

July 2007

DONALD R. STRONG

Department of Evolution and Ecology, University of California, Davis, CA 95616

**a. Professional Preparation**

B.S. University of California, Santa Barbara, 1966, BS Zoology, with Honors

M.S. Biology, University of California, Irvine, Biology, 1968.

Ph.D. Biology, University of Oregon, Ecology and Limnology, 1972.

Ford Foundation Postdoctoral Fellow, University of Chicago, 1972-1973.

**b. Appointments**

Assistant Professor (1973), Associate (1977), then Professor (1983-1991)

Florida State University, Tallahassee, Florida, Department of Biological Science.

Visiting Professor. Swedish University of Agriculture, Uppsala, 1989 & 1990.

Professor, Section of Evolution and Ecology & Bodega Marine Laboratory,

University of California, Davis, 1991-present.

**c. Academic & Professional Awards and Honors**

1990. Al Boyce Award in Entomological Research, UC Riverside.

2000. Ichnotaxon Designee: *Cephaloleia strongi*, featured on cover of *Science* 289:291-294.

2001 Distinguished Scientific Visitor, Centre for Population Biology, Silwood Park, Imperial College, UK.

**d. Synergistic Activities (selected)**

1986-1990 Co-Founder with Lee Miller, and First Editor: "Special Features," *Ecology*.

1988. Distinguished Research Fellow, Bodega Marine Laboratory.

1993 -1994 National Research Council, EMAP Review Committee, Member.

1996 - 1999 Member of Initial Scientific Advisory Board,

National Center for Ecological Analysis and Synthesis.

1997 - 2000 Editor-In-Chief (1 of 4), *Oecologia*.

1998 - 2000 Director, Center for Population Biology UC Davis

1999 – present Editor in Chief, *Ecology and Ecological Monographs*.

2002. Member of committee to review biological science, Brown University.

2002. Member, Review Panel of Division of Entomology, CSIRO, Canberra, Australia.

**e. Professional Societies**

Ecological Society of America

American Society of Naturalists

Royal Entomological Society

AAAS

**f. Classes Taught (since 2000)**

Introductory Ecology, for undergrad biology majors (EVE101), 120-160 students.

Community Ecology, for grad students (PB200b), 4-8 students.

Community Ecology, for grad students (EGG 200b), 40 students.

Biological Invasions, for grad students (PPG250A), 8 students.



**g. Support of Research (selected, since 2000)**

US Fish and Wildlife Service. \$16,704. 2005-2007

“Genetic Structure of Three Listed Plants of the Santa Rosa Plain.”

Genetic Structure of Three Listed Plants of the Santa Rosa Plain.

California Dept of Fish and Game. \$55,984. 2006-2007.

Monitoring for Invasive *Spartina* Control in the San Francisco Estuary

California Coastal Conservancy. \$247,869. 2006-2008.

The Role of *Porcellio Scaber* in a Litter Processing Chain. Dissertation Research with Justin Bastow, graduate student.

National Science Foundation. \$9,857. 2005-2007.

Theory & Experimentation with a Powerful Trophic Cascade:

Nematodes, Rootfeeders & Bush Lupine. Co-PI A. M. Hastings & Brian Dennis.

National Science Foundation. \$500,000. 2003-2008.

Dynamics and Ecosystem threats of Bidirectional Cordgrass Hybridization in San Francisco Bay

California Sea Grant. \$ 309,203. 2000 – 2003.

Identifying Key Processes and Control Points in Rhizosphere Ecosystems: From Molecules to Ecosystems. Co-Pi D. Phillips

NSF, Conference Grant. \$20,000 2000-2001

Dynamics of an Invasive Non-Native Species and its Biological, Physical, and Human Impacts: *Spartina Alterniflora* on the Pacific Coast

National Science Foundation, Biocomplexity. \$3,799,621.00. 2000-2005

PI: A. H. Hastings Co-PIs, T. D. Grosholz, S. Ustin, D. R. Strong.

Moisture-mediated Predation in an Underground Trophic Cascade. Dissertation Research with Evan Preisser, graduate student.

National Science Foundation. \$ 9,981. 2002 -2004.

## Publication List

### In Press

Blum, M. J., Bando, K. J., Katz, M., and Strong, D. R. Geographic structure, genetic diversity and source tracking of *Spartina alterniflora*. *Journal of Biogeography*.

Nguyen, V., Bastow, J, Jaffee, B., and Strong, D. R. Response of nematode-trapping fungi to organic substrates in a coastal grassland soil. *Mycological Research*.

Bastow, J., Preisser, E. L. and Strong, D. R. *Holcus lanatus* invasion slows decomposition through its interaction with a macroinvertebrate detritivore, *Porcellio scaber*. *Biological Invasions*.

Strong, D. R. and D. A. Ayres. *Spartina* Introductions and Consequences in Salt Marshes: Arrive, Survive, Thrive, and sometimes Hybridize. 50 ms pp. in Silliman, B. R. and Grosholz, T., Eds. *Anthropogenic Modification of North American Salt Marshes*. University of California Press.

