review 82: 24-90.

**Carlquist, S.** and M. Nazare. 2016. SEM studies of two riparian New Caledonian conifers reveal air channels in stem. Wood; Field observations. Aliso 34: 1-7.

Chacón, J., F. Luebert, H. Hilger, S. Ovchinnikova, F. Selvi, L. Cecchi, **C.M. Guilliams, K. Hasenstab-Lehman**, K. Sutorý, M.G. Simpson, M. Weigend 2016. The borage family (Boraginaceae s.str.): A revised infrafamilial classification based on new phylogenetic evidence, with emphasis on the placement of some enigmatic genera. Taxon 65 (3): 523-546.

Dvorak, T.M, A. Catalano, and **C.M. Guilliams**. 2016. Monitoring within non-native ungulate enclosures documents the inherent size of *Crocantenum greenei* (Cistaceae). Phytokeys 70: 11-16 (doi; 10.3897/phytokeys.70.9363).

**Gill, K.M.** 2016. 10,000 years of geophyte use among the island Chumash of the northern Channel Islands. Fremontia 44(3): 34-38.

**Guilliams, C.M., K. Hasenstab-Lehman**, José Delgadillo, B.G. Baldwin 2016. Vernal pool landscapes of Baja California, México: an on-going project to assess vernal pool loss and protect what remains. Studies from the Herbarium, Number 18, California State University, Chico.

**Guilliams, C.M.**, T. Jang, and B.G. Baldwin 2016. Molecular and morphological evidence for recognition of two species within *Harpagonella* (Amsinckiinae, Boraginaceae). Phytokeys 70: 17-30 (doi: 10.3897/phytokeys.70.9053).

Luebert, F., L. Cecchi, M.W. Frohlich, M. Gottschling, **C.M. Williams**, **K.E. Hasenstab-Lehman** and 15 others 2016. Familial classification of the Boraginales. *Taxon* 65 (3): 502-522.

Schneider, A.C., W.A. Freyman, **C.M. Williams**, Y.P. Springer, B.G. Baldwin 2016. Pleistocene radiation of the serpentine-adapted genus *Hesperolinon* and other divergence times in Linaceae (Malpighiales). *American Journal of Botany* 103: 221-232.

#### Technical Reports and non-peer reviewed articles

**Williams, C.M.** 2016. Madroño Vol. 63 Dedication to Michael G. Simpson. *Madroño* 63(1): 1-2.

#### 2015:

##### Journal Articles:

**Carlquist, S.** 2015. Living cells in wood 1: Absence, scarcity and histology of axial parenchyma as keys to function. *Botanical Journal of the Linnean Society* 177: 291-321.

**Carlquist, S.** 2015. Living cells in wood 2: Raylessness histology and evolutionary significance. *Botanical Journal of the Linnean Society* 178: 529-555.

Felger, R.S., S. Rutman, **C.M. Williams**, J. Malusa 2015. Ajo Peak to Tinajas Altas: Flora of Southwestern Arizona: Part 10, Eudicots: Berberidaceae, Bignoniaceae, and Boraginaceae. *Phytoneuron* 2015-1: 1-60.

#### Technical Reports and non-peer reviewed articles

**Williams, C.M.** 2015. The Lichens of the Channel Islands: new book project uses Garden herbarium. *Ironwood* 23 (2): 3.

**Williams, C.M.** 2015. The Flora of Santa Catalina Island: A partnership between the Santa Barbara Botanic Garden and the Catalina Island Conservancy. *Ironwood* 22 (4): 4-5.

#### 2014:

##### Journal Articles:

**Carlquist, S.** 2014. Fibre dimorphism: Cell type diversification as an evolutionary strategy in angiosperm woods. *Botanical Journal of the Linnean Society* 174: 44-67.

**Carlquist, S.** 2014. Origins and nature of vessels in monocotyledons. 14. Vessellessness in Orontioideae (Araceae): adaptation or relictualism? *Nordic Journal of Botany* (with Edward L. Schneider).



- Guilliams, C.M.** and J.M. Miller 2014. *Calandrinia*, in Jepson Flora Project (eds.) *Jepson eFlora*, [http://ucjeps.berkeley.edu/cgi-bin/get\\_IJM.pl?tid=16615](http://ucjeps.berkeley.edu/cgi-bin/get_IJM.pl?tid=16615), accessed on Dec 23 2014.
- Guilliams, C.M.** and J.M. Miller 2014. *Calyptridium*, in Jepson Flora Project (eds.) *Jepson eFlora*, [http://ucjeps.berkeley.edu/cgi-bin/get\\_IJM.pl?tid=16845](http://ucjeps.berkeley.edu/cgi-bin/get_IJM.pl?tid=16845), accessed on Dec 23 2014.
- Knapp, D.A.** 2014. Ecosystem restoration on Santa Catalina Island: A review of potential approaches and the promise of bottom-up invader management. *Monographs of the Western North American Naturalist* 7: 421-434.

#### Technical Reports and non-peer reviewed articles

- Corona, G., **C.M. Guilliams** and S. Vanderplank 2014. Evaluación del riesgo de extinción de *Centromadia perennis* Greene de acuerdo al numeral 5.7 de la NOM-059-SEMARNAT-2010. Prepared for Sociedad de Plantas Nativas de Baja California. 17 pages.
- Corona, G., **C.M. Guilliams** and S. Vanderplank 2014. Evaluación del riesgo de extinción de *Adenothamnus validus* (Brandege) D.D. Keck de acuerdo al numeral 5.7 de la NOM-059-SEMARNAT-2010. Prepared for Sociedad de Plantas Nativas de Baja California. 20 pages.
- Corona, G., **C.M. Guilliams** and S. Vanderplank 2014. Evaluación del riesgo de extinción de *Chenopodium flabellifolium* Standley de acuerdo al numeral 5.7 de la NOM-059-SEMARNAT-2010. Prepared for Sociedad de Plantas Nativas de Baja California. 21 pages.
- Corona, G., **C.M. Guilliams** and S. Vanderplank 2014. Evaluación del riesgo de extinción de *Dudleya anthonyi* Rose de acuerdo al numeral 5.7 de la NOM-059-SEMARNAT-2010. Prepared for Sociedad de Plantas Nativas de Baja California. 21 pages.
- Corona, G., **C.M. Guilliams** and S. Vanderplank 2014. Evaluación del riesgo de extinción de *Eryngium aristulatum* Jeps. var. *parishii* (J.M. Coult. y Rose) Mathias y Constance de acuerdo al numeral 5.7 de la NOM-059-SEMARNAT-2010. Prepared for Sociedad de Plantas Nativas de Baja California. 24 pages.
- Corona, G., **C.M. Guilliams** and S. Vanderplank 2014. Evaluación del riesgo de extinción de *Navarretia fossalis* Moran, de acuerdo al numeral 5.7 de la NOM-059-SEMARNAT-2010. Prepared for Sociedad de Plantas Nativas de Baja California. 24 pages.

#### **2013:**

##### Journal Articles:

- Carlquist, S.** 2013. More woodiness/ less woodiness: Evolutionary avenues, ontogenetic mechanisms. *International Journal of Plant Science* 174(7): 964-991.
- Carlquist, S.,** B.F. Hansen, H.H. Iltis, M.E. Olson, and D.L. Geiger. 2013. *Forchhammeria* and *Stixis* (Brassicales): Stem and wood anatomical diversity, ecological and phylogenetic

conclusions. *Aliso* 31: 59-75.

## **2012:**

### Books and Book Chapters:

Baldwin, B., D. Goldman, D. Keil, R. Patterson, T. Rosatti, and **D. Wilken** (eds.). 2012. *The Jepson Manual*, 2nd Edition. University of California Press, Berkeley. 1568 pages.

**Muller, R.N.** 2012. Nutrient relations of the herbaceous layer in deciduous forest ecosystems. *in* F. S. Gilliam and M. R. Roberts (eds.). *Ecology of the Herbaceous Layer of Forests of Eastern North America*. 2<sup>nd</sup> Edition. Oxford University Press.

### Journal Articles:

**Carlquist, S.** 2012. Monocot xylem revisited: new information, new paradigms. *The Botanical Review* 78:1-67.

## **2011:**

### Journal Articles:

Burge, D.O., D. M. Erwin, M. B. Islam, J. Kellermann, S. S. Kembel, P. S. Manos, and **D. H. Wilken**. 2011. Diversification of *Ceanothus* (Rhamnaceae) in the California Floristic Province. *International Journal of Plant Science* 172:1137-1164.

**Carlquist, S.** and E.L. Schneider. 2011. *Equisetum* xylem: SEM studies and their implications. *American Fern Journal* 101:133-141.

Gallo, T. and **S. Windhager**. 2011. Accepting 'The New Normal'? Not so fast... *Conservation Magazine*, Spring 2011.

Haller, J.R. and N. J. Vivrette. 2011. Ponderosa pine revisited. *Aliso* 29:53-57.

McEwan, R.W. and **R.N. Muller**. 2011. Dynamics, diversity and resource gradient relationships in the herbaceous layer of an old-growth Appalachian forest. *Plant Ecology* 212:1179-1191.

Simmons, M., M. Bertelsen, **S. Windhager**, and H. Zafian. 2011. The performance of native and non-native turfgrass monocultures and native turfgrass polycultures: An ecological approach to sustainable lawns. *Ecological Engineering* 37:1095-1103.

### Symposium Proceedings:

McEachern, K. and **D. Wilken**. 2011. Nine endangered taxa, one recovering ecosystem:

Identifying common ground for recovery on Santa Cruz Island, California. Proceedings of the CNPS Conservation Conference, Pages 162-167, California Native Plant Society.