Jaffee, B. A., Bastow, J. L. & Strong, D. R.. Suppression of nematodes in a coastal grassland soil. *Biology and Fertility of Soils*. (published online Feb. 2007).

### In Print:

DeBruyn, A. M. H. ,McCann, K. S., Moore, J. C., and Strong, D. R. 2007. An Energetic Framework for Trophic Control. Pp. 65-86 in *From Energetics to Ecosystems: The Dynamics and Structure of Ecological Systems*. Eds, Rooney, N. McCann, K. S. & D. L. G. Noakes. Springer, NY.

Gruner, D. S, Ram, K, & Strong, D. R. 2007. Soil mediates the interaction of coexisting entomopathogenic nematodes with an insect host. *Journal of Invertebrate Pathology* 94 12–19.

Strong, D. R., and M. Sanderson. 2006. Cenozoic insect-plant diversification in the tropics. *Proceedings of the National Academy of Sciences of the United States of America* 103:10827-10828.

Farrell, F. C., B. A. Jaffee, and D. R. Strong. 2006. The nematode-trapping fungus *Arthrobotrys oligospora* in soil of the Bodega marine reserve: distribution and dependence on nematode-parasitized moth larvae. *Soil Biology & Biochemistry* 38:1422-1429.

Preisser, E. L., C. J. Dugaw, B. Dennis, and D. R. Strong. 2006. Plant facilitation of a belowground predator. *Ecology* 87:1116-1123.

Civille, J. C., K. Sayce, Smith, S. D., Strong, D. R. 2005. "Reconstructing a century of *Spartina alterniflora* invasion with historical records and contemporary remote sensing." *Ecoscience* 12(3): 330-338.

- Sloop, C. M., H. G. McGray, M. J. Blum, and D. R. Strong. 2005. Characterization of 24 additional microsatellite loci in *Spartina* species (Poaceae). *Conservation Genetics* 6:1049-1052.
- Preisser, E. L., Dugaw, C. J., Dennis, B. , and Strong, D. R. 2005. Long-term survival of the entomopathogenic nematode *Heterorhabditis marelatus*. *Environmental Entomology* 34(6):1501-1506.
- Dugaw, C. J., Preisser, E. L. Hastings, A. Strong, D. R. 2005. Widening the window of persistence in seasonal pathogen--host systems. *Theoretical Population Biology*. 68:267–276.
- Harrison, S., A. Hastings and D. R. Strong. 2005. Spatial and temporal dynamics of insect outbreaks in a complex multitrophic system: tussock moths, ghost moths, and their natural enemies on bush lupines. *Annales Zoologici Fennici* 42: 409-419.
- Eng, M. S., Preisser, E. L., and Strong, D. R. 2005. Dispersal of the entomopathogenic nematode *Heterorhabditis marelatus* by a non-host organism, the isopod *Porcellio scaber*. *Journal of Invertebrate Pathology*. *Journal of Invertebrate Pathology* 88: 173–176.
- Jaffee B. A. and Strong, D. R. 2005. Strong bottom-up and weak top-down effects in soil: nematode-parasitized insects and nematode-trapping fungi. *Soil Biology & Biochemistry* 37 1011–1021.
- Davis, H.G, Taylor, C. M, Lambrinos, J. G. and Strong, D. R. 2004. Pollen Limitation Causes an Allee effect in a Wind-pollinated Invasive Grass (*Spartina alterniflora*). *PNAS* 2004 101: 13804-13807.
- Ayres D.R., Zaremba K, and DR Strong. 2004. Extinction of a Common Native Species by Hybridization with an Invasive Congener. *Weed Technology* 18:288-1291. (Proceedings Volume: Invasive Plants in Natural and Managed Systems: Linking Science and Management and 7th International Conference on the Ecology and Management of Alien Plant Invasions. Ft. Lauderdale, FL, 2003.
- Preisser, E. L. and Donald R. Strong. 2004. Climate Affects Predator Control of an Herbivore Outbreak. *The American Naturalist* 163: 754-762.
- Strong, D. R. Evolving Weeds and Biological Control. 2004. Keynote Paper in: Proceedings of the XI International Symposium on Biological Control of Weeds (eds Cullen, J.M., Briese, D.T., Kriticos, D.J., Lonsdale, W.M., Morin, L. and Scott, J.K.) pp. 27. CSIRO Entomology, Canberra, Australia.
- Davis, H.G, Taylor, C. M, Civile, J. C. and Strong, D. R. 2004. An Allee Effect at the Front of a Plant Invasion: *Spartina* in a Pacific Estuary. *Journal of Ecology* 92:321-327.

Dugaw, C. J., Hastings, A., Preisser, E. L. , and Strong, D. R. 2004. Seasonally limited host supply generates microparasite population cycles. *Bulletin of Mathematical Biology* 66: 583-594.

Blum, M.J., Sloop, C. M., Ayres, D. R. and Strong, D. R. 2004. Characterization of microsatellite loci in *Spartina* species (Poaceae). *Primer Note, Molecular Ecology Notes* 4:39-42.