**Wilken, D.** and K. McEachern. 2011. Experimental reintroduction of the federally endangered Santa Cruz Island bush mallow (*Malacothamnus fasciculatus* var. *nesioticus*). Proceedings of the CNPS Conservation Conference, Pages 410-418, California Native Plant Society.

## **2010:**

### Journal Articles:

**Carlquist, S.** 2010. Caryophyllales: A key group for understanding wood anatomy character states and their evolution. *Botanical Journal of the Linnean Society* 164:342–393.

**Carlquist, S.** and **E.L. Schneider.** 2010. Origins and nature of vessels in monocotyledons. 11. primary xylem microstructure, with examples from Zingiberales. *International Journal of Plant Sciences* 171:258-266.

**Carlquist, S.** and **E.L. Schneider.** 2010. Origins and nature of vessels in monocotyledons. 12. Pit membrane microstructure diversity in tracheary elements of *Astelia*. *Pacific Science* 64:607-618.

**Muller, R.N.** and C. Bornstein. 2010. Maintaining the diversity of California's municipal forests. *Arboriculture and Urban Forestry* 36:18-27.

Porter, J.M., L. Johnson, and **D. Wilken.** 2010. Phylogenetic systematics of *Ipomopsis* (Polemoniaceae): relationships and divergence times estimated from chloroplast and nuclear DNA sequences. *Systematic Botany* 35: 181-200.

**Windhager, S.,** F. Steiner, M. Simmons, and D. Heymann. 2010. Towards ecosystem services as a basis for design. *Landscape Journal* 29:107-123.

### Technical Reports

**Muller, R.** and **S. Junak.** 2010. Final Report for 2009-2010 Sensitive Plant Species on Target Areas at Naval Air Facility El Centro, El Centro, California. Report prepared for U.S. Navy. Santa Barbara Botanic Garden, Santa Barbara, CA. 58 Pages

## **2009:**

### Journal Articles:

**Carlquist, S.** 2009. Darwin on island plants. *Botanical Journal of the Linnean Society.* 161:20–25.

**Carlquist, S.** 2009. Non-random vessel distribution in woods: patterns, modes, diversity,

correlations. *Aliso* 27:39-58.

- Carlquist, S.** 2009. Xylem heterochrony: An unappreciated key to angiosperm origin and diversifications. *Botanical Journal of the Linnean Society* 161:26–65.
- Carlquist, S.** and **E.L. Schneider.** 2009. Distinctive tracheid microstructure in stems of *Victoria* and *Euryale* (Nymphaeaceae). *Botanical Journal of the Linnean Society* 159:52–57.
- Carlquist, S.** and **E.L. Schneider.** 2009. Do tracheid microstructure and the presence of minute crystals link Nymphaeaceae, Cabombaceae and Hydatellaceae? *Botanical Journal of the Linnean Society* 159:572–582.
- Schneider, E.L., S. Carlquist,** and C.B. Hellquist. 2009. Microstructure of tracheids of *Nymphaea*. *International Journal of Plant Sciences* 170:457-466.
- Carlquist, S.** and **E.L. Schneider.** 2009. Xylem of early angiosperms: Novel microstructure in stem tracheids of *Barclaya* (Nymphaeaceae). *Aquatic Botany* 91:61–66.
- Carlquist, S., E.L. Schneider,** and C.B. Hellquist. 2009. Xylem of early angiosperms: *Nuphar* (Nymphaeaceae) has novel tracheid microstructure. *American Journal of Botany* 96:207-215.

#### Symposium Proceedings

- Drost, C. and **S. Junak.** 2009. Colonizers, waifs, and stowaways: Arrival of new plant species on Santa Barbara Island over a 30-Year period. Pages 215-228 in D. Garcelon and C. Damiani (eds). *Proceedings of the Seventh California Islands Symposium*, Oxnard, California, February 5-8, 2008. Institute for Wildlife Studies, Arcata, CA.

#### Technical Reports

- Wilken, D., R. Muller,** and **S. Junak.** 2009. Threatened and Endangered Plant Surveys: La Graciosa thistle (*Cirsium loncholepis*), beach layia (*Layia carnosa*), marsh sandwort (*Arenaria paludicola*), and Gambel's watercress (*Nasturtium gambelii*). Report to Luanne Lum, Botanist, AFSPC 30 CES/CEVNN, Vandenberg Air Force Base. 32 Pages + GIS files, images, Appendices.

#### **2008:**

#### Books

- Junak, S.** 2008. A flora of San Nicolas Island, California. Santa Barbara Botanic Garden, Santa Barbara, CA. 235 pages.

## Technical Reports

**Wilken, D., R. Muller, and S. Junak.** 2008. Threatened and endangered plant surveys: La Graciosa thistle (*Cirsium loncholepis*), a federally endangered species. Report to Luanne Lum, Botanist, AFSPC 30 CES/CEVNN, Vandenberg Air Force Base. 13 Pages + GIS files, Appendices.

## 2007:

## Books and Book Chapters

**Junak, S.,** D. Knapp, J.R. Haller, **R. Philbrick,** A. Schoenherr, and T. Keeler-Wolf. 2007. The California Channel Islands. Pages 229-252 in M. Barbour, T. Keeler-Wolf, and A. Schoenherr (Editors). Terrestrial Vegetation of California (Third Edition). University of California Press, Berkeley, CA.

## Journal Articles:

**Carlquist, S.** 2007. Successive cambia in Aizoaceae: Products and process. Botanical Journal of the Linnean Society 153:141-155.

**Carlquist, S.** 2007. Bordered pits in ray cells and axial parenchyma: The histology of conduction, storage, and strength in living wood cells. Botanical Journal of the Linnean Society 153:157-168.

**Carlquist, S.** and **E.L. Schneider.** 2007. Origin and nature of vessels in monocotyledons. 9. Sansevieria. South African Journal of Botany 73:196-203.

**Carlquist, S.,** J. A. Rosell, M. E. Olson, and R. Aguire-Hernandez. 2007. Logistic regression in comparative wood anatomy: Tracheid types, wood anatomical terminology, and new inferences from the Carlquist and Hoekman southern Californian data set. Botanical Journal of the Linnean Society 154:331-351.

**Carlquist, S.** and **E.L. Schneider.** 2007. Tracheary elements in ferns: New techniques, observations, and concepts. American Fern Journal 97:199-211.

**Carlquist, S.** 2007. Wood anatomy of Crossosomatales: Patterns of wood evolution with relation to phylogeny and ecology. Aliso 24:1-18.

**Carlquist, S.** 2007. Successive cambia revisited: Ontogeny, histology, diversity, and functional significance. Journal of the Torrey Botanical Society 134:301-332.

**Carlquist, S.** and **E.L. Schneider.** 2007. Tracheary elements in ferns: New techniques, observations, and concepts. American Fern Journal 97:25-37.

- Carlquist, S., E.L. Schneider,** and C.B. Hellquist. 2007. Early stages in angiosperm evolution: *Nuphar* (Nymphaeaceae). *American Journal of Botany* 96:207-15.
- Carlquist, S., E.L. Schneider,** and K.F. Kenneally. Origins and nature of vessels in monocotyledons. 10. Boryaceae: Xeromorphic xylem construction in a resurrection plant. *Journal of the Royal Society of Western Australia* 91:13-20.
- Luna-Mendoza, L., A. Aguirre, B. Keitt, **S. Junak,** and B. Henry. 2007. The restoration of Guadalupe Island, revisited. *Fremontia* 35:14-17.
- Schneider, E.L., S. Carlquist,** and J.G. Chemnick. 2007. Scanning electron microscope studies of cycad tracheids. *South African Journal of Botany* 73:512-517.

## **2006:**

### **Books and Book Chapters:**

- Fross, D. and **D. Wilken.** 2006. *Ceanothus: In the landscape and the wild.* Timber Press, Portland, Oregon. 272 pages.

### **Journal Articles:**

- Carlquist, S.** 2006. *Asteropeia* and *Physena* (Caryophyllales): A case study in comparative wood anatomy. *Brittonia* 58:301-313.
- R.W. McEwan and **R.N. Muller.** 2006. Spatial and temporal dynamics in canopy dominance of an old-growth central Appalachian forest. *Canadian Journal of Forest Research* 36:1536–1550.
- Newman, G.S., M.A. Arthur, and **R.N. Muller.** 2006. Above- and belowground net primary production in a temperate mixed deciduous forest. *Ecosystems* 9:317-329.
- Schneider, E.L.,** and **S. Carlquist.** 2006. Origins and nature of vessels in monocotyledons. 8. Orchidaceae. *American Journal of Botany* 93:963-971.
- Wilken, D.** 2006. *Hulsea.* *Flora of North America.* 21:396-400.

### **Technical Reports**

- Junak, S.** and **R. Muller.** 2006. Distribution of selected invasive plant species on Commander Navy Region Southwest Installations in Central and Southern California. Technical Report 7. Santa Barbara Botanic Garden, Santa Barbara, CA. 77 pages.
- Junak, S.** 2006. Sensitive plant status survey, San Clemente Island, California. Technical Report 8. Santa Barbara Botanic Garden, Santa Barbara, CA. 176 pages.
- Gevirtz, E., J. Jackson, **S. Junak** et al. 2006. Alternative access study: Oceano Dunes State Vehicular Recreation Area. Condor Environmental Planning Services, Santa Barbara, CA. 317 pages.