Ayres, D. A. Smith, D. L., Zaremba, K, Klohr, S. and D. R. Strong. 2004. Spread of exotic cordgrasses and hybrids (*Spartina* sp.) in the tidal marshes of San Francisco Bay, California, USA. *Biological Invasions* 6: 221–231.

Ayres, D. R., P. Baye, and D. R. Strong. 2003. *Spartina foliosa* – a common species on the road to rarity? *MadroZo* 50: 209-213.

Phillips, D. A., Ferris, H. Cook, D. R. & Strong, 2003 D. R. Rhizosphere Control Points: Molecules to Food Webs. *Ecology*. 84:816-826.

Garcia Rossi, D., N. Rank, Strong, D. R. 2003. Can Biological Control Be Self-Defeating? Variation In Herbivore Vulnerability Among Invasive *Spartina* Clones. *Ecological Applications* 13: 1640-1649.

Grevstad, F. Strong, D. R., Garcia-Rossi, D, Switzer, R. and Wecker, M. 2003. Biological Control of *Spartina alterniflora* in Willapa Bay Washington: Agent specificity, introduction, and early results. *Biological Control* 27:32-42.

Ayres DR, Strong DR. 2002. The *Spartina* invasion of San Francisco Bay. *Aquatic Nuisance Species Digest* 4 (4): 37-38.

Davis, H. G., Garcia-Rossi, D., Daoust, M. and Strong, D. R. 2002. The Use of Molecular Assays to Identify Plant Pathogenic Organisms Vectored by Biological Control Agents. *BioControl* 47 (5).

Strong, D. R . 2002. Populations of Entomopathogenic Nematodes in Food webs. Chap. 11, pp 225-240 in *Entomopathogenic Nematology*, Ed. Randy Gaugler, CABI Publishing, NY.

Strong, D. R and Phillips, D. R. 2001. Notes from the Underground. *Communication and Control in the Rhizosphere. Meeting Report. Plant Physiology*, November, Vol. 127, pp. 727–730.

Rossi, A. M. and Strong, D. R. 2001. Seasonal distribution of the leafhopper *Carneiocephala floridana* (Homoptera: cicadellidae) in north Florida saltmarshes. *Ann. Entomol. Soc. Am* 94: 871-876.

- Naylor, R. L., S. L. Williams, and D. R. Strong. 2001. Aquaculture: A gateway for exotic species. *Science* (Washington D C) 294:1655-1656.
- Ayres, D. R., and D. R. Strong. 2001. Origin and genetic diversity of *Spartina anglica* (Poaceae) using nuclear DNA markers. *American Journal of Botany* 88:1863-1867.
- Strong, D. R. and Pemberton, R. W. 2001. Foodwebs, Risks of Alien Enemies and Reform of Biological Control. Pp. 57-80. *In* Evaluating Indirect Ecological Effects of Biological Control. Eds Wajnberg, E. Scott, J. K. and Quimby, P. C. CABI Publishing, NY. 261 pp.
- Pemberton, R. W. and D. R. Strong. 2000. Safety data crucial for biological control of insect agents. *Science* 290: 1896-1897.
- Simberloff, D. S. and D. R. Strong. 2000 Exotic Species Seriously Threaten Our Environment. Counterpoint in *The Chronicle of Higher Education*. Sept. 8.
- Polis, G. A., Sears, A. L. W., Huxel, G. R., Strong, D. R., and Maron, J. 2000. When is a trophic cascade a trophic cascade? *Trends in Ecology and Evolution* 15:473-475.
- Strong, D. R. and Pemberton, R. W. 2000. Biological Control of Invading Species: Risk and Reform. *Science* 288:1969-1970.
- Anttila, C. K., King, R. A., Ferris, C., Ayres, D. R. and Strong, D. R. 2000. Reciprocal hybrid formation of *Spartina* in San Francisco Bay. *Molecular Ecology* 9:765-771.
- Wu, M. Y., Hacker, S., Ayres, D. Strong, D. R. 1999. Potential of *Prokelisia* spp. as Biological Control Agents of English Cordgrass, *Spartina anglica*. *Biological Control* 16: 267-273.
- Cronin, J. T. and D. R. Strong. 1999. Dispersal and Aggregation of Parasitism. *The American Naturalist*. 154:23-36
- Ayres, D. A., Garcia-Rossi, D., Davis, H. G. & Strong, D. R. 1999. Extent and degree of hybridization between exotic (*Spartina alterniflora*) and native (*S. foliosa*) cordgrass (Poaceae) in California, USA determined by Random Amplified Polymorphic DNA (RAPDs). *Molecular Ecology* 8:1179-1187.
- Strong, D. R., Whipple, A. V, Child, A. L., and Dennis, B. 1999. Model selection for a subterranean trophic cascade: root-feeding caterpillars and entomopathogenic nematodes. *Ecology* 80(8): 2750-2761
- Daehler, C. C., Anttila, C. K, Ayres, D. A. Strong, D. R. and Bailey, J. 1999. Evolution of a new ecotype of *Spartina alterniflora* in San Francisco Bay, California, USA. *American Journal of Botany* 86: 543-546.

- Strong, D. R. 1999. Predator control in terrestrial ecosystems: the underground food chain of bush lupine. Pp. 577-602. In *Herbivores, between Plants and Predators.* Eds. Olf, H., Brown, V. K. and Drent, R. H., Blackwell Science, Oxford.
- Anttila, C. K., C. C. Daehler, N. E. Rank, and D. R. Strong. 1998. Greater male fitness of a rare invader (*Spartina alterniflora*, Poaceae) threatens a common native (*Spartina foliosa*) with hybridization. *American Journal of Botany* 85:1597-1601.
- Baur, M. E., H. K. Kaya, and D. R. Strong. 1998. Foraging ants as scavengers on entomopathogenic nematode-killed hosts. *Biological Control* 12:231-236.
- McCann, K. S., A. Hastings, and D. R. Strong. 1998. Trophic cascades and trophic trickles in pelagic food webs. *Proceedings of the Royal Society of London Series B-Biological Sciences*. 265:205-209.
- Strong, D. R. 1997. Fear no weevil? *Science* 277:1058-1059.
- Strong, D. R. 1997. Quick indirect interactions in intertidal food webs. *Trends in Ecology and Evolution* 12:173-174.
- Daehler, C. C. and D. R. Strong. 1997. Reduced herbivore resistance in introduced smooth cordgrass (*Spartina alterniflora*) after a century of herbivore-free growth. *Oecologia* 110: 99-108.
- Daehler, C. C. and D. R. Strong. 1997. Hybridization between introduced smooth cordgrass (*Spartina alterniflora*; Poaceae) and native California cordgrass (*S. foliosa*) in San Francisco Bay, California, USA. *American Journal of Botany* 84:607-611.
- Koppenhofer, A.M. B.A. Jaffee, A. E. Muldoon, and D. R. Strong. 1997. Suppression of an entomopathogenic nematode by the nematode-trapping fungi *Geniculifera paucispora* and *Monacrosporium eudermatum* as affected by the fungus *Arthrobotrys oligospora*. *Mycologia* 89:220-227.
- Stock, P., D. R. Strong, and S.L. Gardner. 1996. Identification of *Heterorhabditis* (Nemata: Heterorhabditidae) from California with a new species isolated from the larvae of the ghost moth *Hepialus californicus* (Lepidoptera: Hepialidae) from the Bodega Marine Reserve. *Fundamental Applied Nematology* 19:585-592.
- Chitamber, J., D. R. Strong, and E. Duarte. 1996. Natural occurrence of the stem and bulb nematode and the *Chrysanthemum foliar* nematode in Bodega Bay, Sonoma County. *California Plant Pest and Plant Disease Reporter* (June-Sept.) 15: 84-86.
- Koppenhofer, A.M. B.A. Jaffee, A. E. Muldoon, D. R. Strong, and H. K. Kaya. 1996. Effect of nematode-trapping fungi on an entomopathogenic nematode originating from the same field site in California. *Journal of Invertebrate Pathology* 68:246-252.

- Hajek, A. E., S. R. A. Walsh, D. R. Strong, and J. C. Silver. 1996. A disjunct strain of Entomophaga aulicae infecting Orgia vetusta. *Journal of Invertebrate Pathology* 68:260-268.
- Daehler, C. C. and D. R. Strong. 1996. Status, prediction and prevention of introduced cordgrass *Spartina* spp. invasions in Pacific estuaries, USA. *Biological Conservation* 78:51-58.
- Jaffee, B. A., D. R. Strong, and A. E. Muldoon. 1996. Nematode-trapping fungi of a natural shrubland: Tests for food chain involvement. *Mycologia* 88:554-564.
- Strong, D. R., A. V. Whipple, A. L. Child, S. Kraig, M. Bondonno, K. Dyer, J. L. Maron and H. K. Kaya 1996. Entomopathogenic nematodes: Natural enemies of root-feeding caterpillars on bush lupine. *Oecologia (Berlin)* 108:167-173.
- Whipple, A. V. and D. R. Strong. 1996. Phytochemical protection and natural enemies: what regulates a root and stem boring swift moth? pp. 127-131 *in* Dynamics of Forest Herbivory: Quest for Pattern and Principle. USDA Forest Service. North Central Forest Experiment Station. General Technical Report NC-183. Eds. W. J. Mattson, P. Niemela, and M. Rousi.
- Strong, D. R. 1996. Book Review of Pattern and Process in Host:Parasitoid Interactions, by B. Hawkins (1994 Cambridge Univ. Press). *The Quarterly Review of Biology* 71:130.
- Polis, G. and D. R. Strong. 1996. Food web complexity and community dynamics. *The Amer. Naturalist*. 147: 813-846
- Cronin, J. T. and D. R. Strong 1996. Genetics of oviposition success of a thelytokus fairyfly parasitoid. *Heredity* 76. 43:54.
- Rossi, A. M., B. V. Brodbeck, and D. R. Strong. 1996 Response of a xylem-feeding leafhopper to host plant species and plant quality. *Journal of Chemical Ecology* 22:653-671.
- Trjapitzin, S. V. and D. R. Strong. 1995. A new Anagrus (Hymenoptera: Mymaridae), egg parasitoid of Prokelisia spp.(Homoptera: Delphacidae). *Pan Pacific Entomologist* 71:199-203.
- Strong, D. R., J. L. Maron, and P. G. Connors. 1996. Top down from underground? The underappreciated influence of subterranean food webs on aboveground ecology. pp. 170-175 *in* Food Webs. eds. G. Polis and K. Weinmiller. Chapman & Hall.
- Strong, D. R., J. L. Maron, S. Harrison, P. G. Connors, and R. L. Jefferies. 1995. High mortality, fluctuation in numbers, and heavy subterranean herbivory in bush lupine, *Lupinus arboreus*. *Oecologia* 104: 85-92.
- Daehler, C.C. and D.R. Strong. 1995. Impact of high herbivore densities on introduced smooth cordgrass, *Spartina alterniflora*, invading San Francisco Bay, California. *Estuaries* 18:409-417.