## 2005:

### Symposium Proceedings

**Junak, S.,** B. Keitt, B. Tershy, D. Croll, L. Luna-Mendoza, A. and A. Aguirre-Munoz. 2005. Recent conservation efforts and notes on the current status of the flora of Guadalupe Island, Baja California, Mexico. Pages 83-93 *in* K. Santos del Prado and E. Peters (Editors). Isla Guadalupe: Restauracion y Conservacion. Instituto Nacional de Ecologia, Mexico, D.F.

### Journal Articles:

**Carlquist, S.** 2005. Wood and bark anatomy of Muntingiaceae: A phylogenetic comparison within Malvales s.l. *Brittonia* 57:59-67.

**Carlquist, S.** 2005. Origins and nature of vessels in monocotyledons. 7. Haemodoraceae and Philydraceae. *Journal of the Torrey Botanical Society* 132:377-383.

**Carlquist, S.** 2005. Wood anatomy of Krameriaceae with comparisons with Zygophyllaceae: Phylesis, ecology, and systematics. *Botanical Journal Linnean Society* 149:257-27.

**Carlquist, S.** and Jason R. Grant. 2005. Wood anatomy of Gentianaceae, tribe Helieae, in relation to ecology, habit, systematics, and sample diameter. *Brittonia* 57:276-291.

**Carlquist, S.** and **E. Schneider.** 2005. Vestigial pit membrane remnants in perforation plates and helical thickenings in vessels of Ericaceae. *Nordic Journal of Botany* 23:353-363.

Keitt, B., **S. Junak,** L. Luna-Mendoza, and A. Aguirre. 2005. The restoration of Guadalupe Island. *Fremontia* 33:20-25.

McEwan, R.W., **R.N. Muller** and B. C. McCarthy. 2005. Vegetation-environment relationships among woody species in four canopy-layers in an old-growth mixed mesophytic forest. *Castanea* 70:32-46.

McEwan, R.W., R.D. Paratley, **R.N. Muller,** and C. L. Riccardi. 2005. The vascular flora of an old-growth mixed mesophytic forest in southeastern Kentucky. *Journal of the Torrey Botanical Society* 132:618-627.

**Schneider, E.L., & S. Carlquist.** 2005. Origin and nature of vessels in monocotyledons. 6. Hanguana (Hanguanaceae). *Pacific Science* 59:393-398.

**Schneider, E.L.** and **S. Carlquist.** 2005. Origin and nature of vessels in Moncotyledons. 7. Philydraceae and Haemodoraceae. *Journal of the Torrey Botanical Society* 132:377-383.

**Wilken, D.** and J. M. Porter. 2005. Polemoniaceae of Arizona. *Canotia* 1:1-37.

## 2004:

### Books and Book Chapters:

- Wilken, D.** 2004. Polemoniaceae. Pages 300-312, *in* Kubitzki, K. The families and genera of vascular plants of the world. Volume VI.
- Wilken, D.** 2004. Polemoniaceae. Pages 304-306 *in* N. Smith, S. A. Mori, A. Henderson, D. W. Stevenson, S. V. Heald (eds.), Flowering plants of the neotropics. Princeton University Press, Princeton, New Jersey. 594 Pages
- Wilken, D.** 2004. Polemoniaceae. Pages 300-312 *in* K. Kubitzki (ed). The families and genera of vascular plants of the world. Volume VI. Springer Verlag, Berlin. 489 Pages
- Wilken, D.** 2004. Options for managing park natural history collecting and collections. Pages 395-397 *in* D. Harmon, B. Kilgore, and G. Vietzke (eds.). Protecting our diverse heritage: The role of parks, protected areas, and cultural sites. The George Wright Society, Hancock Michigan.

### Journal Articles:

- Carlquist, S.** 2004. Lateral meristems, successive cambia and their products: a reinterpretation based on roots and stems of Nyctaginaceae. Botanical Journal of the Linnean Society 146:129-143.
- Carlquist, S.** 2004. Wood and bark anatomy of Myricaceae: Relationships, generic definitions, and ecological interpretations. *Aliso* 21:7-29.
- Carlquist, S.** and **E. Schneider.** 2004. Vestigial pit membrane remnants in perforation plates and helical thickenings in vessels of Ericaceae. *Nordic Journal of Botany* 23:353-363
- Carlquist, S.** and **E. Schneider.** 2004. Pit membrane remnants and other vessel details of Clethraceae: primitive features in wood of Ericales. *International Journal of Plant Science.* 165:369-376.
- Carlquist, S.,** and **E.L. Schneider.** 2004. Pit membrane remnants in perforation plates of Hydrangeales with comments on pit membrane remnant occurrence, physiological significance, and phylogenetic significance in dicotyledons. Botanical Journal of the Linnean Society 146:41-51.
- Schneider, E.L.,** and **S. Carlquist.** 2004. Pit membrane remnants in perforation plates and other vessel details of Cornales. *Brittonia* 56:275-283.
- Schneider, E.L.,** & **S. Carlquist.** 2004. Perforation plate pit membrane remnants in vessels of Sarraceniaceae: possible indicators of relationship and ecology. *Journal of the Torrey Botanical Society* 13:1-7.
- Whittall, J.B., C.B. Hellquist, **E. Schneider,** S.A. Hodges. 2004. Cryptic species in an endangered pondweed community (*Potamogeton*: Potamogetonaceae) revealed by AFLP markers. *American Journal of Botany* 91:2022-2029.



## 2003:

### Books and Book Chapters:

- Carlquist, S.**, B.G. Baldwin, and G.D. Carr, eds. 2003. Tarweeds and silverswords. Evolution of the Madiinae. xiv + 294 p. Missouri Botanical Garden Press, St. Louis.
- Kadono, Y. and **E.L. Schneider**. 2003. The ecology of *Euryale ferox* Salib. in Japan. Pages 32-37 in V. Jha and Mishra (eds.): The biology and cultivation of makhana (*Euryale ferox* Salisbury). Directorate of Information and Publications of Agriculture. Indian Council of Agricultural Research. Krishi Anusandhan Bhavan, Pusa, New Delhi.
- Muller, R.N.** 2003. Nutrient relations of the herbaceous layer in deciduous forest ecosystems. Chapter 2. Pages 15-37. in F. S. Gilliam and M. R. Roberts, eds. Ecology of the herbaceous layer of forests of eastern North America. Oxford University Press.

### Journal Articles:

- Carlquist, S.** 2003. Wood anatomy and successive cambia in *Simmondsia* (Simmondsiaceae): evidence for inclusion in Caryophyllales (s. 1.) Madroño 49:158–164.
- Carlquist, S.** 2003. Wood anatomy of Aextoxicaceae and Berberidopsidaceae is compatible with their inclusion in Berberidopsidales. Systematic Botany 28:317-325.
- Carlquist, S.** 2003. Wood anatomy of Polygonaceae: Analysis of a family with exceptional wood diversity. Botanical Journal of the Linnean Society 141:25-51.
- Carlquist, S.** 2003. Wood and stem anatomy of woody Amaranthaceae (s.s.): Ecology, systematics, and the problems of defining rays in dicotyledons. Botanical Journal of the Linnean Society 143:1-19.
- Carlquist, S.**, and T.K. Lowrey. 2003. Wood anatomy of Hawaiian *Tetramolopium*. Pacific Science 57:171-179.
- Muller, R.N.** 2003. Landscape patterns of change in coarse woody debris accumulation in an old-growth deciduous forest on the Cumberland Plateau, southeastern Kentucky. Canadian Journal of Forest Research 33:763-769.
- Schneider, E.L.**, and **S. Carlquist**. 2003. Perforation plate diversity in *Illilium floridanum* (Illiciaceae) with respect to organs, provenance, and microtechnical methods. Sida 20:1047-1057.
- Schneider, E.** and **S. Carlquist**. 2003. Unusual pit membrane remnants in perforation plates of Cyrillaceae. Journal of the Torrey Botanical Society 130:225-230.
- Schneider, E.**, **S. Tucker**, and P. S. Williamson. 2003. Morphological studies of the Nymphaeaceae XXIV. Floral development in Nymphaeales. International Journal of Plant

Science 164: S279-S292.

**Tucker, S.C.** 2003. Floral development in legumes. *Plant Physiology* 131:1-17.

**Tucker, S.C.** 2003. Unidirectional initiation from the adaxial side of the flower in *Julbernardia* and *Sindora* (Leguminosae: Caesalpinioideae: Detarieae). *International Journal of Plant Sciences* 164:275-286.

**Tucker, S.C.** 2003. Floral ontogeny in *Swartzia* (Leguminosae: Papilionoideae: Swartzieae): Occurrence, variation and role of the ring meristem in development. *American Journal of Botany* 90:1271-1292.

#### Technical Report

**Junak, S.** 2003. Distribution of selected invasive plant species on San Clemente Island, California. Technical Report 6. Santa Barbara Botanic Garden, Santa Barbara, CA. 13 Pages

**Wilken, D.** 2003. Monitoring plan for purple amole (*Chlorogalum purpureum* var. *purpureum*) on Camp Roberts. Environmental Division, California National Guard, Camp Roberts. 14 pages.

#### 2002:

#### Books and Book Chapters:

**Wilken, D.** 2002. Taxonomic treatments in Baldwin et al. (eds.), *The Jepson Desert Manual*. University of California Press, Berkeley. 2002. as follows: *Selaginella*, Anacardiaceae, Asteraceae (*Hulsea*), Boraginaceae in part (6 genera with W. Kelley or R. Kelley), Caryophyllaceae (*Silene*), Chenopodiaceae in part (16 genera and *Atriplex* with D. Taylor), Hydrophyllaceae (*Phacelia* with R. Halse and R. Patterson), Lamiaceae in part (9 genera), Oleaceae, Polemoniaceae (3 genera and *Phlox* with R. Patterson), Portulacaceae (*Calyptridium* with W. Kelley), Ranunculaceae in part (6 genera), Rosaceae (2 genera), Tamaricaceae, Ulmaceae, Verbenaceae, Orchidaceae with W. Jennings, and Poaceae in part (16 genera, *Bromus* and *Deschampsia* with E. Painter).

#### Journal Articles:

**Carlquist, S.** 2002. Wood and bark anatomy of Salvadoraceae: Ecology, relationships, histology of interxylary phloem. *Journal of the Torrey Botanical Society* 129:10-20.

**Carlquist, S.** 2002. Wood and bark anatomy of Myricaceae: relationships, generic definitions, and ecological interpretations. *Aliso* 21:7-29.

**Carlquist, S.** 2002. Wood anatomy and successive cambia in *Simmondsia* (Simmondsiaceae):

evidence for inclusion in Caryophyllales (*s. l.*) Madroño 49:158-164.

**Carlquist, S., and E. Schneider.** 2002. The tracheid-vessel element transition in angiosperms involves multiple independent features: Cladistic consequences. *American Journal of Botany* 89:185-195.

**Carlquist, S. and E. Schneider.** 2002. Vessels of *Illicium* (Illiciaceae): Range of pit membrane remnant presence in perforations and other vessel details. *International Journal of Plant Sciences* 163:755-763.

#### Symposium Proceedings:

**Junak, S. and R. Philbrick.** 2002. Flowering plants of Natividad Island, Baja California, Mexico. Pages 224-234 *in* D. Browne, K. Mitchell, and H. Chaney, editors. *Proceedings of the Fifth California Islands Symposium*. U.S. Department of the Interior, Minerals Management Service.

**Junak, S. and R. Philbrick.** 2002. Flowering plants of the San Benito Islands, Baja California, Mexico. Pages 235-246 *in* D. Browne, K. Mitchell, and H. Chaney, editors. *Proceedings of the Fifth California Islands Symposium*. U.S. Department of the Interior, Minerals Management Service.

**Wilken, D. and E. Schneider.** 2002. Research in conservation biology at the Santa Barbara Botanic Garden: An integrated approach. *Proceedings of the 5th International Botanic Gardens Conservation Congress*. Cape Town, South Africa. 2002.

#### Technical Reports:

**Junak, S.** 2002. Exotic plant survey, Outlying Landing Field, San Nicolas Island, California. Technical Report 4. Santa Barbara Botanic Garden, Santa Barbara, CA. 145 pages.

**Junak, S.** 2002. Sensitive plant survey, Outlying Landing Field, San Nicolas Island, California. Technical Report 5. Santa Barbara Botanic Garden, Santa Barbara, CA. 97 pages.

Whittall, J. C., B. Hellquist, and **E. Schneider.** 2002. Monitoring the little Aguja pondweed (*Potamogeton clystocarpus*): Distribution, morphology and taxonomic status in a diverse pondweed community. Technical Report.

#### 2001:

#### Journal Articles:

**Carlquist, S.** 2001. Observations on the vegetative anatomy of *Austrobaileya*: Habital, organographic, and phylogenetic conclusions. *Botanical Journal Linnean Society* 135:1-11.

- Carlquist, S.** 2001. Wood anatomy of Fouquieriaceae in relation to habit, ecology, and systematics: Nature of meristems in wood and bark. *Aliso* 19:137-163.
- Carlquist, S.** 2001. Wood anatomy of the woody Asteraceae of St Helena I.: Evolutionary significance. *Botanical Journal Linnean Society* 137:197-210.
- Carlquist, S.** 2001. Wood and stem anatomy of Rhabdodendraceae is consistent with placement in Caryophyllales.1. *International Association of Wood Anatomists Journal* 22:171-181.
- Carlquist, S.,** and M. Olson. 2001. Wood anatomy of *Moringa* (Moringaceae) with relation to habit, ecology, and systematics. *Botanical Journal Linnean Society* 135:315-348.
- Carlquist, S.,** and R.B. Miller. 2001. Wood anatomy of Corynocarpaceae is consistent with placement in Cucurbitales. *Systematic Botany* 26:54-65.
- Carlquist, S.,** and **E. Schneider.** 2001. Vegetative anatomy of *Amborella*: New data, implications for relationships and for vessel origin and definition. *Pacific Science* 55:305-312.
- Carlquist, S.** and **E. Schneider.** 2001. Vegetative anatomy of the New Caledonian endemic *Amborella trichopoda*: Relationships with the Illiciales and implications for vessel origin. *Pacific Science* 55:305-312.
- Carlquist, S.** and **E. Schneider.** 2001. Vessels in ferns: Structural, ecological, and evolutionary significance. *American Journal of Botany (Special Invited Paper)* 88:1-13.
- Schneider, E.** and **S. Carlquist.** 2001. SEM studies of vessels in Saururaceae. *International Association of Wood Anatomists* 22:183-192.
- Wilken, D.** 2001. A new *Ipomopsis* (Polemoniaceae) from the southwest USA and adjacent Mexico. *Madrono* 48:116-122.

#### Technical Reports:

- Junak, S.** 2001. Distribution of native cacti (*Opuntia* spp.) and boxthorn (*Lycium californicum*) on San Nicolas Island, California. Technical Report 3. Santa Barbara Botanic Garden, Santa Barbara, CA. 52 Pages
- Wilken, D.,** and **T. Wardlaw.** 2001. Ecological and life history characteristics of Ventura marsh milkvetch (*Astragalus pycnostachyus* var. *lanosissimus*) and their implications for recovery. *Prepared for:* M. Meyer, Plant Ecologist, South Coast Region, Department of Fish and Game. Funded by USFWS, Section 6, Contract No. P995002.

#### 2000:

#### Journal Articles:

- Barrett, S., **D. Wilken,** and W. Cole. 2000. Heterostyly in the Lamiaceae: The case of *Salvia brandegeei*. *Plant Systematics and Evolution.* 223:211-219.

- Breuss, O. and **C. Bratt**. 2000. Catapyrenioid lichens in California. The Bulletin of the California Lichen Society 7:37-43.
- Carlquist, S.** 2000. Wood anatomy, stem anatomy, and cambial activity of *Barbeuia* (Caryophyllales). International Association of Wood Anatomists Journal 20:31-41.
- Carlquist, S.** 2000. Wood and bark anatomy of Achatocarpaceae. Sida 19:71-78.
- Carlquist, S.** 2000. Wood and bark anatomy of *Takhtajania* (Winteraceae): Phylogenetic and ecological implications. Annals of the Missouri Botanical Garden 87:317-322.
- Carlquist, S.** 2000. Wood and stem anatomy of phytolaccoid and rivinoid Phytolaccaceae (Caryophyllales): Ecology, systematics, nature of successive cambia. Aliso 19:13-29.
- Schneider, E.** and **S. Carlquist**. 2000. SEM Studies on vessels in ferns. 14. *Ceratopteris*. Aquatic Botany 66:1-8.
- Carlquist, S.** and **E. Schneider**. 2000. SEM Studies on vessels in ferns. 16. Pacific tree ferns (Blechnaceae, Cyatheaceae, Dicksoniaceae). Pacific Science 54:75-86.
- Carlquist, S.** and **E. Schneider**. 2000. SEM studies on vessels in ferns. 18. Montane cheilanthoid Ferns (Pteridaceae) of North America: Adaptations of fern xylem to xeric habitats. Aliso 19:31-39.
- Carlquist, S.** and **E. Schneider**. 2000. SEM studies on vessels in ferns. 19. Marsileaceae. American Fern Journal 90:42-41
- Carlquist, S.,** and **E. Schneider**. 2000. Wood and stem anatomy of *Sarcobatus* (Caryophyllales): Systematic and ecological implications. Taxon 49:27-34.
- Carlquist, S., E. Schneider,** and **C. Lamoureux**. 2000. SEM studies on vessels in ferns. 20. Hawaiian Hymenophyllaceae. Pacific Science 54:365-375.
- Hayes, V., **E. Schneider,** and **S. Carlquist**. 2000. Floral development of *Nelumbo nucifera* (Nelumbonaceae). International Journal of Plant Sciences 16:183-191.
- Schneider, E.** and **S. Carlquist**. 2000. SEM Studies on vessels in ferns. 17. Psilotaceae. American Journal of Botany 87:176-181.
- Schneider, E.** and **S. Carlquist**. 2000. SEM Studies on vessels of the heterophyllous species of *Selaginella*. Journal of the Torrey Botanical Society 127:263-270.
- Schneider, E.** and **S. Carlquist**. 2000. SEM Studies on vessels of the homophyllous species of *Selaginella*. International Journal of Plant Sciences 161:967-974.

Symposium Proceedings:

- Chess, K., K. McEachern, and **D. Wilken**. 2000. Island jepsonia (*Jepsonia malvifolia*) demography on Santa Rosa and Santa Cruz Islands, California. Pages 155-157 in D. Browne, K. Mitchell, and H. Chaney, editors. Proceedings of the Fifth California Islands Symposium. U.S. Department of the Interior, Minerals Management Service.
- Kaska, D., J. Bushakra, J. Levine, J. Cooper, S. Hodges, and **D. Wilken**. 2000. Reproduction in the

paleoendemic island ironwood, *Lyonothamnus floribundus*. Pages 733-734 in Proceedings, 5th California Channel Islands Symposium (D.Browne, K. Mitchell, and H. Chaney, eds.), US Dept. of Interior, 749 pages.