- Daehler, C. C. and D. R. Strong. 1995. Book Review, of Ecology and Management of Invasive Riverside Plants. by L.C. de Waal, L. E. Child, P. M. Wade, and J. H. Brock, eds. 1994. Wiley, NY. Plant Science Bull. 41:19.
- Strong, D. R. 1995. Top-down and Bottom-up Forces in Ecological Food Webs. McGraw-Hill Yearbook of Science and Technology, 1995 ed. Subject Area of Ecology and Conservation, Population and Community Ecology.
- Daehler, C. C. and D. R. Strong. 1994. Native plant biodiversity vs. the introduced invaders: Status of the conflict and future management options. pp. 92-113 in *Biological Diversity: Problems and Challenges*. eds. S. K. Majumdar, F. J. Benner, J. E. Lovitch, J. F. Schalles, and E. W. Miller. Pennsylvania Academy of Science.
- Strong, D. R. and S. Larsson. 1994. Is the evolution of herbivore resistance influenced by parasitoids? pp. 261-278 in *Parasitoid Community Ecology*. eds B. A. Hawkins and W. Sheehan. Oxford Univ. Press. 516 pp.
- Daehler, C. C. and D. R. Strong. 1994. Variable reproductive output among clones of *Spartina alterniflora* (Poaceae) invading San Francisco Bay, California: the influence of inflorescence herbivory, pollination, and establishment site. *Am. J. Botany* 81:307-313.
- Reeve, J. D., J. T. Cronin and D. R. Strong. 1994. Parasitism and generation cycles in a salt-marsh planthopper. *Journal of Animal Ecology* 63: 912-920.
- Reeve, J. D., J. T. Cronin and D. R. Strong. 1994. Parasitoid aggregation and the stabilization of a salt marsh host-parasitoid system. *Ecology* 75:288-295.
- Cronin, J. T., and D. R. Strong. 1994. Auchenorrhyncha: parasitoid interactions and their contribution to the stabilization of populations. pp. 400-428, Chapter 13, in *Planthoppers: Their Ecology, Genetics, and Management*. Eds. R. F. Denno and T. J. Perfect. Chapman and Hall, New York .
- Gagne, R. J. and D. R. Strong. 1993. A new species of *Dasineura* (Diptera, Cecidomyiidae) galling the leaves of *Lupinus* spp (Fabaceae) in California. *Proc. Entomol. Soc. Wash.*95(4):541-546.
- Cronin, J. T. and D. R. Strong. 1993. Direct interference and indiscriminant host acceptance by a fairyfly egg parasitoid. *Ecological Entomology* 18:293-302.
- Cronin, J. T., and D. R. Strong. 1993. Substantially submaximal oviposition rates by a mymarid egg parasitoid, experimental confirmation in the laboratory and field. *Ecology* 74:1813-1826 .
- Strong, D. R., S. Larsson, and U. Gullberg. 1993. Heritability of Host Plant Resistance to Herbivory Changes with Gallmidge Density During an Outbreak on Willow. *Evolution* 47:291-300.

Daehler, C. C. and D. R. Strong. 1993. Prediction and Biological Invasions. *Trends in Ecology and Evolution* 8:380-381.

Daehler, C. C. and D. R. Strong. 1992 . book review of *Biogeography of Mediterranean Invasions*. by R. H. Groves and F. di Castri, eds. 1991. Cambridge U. Press. *Plant Science Bulletin* 38:27-28.

Strong, D. R and S. Larsson. 1992. The importance of herbivore population density in multi-trophic interactions in natural and agricultural ecosystems. pp.5-13 in *Proc. 8<sup>th</sup> Int. Symp. on Insect-Plant Interactions*. Wageningen NL.

Larsson, S., and D. R. Strong. 1992. Oviposition Choice and larval survival of *Dasyneura marginemtorquens* (Diptera: Cecidomyiidae) on resistant and susceptible *Salix viminalis*. *Ecological Entomology* 17:227-232.

Strong, D. R. 1992. Nonequilibrium themes for ecological theory: implications for fungal communities. pp. 1-15 In *The Fungal Community: Its Organization and Role in the Ecosystem*. Eds. G. C. Carroll and D. T. Wicklow. Marcel Decker, New York and Basel. 976 pp.