**Vivrette, N.** 2000. Coastal bluff vegetation change over 25 Years on Santa Cruz Island. Pages 141-142 in D. Browne, K. Mitchell, and H. Chaney, editors. Proceedings of the Fifth California Islands Symposium. U.S. Department of the Interior, Minerals Management Service.

#### Technical Reports:

**Wilken, D.** 2000. Rare plant survey at Fort Hunter Liggett: Purple amole (*Chlorogalum purpureum*), dwarf calycadenia (*Calycadenia villosa*), and Santa Lucia mint (*Pogogyne clareana*). Technical Report 2. Santa Barbara Botanic Garden, Santa Barbara, CA. 35 Pages + maps. Appendices.

#### 1999:

#### Journal Articles:

**Bratt, C.** 1999. Additions to the lichen flora of San Clemente Island, California. Bulletin of the California Lichen Society 6:19-21.

**Carlquist, S.** 1999. Wood and bark anatomy of Schisandraceae: Implications for phylogeny, habit, and vessel evolution. Aliso 19:45-55.

**Carlquist, S.** 1999. Wood and stem anatomy of *Stegnosperma* (Caryophyllales): Phylogenetic relationships; nature of lateral meristems and successive cambial activity. International Association of Wood Anatomists Journal 20:149-163.

**Carlquist, S.** 1999. Wood anatomy of *Agdestis* (Caryophyllales): Systematic position and nature of the successive cambia. Aliso 18:35-43.

**Carlquist, S.** 1999. Wood, stem, and root anatomy of Basellaceae with relation to systematics and cambial variants. Flora 194:1-12.

**Carlquist, S.** and **E. Schneider.** 1999. SEM Studies on vessels in ferns. 8. *Platyzoma*. Australian Journal of Botany 47:277-282.

**Carlquist, S.** and **E. Schneider.** 1999. SEM studies on vessels in ferns. 11. *Ophioglossum*. Botanical Journal of the Linnean Society 129:105-114.

**Carlquist, S.** and **E. Schneider.** 1999. SEM studies on vessels in ferns. 12. Marattiaceae, with comments on vessel patterns in eusporangiate ferns. American Journal of Botany 86:457-464.

**Carlquist, S.** and R. B. Miller. 1999. Vegetative anatomy and relationships of *Setchellanthus*

*caeruleus* (Setchellanthaceae). Taxon 48:289-302.

**Carlquist, S.,** H. Tobe, and H. Iltis. 1999. Reproductive anatomy and relationships of *Setchellanthus*. Taxon 48:277-283.

Les, D.H., **E.L. Schneider,** D.J. Padgett, P.S. Solis, D.E. Soltis, and M. Zanis. 1999. Phylogeny, classification, and floral evolution of water lilies (Nymphaeaceae; Nymphaeales): A synthesis of non-molecular, *rbc L*, *mat K*, and 18S rDNA data. Systematic Botany 24:28-46.

**Schneider, E.** and **S. Carlquist.** 1999. SEM Studies on vessels in ferns. 11. Ophioglossaceae. Botanical Journal Linnean Society 129:105-114.

**Schneider, E.** and **S. Carlquist.** 1999. SEM studies on vessels in ferns.12. Marattiaceae, with comments on vessel patterns in eusporangiate ferns. American Journal of Botany 86:457-464.

**Schneider, E.** and **S. Carlquist.** 1999. SEM Studies on vessels in ferns. 13. Nephrolepis. American Fern Journal 89:171-177.

**Schneider, E.** and **S. Carlquist.** 1999. SEM Studies on vessels in ferns. 14. Ceratopteris. Aquatic Botany 66:1-8.

**Schneider, E.** and **S. Carlquist.** 1999. SEM Studies on vessels in ferns. 15. Selected rosette epiphytes (Aspleniaceae, Elaphoglossaceae, Vittariaceae). International Journal of Plant Sciences 160:1013-1020.

#### Symposium Proceedings:

**Wilken, D.** and **E. Schneider.** 1999. Research in conservation biology at the Santa Barbara Botanic Garden: An integrated approach. *in* Proceedings of the 5th International Botanic Gardens Conservation Congress. Cape Town, South Africa.

#### **1998:**

#### Books and Book Chapters:

**Smith, C.** 1998. A Flora of the Santa Barbara Region, California, 2<sup>nd</sup> edition. Santa Barbara Botanic Garden, Santa Barbara, CA.

**Bratt, C.** and T. L. Esslinger. 1998. The *Heterodermia erinacea* group in North America, and a remarkable new disjunct distribution. Pages 25-36 *in* M. G. Glenn, R. C. Harris, R. Dirig, and M. S. Cole, editors. Lichenographia Thomasiana: North American Lichenology in Honor of John W. Thomson. Mycotaxon, Ltd.

#### Journal Articles:

- Carlquist, S.** 1998. Wood anatomy of Caricaceae, with reference to systematics and habit. International Association of Wood Anatomists Journal 19:191-206.
- Carlquist, S.** 1998. Wood anatomy of *Wilkesia* (Asteraceae) with relation to systematics, organography, and habit. Journal of the Torrey Botanical Society 125:261-267.
- Carlquist, S.** 1998. Wood anatomy of *Dubautia* (Asteraceae: Madiinae) in relation to adaptive radiation. Pacific Scientist 52:356-368.
- Carlquist, S.** 1998. Wood and stem anatomy of *Petiveria* and *Ravina* (Caryophyllales). International Association of Wood Anatomists Journal 19:383-391.
- Carlquist, S.** and **E. Schneider.** 1998. Origins and nature of vessels in monocotyledons. 3. Lowiaceae, with comments on rhizome anatomy. Blumea 43:219-224.
- Carlquist, S.** and **E. Schneider.** 1998. Origins and nature of vessels in monocotyledons. 4. Araceae subfamily Philodendroideae. Journal of the Torrey Botanical Society 125:253-260.
- Carlquist, S.** and **E. Schneider.** 1998. Origins and nature of vessels in monocotyledons. 5. Araceae. Subfamily Colocasioideae. Botanical Journal of the Linnean Society 128:71-86.
- Carlquist, S.** and **E. Schneider.** 1998. SEM Studies on vessels in ferns. 5. *Woodsia scopulina*. American Fern Journal 88:17-23.
- Carlquist, S.** and **E. Schneider.** 1998. SEM Studies on vessels in ferns. 6. *Woodsia ilvensis* with comments on vessel origin in ferns. Flora 193:179-185.
- Carlquist, S.** and **E. Schneider.** 1998. SEM Studies on Vessels in Ferns. 7. Microgramma. Anales Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Ser. Bot. 69:1-7.
- Carlquist, S.** and **E. Schneider.** 1998. SEM studies on vessels of ferns. 9. Dicranopteris (Gleicheniaceae) and vessel patterns in leptosporangiate ferns. American Journal of Botany 85:1028-1932.
- Carlquist, S.** and **E. Schneider.** 1998. SEM studies on vessels in ferns. 10. Osmundaceae and Schizaeaceae. International Journal of Plant Sciences 159:788-797.
- Carlquist, S.,** and M. L. DeVore. 1998. Wood anatomy of *Calyceraceae*, with reference to ecology, habitat, and systematic relationships. Aliso 17:63-76.
- Junak, S.** 1998. California's Channel Islands. Manzanita 2:6-7.
- Schneider, E.** and **S. Carlquist.** 1998. Origins and nature of vessels in Monocotyledons. 4. Araceae. Subfamily Philodendroideae. Journal of the Torrey Botanical Society 12:253-260.
- Schneider, E.** and **S. Carlquist.** 1998. SEM studies on vessels in ferns. 9. *Dicranopteris* (Gleicheniaceae) and vessel patterns in leptosporangiate ferns. American Journal of Botany 85:1028-1032.
- Wilken, D.** 1998. Daniel J. Crawford - Recipient of the Asa Gray Award. Systematic Botany 23:1-3.
- Xu, X., **E. Schneider,** C. Zaremba, G. D. Stucky, and F. Wudl. 1998. Modification of the Semitransparent *Prunus serrula* Bark Film: Making rubber out of bark. Chemistry of Materials 10:3523-3527.



### Symposium Proceedings:

**Haller, J., S. Junak, and E. Schneider.** 1998. The California Channel Islands: A continental archipelago with a remarkable flora. Pages 18-22 in D. H. Touchel and K. W. Dixon, editors. Proceedings of the Fourth International Botanic Gardens Conservation Congress: Extended Abstracts of Posters. Kings Park and Botanic Garden.

### Technical Reports:

**Junak, S. and D. Wilken.** 1998. Sensitive plant status survey, NALF San Clemente Island, California. Santa Barbara Botanic Garden Technical Report No. 1. Report to Natural Resources Division, US Navy, NALF San Clemente Island.

### 1997:

#### Journal Articles:

**Carlquist, S.** 1997. *Pentaphragma*: A unique wood and its significance. International Association of Wood Anatomists Journal 18:3-12.

**Carlquist, S.** 1997. Peter H. Raven--recipient of the 1996 Asa Gray Award. Systematic Botany 22:1-3.

**Carlquist, S.** 1997. Shifting paradigms in island biology. Aliso 16:85-88.

**Carlquist, S.** 1997. Wood anatomy of *Argyroxiphium* (Asteraceae): Adaptive radiation and ecological correlations. Journal of the Torrey Botanical Society 124:1-10.

**Carlquist, S.** 1997. Wood anatomy of Buddlejaceae. Aliso 15:41-56.

**Carlquist, S.** 1997. Wood anatomy of Resedaceae. Aliso 16:127-135.

**Carlquist, S.** 1997. Wood anatomy of Portulacaceae and Hectorellaceae: Ecological, habitat, and systematic implications. Aliso 16:127-153.

**Carlquist, S. and E. Schneider.** 1997. Origins and nature of vessels in Monocotyledons. 1. *Acorus*. International Journal of Plant Science 158:51-56.

**Carlquist, S. and E. Schneider.** 1997. Origins and nature of vessels in Monocotyledons. 2. Juncaginaceae and Scheuchzeriaceae. Nordic Journal of Botany 17:397-401.

**Carlquist, S. and E. Schneider.** 1997. SEM studies on vessels in ferns. 2. *Pteridium*. American Journal of Botany 84:581-587.

**Carlquist, S. and E. Schneider.** 1997. SEM studies on vessels in ferns. 3. *Phlebodium* and *Polystichum*. International Journal of Plant Science 158:343-349.

**Carlquist, S. and E. Schneider.** 1997. SEM studies on vessels in ferns. 4. *Astrolepis*. American

Fern Journal 87:43-50.

**Carlquist, S., E. Schneider,** and G. Yatskievych. 1997. SEM studies on vessels in ferns. 1. *Woodsia obtusa* (Sprengel) Torrey (Dryopteridaceae). American Fern Journal 87:1-8.

**Junak, S.** 1997. Alien plants on the Channel Islands. *Alolkoy* 10:3.

Les, D.H., **E.L. Schneider,** and D.J. Padget. 1997. Water lily relationships revisited: Lessons learned from anatomy and molecules. *The Water Garden Journal* 13:21-28.

Ross, T., S. Boyd, and **S. Junak.** 1997. Additions to the vascular flora of San Clemente Island, Los Angeles County, California, with notes on clarifications and deletions. *Aliso* 15:27-40.

**Schneider, E.** and R. Taylor. 1997. Plant evolution and conservation on islands: A global perspective. Introduction. *Aliso* 16:83-84.

Xu, X., **E. Schneider,** A.T. Chien, and F. Wudl. 1997. Nature's high-strength semitransparent film: the remarkable mechanical properties of *Prunus serrula* bark. *Chemistry of Materials* 9:1906-1908.

#### Symposium Proceedings:

**Haller, J.R.** 1997. Transverse Ranges. Pages 158-159 (plus photos) *in* P. M. Faber, editor. California's wild gardens: A living legacy.

**Junak, S.** 1997. Northern Channel Islands. *in* P. M. Faber, editor. California's wild gardens: A living legacy.

**Junak, S.** and **C. Bornstein.** 1997. Plants from California's northern Channel Islands with horticultural potential. Pages 62-75 *in* B. O'Brien, L. Fuentes, and L. Newcombe, editors. Out of the wild and into the garden I: A symposium of California's horticulturally significant plants. Occasional Publication 1. Rancho Santa Ana Botanic Garden.

Oberbauer, T. and **S. Junak.** 1997. Channel Islands. *in* California's Wild Gardens.

#### Technical Reports:

**Junak, S.,** S. Chaney, **R. Philbrick,** and R. Clark. 1997. A checklist of vascular plants of Channel Islands National Park (Second Edition). Southwest Parks and Monument Association.

McEachern, K., **D. Wilken,** and K. Chess. 1997. Inventory and monitoring of California island candidate plant taxa. Report to Species at Risk program, USGS-Biological Research Division. Open File Report 2000-73, Ventura, California. 46 Pages

#### 1996:

#### Books and Book Chapters:

- Northington, D., **E.L. Schneider**, and D.C. Scheirer. 1996. *The Botanical World*, 2nd ed. edition. Wm. C. Brown Publishers.
- Carlquist, S.** 1996. Materials for anatomical and ultrastructural studies: Pollen, wood, and pickled materials. Pages 143-156 *in* T. F. Stuessy and S. H. Sohmer, editors. *Sampling the green world*. Columbia University Press.
- Carlquist, S.** 1996. Plant dispersal and the origin of Pacific island floras. Pages 153-164 *in* A. Keast and S. Miller, editors. *The origin and evolution of Pacific island biotas; New Guinea to eastern Polynesia: Patterns and processes*. SBP Academic Publishing.
- Carlquist, S.** 1996. Wood anatomy of primitive angiosperms: New perspectives and synthesis. Pages 68-90 *in* D. W. Taylor and L. J. Hickey, editors. *Flowering plant origin, evolution, and phylogeny*. Chapman & Hall.
- Junak, S.** 1996. A history of botanical exploration and discovery on Santa Rosa Island. Pages 168-191 *in* K. Blankenship Allen (Editor). *Island of the Cowboys, Santa Rosa Island*. Occasional Paper 7. Santa Cruz Island Foundation, Santa Barbara, CA.

Journal Articles:

- Carlquist, S.** 1996. Wood anatomy of Akaniaceae and Bretschneideraceae: A case of near-identity and its systematic implications. *Systematic Botany* 21:607-616.
- Carlquist, S.** 1996. Wood and bark anatomy of lianoid Indomalaysian and Asiatic species of *Gnetum*. *Botanical Journal of the Linnean Society* 121:1-24.
- Carlquist, S.** 1996. Wood and stem anatomy of Menispermaceae. *Aliso* 14:155-170.
- Carlquist, S.** 1996. Wood, bark and stem anatomy of Gnetales: A summary. *International Journal of Plant Science* 157(supplementary issue): S57-S76.
- Carlquist, S.** 1996. Wood, bark and stem anatomy of New World species of *Gnetum*. *Botanical Journal of the Linnean Society* 120:1-19.
- Carlquist, S.**, and C.J. Boggs. 1996. Wood anatomy of Plumbaginaceae. *Bulletin of the Torrey Botanical Club* 123:135-147.
- Carlquist, S.** and C.J. Donald. 1996. Wood anatomy of Limnanthaceae and Tropaeolaceae in relation to habit and phylogeny. *Sida* 17:333-342.
- Schneider, E.** and **S. Carlquist.** 1996. Conductive tissue of *Ceratophyllum demersum* (Ceratophyllaceae). *Sida* 178:437-443.
- Schneider, E.** and **S. Carlquist.** 1996. Vessel origin in *Cabomba*. *Nordic Journal of Botany* 16:637-642.
- Schneider, E.** and **S. Carlquist.** 1996. Vessels in *Brasenia* (Cabombaceae): New perspectives on vessel origin in primary xylem of angiosperms. *American Journal of Botany* 83:1236-1240.
- Schneider, E.** and **S. Carlquist.** 1996. Vessels in *Nelumbo* (Nelumbonaceae). *American Journal of*

Botany 83:1101-1106.

**Schneider, E.** and P.S. Williamson. 1996. *Barclaya rotundifolia* M. Hotta (Nymphaeaceae). Aqua Planta.

#### Symposium Proceedings

**Wilken, D.** 1996. Demography of *Ipomopsis aggregata* ssp. *weberi*, a rare plant of northern Colorado. Pages 13-18 in J. Maschinski et al. (eds.) Proceedings, Second Southwestern Rare and Endangered Plants Conference. USDA, Forest Service, Flagstaff, AZ.

#### Technical Reports:

Halvorson, W., **S. Junak**, C. Schwemm, and T. Keeney. 1996. Plant communities of San Nicolas Island, California. Technical Report 55. National Biological Service; Cooperative Park Studies Unit; University of Arizona.

**Junak, S.**, W. Halvorson, C. Schwemm, and T. Keeney. 1996. Sensitive plants of San Nicolas Island, California (Phase 2). Technical Report 57. U.S. Geological Survey; Cooperative Park Studies Unit; University of Arizona.

**Wilken, D.** 1996. Reproductive strategies of four plants restricted to the northern Channel Islands.

#### 1995:

#### Books and Book Chapters:

**Junak, S.**, T. Ayers, R. Scott, **D. Wilken**, and D. Young. 1995. A flora of Santa Cruz Island. Santa Barbara Botanic Garden and California Native Plant Society. 397 Pages

**Carlquist, S.** 1995. Introduction. Pages 1-13 in W. L. Wagner and V. A. Funk, editors. Hawaiian biogeography: Evolution on a hot-spot archipelago. Smithsonian Press.

Les, D. H. and **E.L. Schneider**. 1995. The Nymphaeales, Alismatidae, the theory of aquatic monocotyledon origin. Pages 23-42 in P. J. Rudall, P. J. Cribb, D. F. Cutler, and C. J. Humphries, editors. Monocotyledons: systematics and evolution. Royal Botanic Gardens, Kew.

#### Journal Articles:

**Carlquist, S.** 1995. Comparative wood anatomy: New directions and opportunities. in M. Iqbal, editor. The cambium and its products. Handbuch der Pflanzenanatomie Spezieller 9:173-

185.