Strong, D. R. 1992. Are trophic cascades all wet? Differentiation and donor-control in speciose ecosystems. *Ecology* 73:747-754.

Rossi, A. M., P. D. Stiling, D. R. Strong, and D. M. Johnson. 1992. Does gall diameter affect the parasitism rate of *Asphondylia borrichiae* (Diptera: Cecidomyiidae). *Ecological Entomology* 17:149-154..

Stiling, P. D., A. M. Rossi, D. R. Strong, and D. M. Johnson. 1992. Life history and parasites of *Asphondylia borrichiae* (Cecidomyiidae: Diptera) on *Borrichia frutescens*. *The Florida Entomologist* 75:130-137.

Strong, D. R. 1991. Perspectives on Biological Control. *Issues in Science and Technology* VII:28.

Stiling, P. D., B. V. Brodbeck, and D. R Strong. 1991. Population increases of planthoppers on fertilized salt-marsh cord grass may be prevented by grasshopper feeding. *The Florida Entomologist* 74:88-97.

Silvanima, J. V. C., and D. R. Strong. 1991. Is host plant quality responsible for the population pulses of salt-marsh planthoppers (Homoptera: Delphacidae). *Ecological Entomology* 16: 221-232.

Stiling, P. D., A. Throckmorton, J. Silvanima, and D. R. Strong. 1991. Does spatial scale affect the incidence of density dependence? A field test with insect parasitoids. *Ecology* 72:2143-2154.

Stiling, P., A. Throckmorton, J. Silvanima, and D. R. Strong. 1991. Biology of and rates of parasitism by nymphal and adult parasites of the salt-marsh-inhabiting planthoppers Prokelisia marginata and P. dolus. *Florida Entomologist* 74:81-87.

Rossi, A. M., and D. R. Strong. 1991. The effects of host-plant nitrogen on the preference and performance of laboratory populations of Carneocephala floridana (Homoptera: Cicadellidae). *Environmental Entomology* 20:1349-1355.

Strong, D. R. 1990. Interface of the Natural Enemy and the Environment. In *New Directions in Biological Control*. U.C.L.A. Series on Molecular and Cellular Biology, New Series. Vol. 112. P.p. 57-64.

Cronin, J. T., and D. R. Strong. 1990. Density independent parasitism among host patches by Anagrus delicatus (Hymenoptera: Mymaridae): experimental manipulation of hosts. *Journal of Animal Ecology* 59:1019-1026.

Rossi, A. M., and D. R. Strong. 1990. A new species of Asphondylia on Borrichia frutescens (Asteraceae) from Florida. *Proc. Washington Entomological Society* 94(4):732-735.

Rossi, A. M., and D. R. Strong. 1990. The natural history of the leafhopper Carneocephala floridana (Homoptera: Cicadellidae) in a north Florida salt marsh. *The Florida Entomologist* 73(1):147-153.

Cronin, J. T., and D. R. Strong. 1990. Biology of Anagrus delicatus (Hymenoptera: Mymaridae), an egg parasitoid of Prokelisia marginata and P. dolus. *Annals of the Entomological Society of America* 83:840-854.

Strong, D. R., M. A. Antolin, and S. Rathbun. 1990. Variance and patchiness in rates of population change: a planthopper's case history. Pp. 75-89 in Living in a Patchy Environment. Eds. B. Shorrocks and I. Swingland. Cambridge Univ. Press.

Strong, D. R. 1989. Book review of The Organization of Communities Past and Present, J. H. R. Tee and P. S. Giller (eds.). *American Scientist* 77:392.

Strong, D. R. 1989. Reply to Hassall and May. *Trends in Ecology and Evolution* 4:21-22.

Strong, D. R. 1989. Density independence in space and inconsistent temporal relationships for host mortality caused by a fairyfly parasitoid. *Journal of Animal Ecology* 58:1065-1076.

Strong, D. R. 1988. A mite, Ogmotarsonemus erepsis (Tarsonemidae), in oviposition incisions of the planthopper Prokelisia marginata (Homoptera, Delphacidae) on the saltmarsh cordgrass, Spartina alterniflora. *The Florida Entomologist* 7:387-389.

Strong, D. R. 1988. Parasitoid Theory: From Aggregation to Dispersal. *Trends in Ecology and Evolution* 3:277-280.

Antolin, M. A., and D. R. Strong. 1987. Long-distance dispersal by a parasitoid (Anagrus delicatus, Mymaridae) and its host. *Oecologia* 73:288-292.

Brodbeck, B., and D. R. Strong. 1987. Amino acid nutrition of herbivorous insects and stress to host plants. Pp. 347-364 in Insect Outbreaks. Eds., P. Barbosa, J. Schultz. Academic Press.

Strong, D. R. 1987. Book review. Impact of alien species on native biota. Review of Ecology of Biological Invasions of North America and Hawaii. *Conservation Biology* 1(3):266-267.

Strong, D. R. 1986. Population Theory and Understanding Pest Outbreaks. Pp. 37-58 in Ecological Theory and Integrated Pest Management Practice, M. Kogan (ed.). Wiley, New York.

Strong, D. R. 1986. Density-vague population change. *Trends in Ecology and Evolution* 1:39-42.

Strong, D. R. 1985. Density vagueness: abiding the variance in the demography of real populations. Ch. 15, pp. 257-268, Community Ecology, eds. J. Diamond, T. Case. 664 pp. Harper & Row Publishers.

Stiling, P. D., B. V. Brodbeck, and D. R. Strong. 1984. Intraspecific competition in Hydrellia valida (Diptera: Ephidridae) a leaf miner of Spartina alterniflora. *Ecology* 65(2):660-662.

Strong, D. R. 1984. Bananas' best friend. *Natural History Magazine*. December, pp. 50-58.

Strong, D. R., J. A. Lawton, and T. R. E. Southwood. 1984. Insects on Plants. Blackwell (Europe), Harvard Univ. Press (North America). 313 pp.

Stiling, P. D., and D. R. Strong. 1984. Experimental density manipulation of stem-boring insects: some evidence for competition. *Ecology* 65(5):1683-1685.

Rey, J. R., and D. R. Strong. 1984. Immigration and extinction of salt marsh arthropods on islands: an experimental study. *Oikos* 41:396-401.

Stiling, P. D., and D. R. Strong. 1984. Weak competition among Spartina stem borers by means of murder. *Ecology* 64:770-778.

Strong, D. R. 1984. Chelobasis bicolor (Abej#n de Platanillo, Rolled-leaf Hispine). In Natural History of Costa Rica. Ed., D. H. Janzen. University of Chicago Press. pp. 708-711.

Strong, D. R. 1984. Exorcising insect communities of the ghost of competition past. Pages 28-41 in Ecological Communities: Conceptual Issues and the Evidence. Eds., Strong, D. R., D. S. Simberloff, L. G. Abele, and A. B. Thistle. Princeton University Press.

Strong, D. R., D. S. Simberloff, L. G. Abele, and A. B. Thistle, eds. 1984. Ecological Communities: Conceptual Issues and the Evidence. Papers of a conference sponsored by Florida State University, March 1981. Princeton University Press. 500 pp.

Strong, D. R. 1984. Density-vague ecology and liberal population regulation in insects. In A New Ecology: Novel Approaches to Interactive Systems. Eds., P. W. Price, C. N. Slobodchikoff, and W. S. Gaud. Chapter 11:313-327. Wiley Publishers.

Strong, D. R. 1983. Population Biology of Tropical Insects. Book review of book by same name (Author Allen M. Young). The Quarterly Review of Biology 58:266.

Strong, D. R. 1983. Biogeographical Theory. Book review of Aereography (Author E. H. Rapoport). Evolution 37:867.

Strong, D. R. 1983. Natural variability and the manifold mechanisms of ecological communities. The American Naturalist 122:636-660.

Rey, J. R. and D. R. Strong. 1983. Immigration and extinction of salt marsh arthropods on Islands: an experimental study. Oikos 41:396-401.

Strong, D. R., and P. Stiling. 1983. Wing dimorphism changed by experimental density manipulation in a planthopper, Prokelesia marginata (Homoptera, Delphacidae). Ecology 64:206-209.

Stiling, P. D., and D. R. Strong. 1982. Egg parasitism in Tettigoniidae). The Florida Entomologist 65:285-286.

Stiling, P. D., and D. R. Strong. 1982. Egg density and the intensity of parasitism in Prokelisia marginata (Homoptera, Delphacidae). Ecology 63:1630-1636.

Stiling, P. D., B. Brodbeck, and D. R. Strong. 1982. Foliar nitrogen and larval parasitism as determinants of leafminer abundance on Spartina alterniflora. Ecological Entomology 7:447-452.

Stiling, P. D., and D. R. Strong. 1982. The parasitoids of the planthopper Prokelesia marginata (Homoptera: Delphacidae). The Florida Entomologist 65:191-192.

Strong, D. R. 1982. Harmonious coexistence of hispine beetles on Heliconia in experimental and natural communities. Ecology 63:1039-1049.