- Carlquist, S.** 1995. Wood anatomy of Berberidaceae: Ecological and phylogenetic considerations. *Aliso* 14:85-103.
- Carlquist, S.** 1995. Wood anatomy of Caryophyllaceae: Ecological, habitat, systematic, and phylogenetic implications. *Aliso* 14:1-17.
- Carlquist, S.** 1995. Wood anatomy of Ranunculiflorae: A summary. *Plant Systematics and Evolution* suppl. 9:11-24.
- Carlquist, S.** 1995. Wood and bark anatomy of Ranunculaceae (including Hydrastis) and Glaucidaceae. *Aliso* 14:65-84.
- Carlquist, S., K. Dauer, and S. Nishimura.** 1995. Wood and stem anatomy of Saururaceae with reference to ecology, phylogeny, and origin of the monocotyledons. *International Association of Wood Anatomists Journal* 16:133-150.
- Carlquist, S.** and D. Gowans. 1995. Secondary growth and wood histology of *Welwitschia*. *Botanical Journal of the Linnean Society* 118:107-121.
- Carlquist, S.** and A. Robinson. 1995. Wood and bark anatomy of the African species of *Gnetum*. *Botanical Journal of the Linnean Society* 118:123-137.
- Carlquist, S.** and E. Wilson. 1995. Wood anatomy of *Drosophyllum* (Droseraceae), ecological and phylogenetic considerations. *Bulletin of the Torrey Botanical Club* 122:185-189.
- Junak, S.** and **D. Wilken.** 1995. Flora of Santa Cruz Island: Historic condition and recent changes. *Fremontia* 23:12-16.
- Rhui-cheng, F. and **D. Wilken.** Polemoniaceae. 1995. In Wu Zheng-yi and P. Raven (eds.). *Flora of China* 16 (Pages 326-327), Science Press (Beijing) and Missouri Botanical Garden.
- Schneider, E.** and **S. Carlquist.** 1995. Vessel origins in Nymphaeaceae: *Euryale* and *Victoria*. *Botanical Journal of the Linnean Society* 119:185-193.
- Schneider, E.** and **S. Carlquist.** 1995. Vessels in the root of *Barclaya rotundifolia* (Nymphaeaceae). *American Journal of Botany* 82:1343-1349.
- Schneider, E., S. Carlquist, K. Beamer, and A. Kohn.** 1995. Vessels in Nymphaeaceae: *Nuphar*, *Nymphaea*, and *Ondinea*. *International Journal of Plant Science* 156:857-862.
- Wilken, D.** 1995. Flowers in the garden: What next for California floristics? *Madroño* 42:142-153.

#### Technical Reports:

- Junak, S., W. Halvorson, C. Schwemm, and T. Keeney.** 1995. Sensitive plants of San Nicolas Island, California (Phase 1). Technical Report 51. National Biological Service, Cooperative Park Studies Unit; University of Arizona.

#### 1994:

#### Books and Book Chapters:

**Carlquist, S.** 1994. Anatomy of tropical alpine plants. Pages 111-128 *in* P. W. Rundel, A. P. Smith, and F. C. Meinzer, editors. Tropical alpine environments. Cambridge University Press.

#### Journal Articles:

**Carlquist, S.** 1994. Wood and bark anatomy of *Gnetum gnemon*. Botanical Journal of the Linnean Society 116:203-221.

**Carlquist, S., E. Schneider,** and R. Miller. 1994. Wood and bark anatomy of *Argemone* (Papaveraceae). International Association of Wood Anatomists Journal 15:247-255.

**Schneider, E.** and P. Williamson. 1994. Morphological studies of the Nymphaeaceae. Floral Aspects of *Barclaya* (Nymphaeaceae): Pollination; ontogeny and structure. Plant Systematics and Evolution [Suppl] 8:159-173.

**Wilken, D.** 1994. Review of Weber, W. and R. Wittmann. Catalog of the Colorado flora: A biodiversity baseline. Great Plains Quarterly 14:152-153.

#### Symposium Proceedings:

**Junak, S.** and **R. Philbrick.** 1994. The flowering plants of San Martin Island, Baja California, Mexico. Pages 429-4478 *in* W. Halvorson and G. Maender, editors. The Fourth California Islands Symposium: Update on the Status of Resources. Santa Barbara Museum of Natural History.

**Junak, S.** and **R. Philbrick.** 1994. The vascular plants of Todos Santos Island, Baja California, Mexico. Pages 407-428 *in* W. Halvorson and G. Maender, editors. The Fourth California Islands Symposium: Update on the Status of Resources. Santa Barbara Museum of Natural History.

Laughrin, L., **M. Carroll,** A. Bromfield, and J. Carroll. 1994. Trends in vegetation changes with removal of feral animal grazing pressures on Santa Catalina Island. Pages 523-530 *in* W. Halvorson and G. Maender, editors. The Fourth California Islands Symposium: Update on the Status of Resources. Santa Barbara Museum of Natural History.

#### 1990-1993:

#### Books and Book Chapters:

**Junak, S., R. Philbrick,** and C. Drost. 1993. A revised flora of Santa Barbara Island: An annotated catalog of the ferns and flowering plants and a brief history of botanical exploration. Pages 54-112 *in* Daily, M. (ed), Santa Barbara Island. Occasional Paper 6. Santa Cruz Island Foundation, Santa Barbara, CA.

**Wilken, D.** 1993. Taxonomic treatments in Hickman, J. (ed.), *The Jepson Manual: Higher Plants of California*. University of California Press, Berkeley. 1993. as follows: Selaginellaceae, Anacardiaceae, Asteraceae (Hulsea), Balsaminaceae, Boraginaceae in part (6 genera with W. Kelley or R. Kelley), Caryophyllaceae (Silene), Chenopodiaceae in part (16 genera and Atriplex with D. Taylor), Hydrophyllaceae (Phacelia with R. Halse and R. Patterson), Juglandaceae, Lamiaceae in part (17 genera), Oleaceae, Polemoniaceae (3 genera and Phlox with R. Patterson), Portulacaceae (Calyptridium with W. Kelley), Ranunculaceae in part (14 genera), Rosaceae (4 genera), Tamaricaceae, Ulmaceae, Verbenaceae, Orchidaceae with W. Jennings, and Poaceae in part (25 genera and Bromus with E. Painter).

#### Journal Articles:

**Carlquist, S.** 1993. Wood and bark anatomy of Aristolochiaceae: Systematic and habitat correlations. *International Association of Wood Anatomists Journal* 14:341-357.

**Carlquist, S.,** P. Morrell, and S. Manchester. 1993. Wood anatomy of Sabiaceae (s. 1.): ecological and systematic implications. *Aliso* 13:521-549.

**Junak, S.** 1991. *The Herbarium: A Botanical Encyclopedia*. *Public Garden* 6:17-19, 38.

**Wilken, D.** 1993. Continuing traditions: A new Jepson Manual and a plaza at Sonoma. *Fremontia* 21: 3-6.

#### Symposium Proceedings:

**Carroll, M.,** L. Laughrin, and A. Bromfield. 1993. Fire on the California Islands: Does it Play a Role in Chaparral and Closed Cone Pine Forest Habitats? Pages 73-88 *in* F. Hochberg, editor. *Third California Islands Symposium: Recent Advances in Research on the California Islands*. Santa Barbara Museum of Natural History.

Davis, W. and **S. Junak.** 1993. Hybridization between *Malacothrix polycephala* and *M. incana* (Asteraceae) on San Nicolas Island; California. Pages 89-95 *in* F. Hochberg, editor. *Third California Islands Symposium: Recent Advances in Research on the California Islands*. Santa Barbara Museum of Natural History.

Jones, J., **S. Junak,** and R. Paul. 1993. Progress in mapping vegetation on Santa Cruz Island and a preliminary analysis of relationships with environmental factors. Pages 97-104 *in* F. Hochberg, editor. *Third California Islands Symposium: Recent Advances in Research on the California Islands*. Santa Barbara Museum of Natural History.

**Junak, S.** and J. Vanderwier. 1990. An annotated checklist of the vascular plants of San Nicolas Island, California. Pages 121-145 *in* Proceedings of the Fifth Biennial Mugu Lagoon / San Nicolas Island Ecological Research Symposium. Naval Air Station.

**1981-1989:**

Books and Book Chapters:

**Emery, D.** 1988. Seed propagation of native California plants. Santa Barbara Botanic Garden.

Journal Articles:

Moran, R. and **M. Benedict.** 1981. *Dudleya pachyphytum* of Isla Cedros, Mexico. Cactus and Succulent Journal 53:132-136.

Tanowitz, B., **S. Junak,** and D. Smith. 1984. Terpenoids of *Hyptis emoryi*. Journal of Natural Products 47:739–740.

Tanowitz, B., D. Smith, and **S. Junak.** 1984. Terpenoids of *Monardella hypoleuca*. Journal of Natural Products 47:738–739.

**Odion, D.** 1985. Noteworthy collection of *Dicentra pauciflora*. Madroño 32:57.

**Timbrook, S.** 1985. Problems of lectotypification in *Langloisia* (Polemoniaceae). Taxon 34:522-524.

**Walters, M.** 1985. Meiosis readiness in *Lilium*. Canadian Journal of Genetics and Cytology 27:33-38.

Davis, W. and **R. Philbrick.** 1986. Natural hybridization between *Malacothrix incana* and *M. saxatilis* var. *implicata* (Asteraceae: Lactuceae) on San Miguel Island, California. Madroño 33:253-263.

Ferren, W., **S. Junak,** and M. Barkworth. 1986. Noteworthy Collections:California. *Stipa diegoensis* Swallen (Poaceae). Madroño 33:309-310.

Timbrook, S. 1986. Segregation of *Loeseliastrum* from *Langloisia* (Polemoniaceae). Madroño 33:157-174.

Michaelsen, J., L. Haston, and F.W. Davis. 1987. 400 Years of Central California precipitation variability reconstructed from tree-rings. Journal of the American Water Resources Association 23:809–818.

Thorne, R. and **S. Junak.** 1988. Vascular plants of Las Isla de Todos Santos, Northwestern Baja California, Mexico. Crossosoma 14:4-7.

Thorne, R. and **S. Junak.** 1989. The vascular plants of Isla San Martin, Baja California, Mexico. Crossosoma 15:5-7.