- Rey, J. R., D. R. Strong, and E. D. McCoy. 1982. On overinterpretation of the species-area relationship. *The American Naturalist* 119:741-743.
- Strong, D. R. 1982. Critical thought on Island Biogeography. Book review of "Island Populations" by Mark Williamson. *Ecology* 63:590.
- Strong, D. R., and J. R. Rey. 1982. Testing for MacArthur-Wilson equilibrium with the arthropods of the miniature Spartina archipelago at Oyster Bay, Florida. *The American Zoologist* 22:355-360.
- Strong, D. R. 1982. Potential interspecific competition and host specificity: hispine beetles on Heliconia. *Ecological Entomology* 7:217-220.
- Stiling, P. D., and D. R. Strong. 1981. A leaf miner (Diptera: Ephidridae) and its parasitoids on Spartina alterniflora in northwest Florida. *The Florida Entomologist* 64:468-471.
- Strong, D. R. 1981. Hutchinsonian ratios in warfare: a geopolitical analysis. *Eidema* 1 #2:79-83.
- Stiling, P. D., and D. R. Strong. 1981. An ephydrid leaf miner and its parasitoids on Spartina alterniflora in northwest Florida. *The Florida Entomologist* 64:469-471.
- Gage, D. and D. R. Strong. 1981. The phytochemistry of Heliconia. *Biochemical Systematics & Ecology* 9:79-82.
- Lawton, J. and D. R. Strong. 1981. Community patterns and competition in folivorous insects. *The American Naturalist* 118:317-337.
- Strong, D. R. and D. S. Simberloff. 1981. Straining at gnats and swallowing ratios: character displacement. *Evolution* 35:810-812.
- Strong, D. R. 1981. The possibility of insect communities without competition: hispine beetles on Heliconia. In *Insect Life History Patterns: Habitat and Geographic Variation*. Eds. R. F. Denno and H. Dingle. Chapter 10:124-133. Springer Verlag.
- Rey, J. R., E. D. McCoy and D. R. Strong. 1981. Herbivore pests, habitat islands and the species/area relationship. *The American Naturalist* 6:611-622.
- Morrison, G., and D. R. Strong. 1981. Spatial variations in egg density and the intensity of parasitism in a neotropical chrysomelid. *Ecological Entomology* 6:155-161.
- Auerbach, M. A., and D. R. Strong. 1981. Nutritional ecology of Heliconia herbivores; experiments with fertilization and alternative hosts. *Ecological Monographs* 51:63-83.
- Strong, D. R. 1980. New ideas about parasites. Book review of "The Evolutionary Biology of Parasites," by P. W. Price. *Nature* 288, 5787:198-199.

- Morrison, G. and D. R. Strong. 1980. Spatial variations in host density and the intensity of parasitism: some empirical examples. *The Forum--Environmental Entomology* 9:149-151.
- Strong, D. R. 1980. Null hypotheses in ecology. *Synthese* 43:271-285.
- Strong, D. R. 1979. A Malthusian New Testament. Book review of An Introduction to Population Ecology by G. E. Hutchinson. *Journal of Biogeography* 6:201-204.
- Strong, D. R., L. A. Szyska and D. S. Simberloff. 1979. Tests of community-wide character displacement against the null hypothesis. *Evolution* 33:897-913.
- Strong, D. R. 1979. Biogeographical dynamics of insect-host plant communities. *Annual Review of Entomology* 24:89-119.
- Strong, D. R. and D. A. Levin. 1979. Growth form of host plants and species richness of their parasites. *The American Naturalist* 114:1-22.
- Strong, D. R. 1977. Epiphyte loads, tree falls, and perennial forest disruption: a mechanism for maintaining higher tree species richness in the tropics. *Journal of Biogeography* 4:215-218.
- Strong, D. R. 1977. Insect species richness: hispine beetles of Heliconia latispatha. *Ecology* 58:573-582.
- Strong, D. R. 1977. Microbial herbivores. Book Review of Biochemical Aspects of Plant-Parasite Relationships. Eds. J. Friend and D. R. Threlfall, 1975, Academic Press. *Science* 197:1071.
- Strong, D. R. 1977. Rolled leaf hispine beetles and their Zingiberales host plants in Middle America. *Biotropica* 9:156-169.
- Strong, D. R., E. D. McCoy, and J. R. Rey. 1977. Time and the number of herbivore species: The pests of sugarcane. *Ecology* 58:167-175.
- Strong, D. R. and M. D. Wang. 1977. Evolution of insect life histories and host plant chemistry: Hispine beetles on Heliconia. *Evolution* 31:854-862.
- Strong, D. R. and T. S. Ray, 1976. Host tree location behavior of a tropical vine (Monstera gigantea) by skototropism. *Science* 190:804-806.
- Strong, D. R. and D. A. Levin. 1975. Species richness of the parasitic fungi of British trees. *Proceedings of the National Academy of Sciences, USA* 72:2116-2119.
- Strong, D. R. 1974. Insects of British trees: Community equilibration in ecological time. *Annals of the Missouri Botanical Gardens* 61:692-701.

Strong, D. R. 1974. Nonasymptotic species richness models and the insects of British trees. PNAS, USA 71:2766-2769.

(see reviews of above publications:

Anon., Time to ecological equilibrium. Nature 253, News and Views:684, 1975. Moore, P. D. Species richness in geological time. Nature 252, News and Views:14, 1974.)

Strong, D. R. 1974. Rapid asymptotic species accumulation in phytophagous insect communities: The pests of cacao. Science 185:1064-1066.

Allen, J. D., L. W. Barnhouse, R. A. Prestbye, and D. R. Strong. 1973. On foliage arthropod communities of Puerto Rican second-growth vegetation. Ecology 54:628-632.

Strong, D. R. 1973. Amphipod amplexus, the significance of ecotypic variation. Ecology 54:1383-1388.

Strong, D. R. 1972. Life history variation among populations of an amphipod (Hyaella azteca). Ecology 53:1103-1111.

Atsatt, P. R. and D. R. Strong. 1970. The population biology of annual grassland hemiparasites. I. The host environment. Evolution 24:278-291.