### Symposium Proceedings:

- Odion, D.C.** and N.M. Nadkarni. 1985. The effects of seeding an exotic grass (*Lolium multiflorum*) on native seedling regeneration following fire in a chaparral community. Pages 115-121 in J. J. DeVries (ed), Proceedings of the Symposium on Chaparral Ecosystems. University of California, Davis, Water Resources Center, Report 62.
- Bornstein, C., M. Carroll, and D. Odion.** 1987. Revegetation in Santa Barbara County: Enduring dilemmas and potential solutions. Pages 76-91 in Proceedings of the Native Plant Revegetation Symposium. California Native Plant Society.
- Odion, D.,** T. Dudley, and C. D'Antonio. 1987. Cattle grazing in southeastern Sierran meadows: Ecosystem change and prospects for recovery. Pages 277-292 in C. A. Hall and V. Doyle-Jones (eds.), Plant Biology of Eastern California Natural History of the White-Inyo Range Symposium. White Mountain Research Station, Symposium Volume 2.

### Technical Reports:

- Junak, M., S. Junak, and R. Philbrick.** 1983. A Comparison of vegetation transect measurements made on Santa Barbara Island in 1978, 1979, 1982. Santa Barbara Botanic Garden.
- Philbrick, R., **S. Junak,** and **M. Carroll.** 1987. Checklist of vascular plants of Channel Islands National Park. Southwest Parks and Monuments Association.

### 1980:

#### Journal Articles:

- Moran, R. and **M. Benedict.** 1980. *Dudleya pachyphytum* (Crassulaceae), a New Species from Isla Cedros, Mexico. Phytologia 47:85-87.
- Walters, M.** 1980. Premeiosis and meiosis in *Lilium* "Enchantment". Chromosoma 80:119-146.

### Symposium Proceedings:

- Hochberg, M.** 1980. Factors affecting leaf Size of chaparral shrubs on the California Islands. Pages 189-206 in D. Power, editor. The California Islands: Proceedings of a Multidisciplinary Symposium. Santa Barbara Museum of Natural History.
- Hochberg, M., Junak, R. Philbrick, and S. Timbrook.** 1980. Historical changes in the vegetation of Anacapa Island. Pages 431-446 in Proceedings of the Second Conference on Scientific Research in the National Parks. National Park Service.
- Junak, S., M. Hochberg, R. Philbrick, and S. Timbrook.** 1980. Plant communities of Anacapa Island, California. Pages 221-231 in Proceedings of the Second Conference on Scientific

Research in the National Parks. National Park Service.

**Philbrick, R.** 1980. Distribution and evolution of endemic plants of the Channel Islands. Pages 173-187 in D. Power, editor. The California Islands: Proceedings of a Multidisciplinary Symposium. Santa Barbara Museum of Natural History.

**Vivrette, N.** 1980. Zonation of coastal plant species and their correlation with salt levels in the soil. Pages 207-213 in D. Power, editor. The California Islands: Proceedings of a Multidisciplinary Symposium. Santa Barbara Museum of Natural History.

#### Technical Reports:

**Hochberg, M., S. Junak, and R. Philbrick.** 1980. Botanical Study of Santa Cruz Island for the Nature Conservancy. Santa Barbara Botanic Garden.

#### 1970-1979:

#### Books and Book Chapters:

**Philbrick, R. and J. Haller.** 1977. The Southern California Islands. Pages 893-906 in M. Barbour and J. Major, editors. Terrestrial Vegetation of California. John Wiley and Sons.

#### Journal Articles:

**Walters, M.** 1970. Evidence on the time of chromosome pairing from the preleptotene spiral stage in *Lilium longiflorum* "Croft". Chromosoma 29:375-418.

**Philbrick, R.** 1972. The plants of Santa Barbara Island, California. Madroño 21:329-393.

**Walters, M.** 1972. Preleptotene chromosome contraction in *Lilium longiflorum* "Croft". Chromosoma 39:311-332.

**Walters, M.** 1976. Variation in preleptotene chromosome contraction among three cultivars of *Lilium longiflorum*. Chromosoma 57:51-80.

**Vivrette, N.J.** and C.H. Muller. 1977. Mechanism of invasion and dominance of coastal grassland by *Mesembryanthemum crystallinum*. Ecological Monographs 77:301-318.

**Walters, M.** 1977. The relation of temperature to preleptotene chromosome contraction in *Lilium*. Chromosoma 61:23-39.

**Philbrick, R.** 1978. A botanist's view of Santa Cruz Island. Fremontia 6:6-10.

**Walters, M.** 1978. Meiosis readiness in *Lilium longiflorum* "Croft". Chromosoma 67:365-391.

#### Technical Reports:

**Hochberg, M., S. Junak, R. Philbrick, and S. Timbrook.** 1979. Botany. Pages 5.1-5.85 in D. Power, editor. Natural Resources Study of Channel Islands National Monument, California. Santa Barbara Museum of Natural History.

**1960-1969:**

Journal Articles:

**Walters, M.** 1960. Rates of meiosis, spindle irregularities and microsporocyte division in *Bromus trinii* x *B. carinatus*. *Chromosoma* 11:167-204.

**Moseley, M. F.** 1961. Morphological studies of the Nymphaeaceae. II. The flower of *Nymphaea*. *Botanical Gazette* 122:233-259.

**Wenner, A.** 1962. Communication with queen honey bees by substrate sound. *Science* 138:446-448.

**Piehl, M.** 1963. Mode of attachment, haustorium structure, and hosts of *Pedicularis canadensis*. *American Journal of Botany* 50:978-985.

**Walters, M.** 1963. A nuclear body in meiosis of *Bromus*. *Chromosoma* 14:423-450.

**Philbrick, R.** 1964. *Opuntia oricola*, a new Pacific Coast Species. *The Cactus and Succulent Journal* 36:163-165.

**Wenner, A.** 1964. Sound communication in honeybees. *Scientific American* 210:116-124.

**Moseley, M.F.** 1965. Morphological studies of the Nymphaeaceae. III. The floral anatomy of *Nuphar*. *Phytomorphology* 15:54-84.

**Walters, M.** 1965. A nuclear body in microsporocytes of *Zea Mays*. *Chromosoma* 17:78-84.

**Walters, M.** 1966. Development and chemical constitution of a nuclear body in microsporocytes of *Bromus*. *Heredity* 21:173-181.

**Walters, M.** 1966. Non-chromosomal entities in mitosis and meiosis of *Bromus arizonicus*. *Heredity* 21:537-545.

**Walters, M.** 1968. Ribonucleoprotein structures in meiotic prophase of *Zea Mays*. *Heredity* 23:39-47.

Symposium Proceedings:

**Philbrick, R., ed.** 1967. Proceedings of the Symposium on the Biology of the California Islands, Santa Barbara Botanic Garden.

**Walters, M.** 1968. Evidence on chromosome pairing from the pre-leptotene spiral stage in *Lilium longiflorum*. In National Meetings of the Genetics Society of America.

**1940-1959:**

Books and Book Chapters:

**Smith, C.** 1952. A Flora of Santa Barbara. Santa Barbara Botanic Garden.

Journal Articles:

**Muller, C.H.** 1952. Ecological Control of Hybridization in *Quercus*: a factor in the mechanism of evolution. *Evolution* 6:147-161.

**Muller, C.H.** 1952. Los camotes del pochote (*Ceiba parvifolia*) de Puebla. *Sociedad Botanica de Mexico Boletin.* 14:18-20.

**Muller, C.H.** 1952. Plant succession in arctic heath and tundra in northern Scandinavia. *Bulletin of the Torrey Botanical Club* 79:296-309.

**Walters, M.** 1952. Atypical chromosome movement in meiotic anaphase of *Bromus pitensis* x *B. marginatus*. *American Journal of Botany* 39:619-625.

**Walters, M.** 1952. Spontaneous chromosome breakage and atypical chromosome movement in meiosis of the hybrid *Bromus marginatus* x *B. pseudolaevipes*. *Genetics* 37:8-25.

Stebbins, G.L., J. Jenkins, and **M. Walters.** 1953. Chromosomes and phylogeny in the Compositae, Tribe Cichorieae. *University of California Publications in Botany* 26:401-430.

**Muller, C.H.** 1954. A new species of *Quercus* in Arizona. *Madroño* 12:140-145.

**Muller, C.H.** 1954. Una nueva especie de *Quercus* de la Sierra Madre Occidental de Mexico. *Anales del Instituto de Biología de la Universidad Nacional Autónoma de Mexico. Serie Botánica.* 24:269-273.

**Walters, M.** 1954. A study of pseudobivalents in meiosis of two interspecific hybrids of *Bromus*. *American Journal of Botany* 41:160-171.

**Walters, M.** 1955. A study of half-chromatid fragments in meiosis of the hybrid *Bromus trinii* x *B. maritimus*. *University of California Publications in Botany* 28:1-18.

**Moseley, M.F.** 1955. Studies of the Garryaceae - I. The comparative morphology and phylogeny. *Phytomorphology* 5:314-346.

**Moseley, M.F.** 1956. The anatomy of the water storage organ of *Ceiba parvifolia*. *Tropical Woods* 104:61-79.

**Moseley, M.F.** 1958. Morphological studies of the Nymphaeaceae. I. The nature of the stamens. *Phytomorphology* 8:1-29.

**Walters, M.** 1958. Aberrant chromosome movement and spindle formation in meiosis of *Bromus* hybrids: An interpretation of spindle organization. *American Journal of Botany* 45:271-289.