

BIBLIOGRAPHY

Papers cited in this book

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Bibliography

- Allen, M. F., C. M. Crisafulli, S. J. Morris, L. M. Egerton-Warburton, J. A. MacMahon, and J. M. Trappe. 2005. Mycorrhizae and Mount St. Helens: story of a symbiosis. Pp. 221-231 in Dale, V. D., F. J. Swanson and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Anderson, D. C. and J. A. MacMahon. 1985. Plant succession following the Mount St. Helens volcanic eruption: facilitation by a burrowing rodent, *Thomomys talpides*. *American Midland Naturalist* 114: 62-69.
- Antos, J. A. and D. B. Zobel. 2005. Plant responses in forests of the tephra-fall zone. Pp. 47-58 in Dale, V. D., F. J. Swanson and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Baasch, A., S. Tischew and H. Bruelheide. 2009. Insights into succession processes using temporally repeated habitat models: results from a long-term study in a post-mining landscape. *Journal of Vegetation Science* 20: 629-638.
- Belyea, L. R. and J. Lancaster. 1999. Assembly rules within a contingent ecology. *Oikos* 86: 402-416.
- Bishop, J. G. 2002. Early primary succession on Mount St. Helens: The impact of insect herbivores on colonizing lupines. *Ecology* 83: 191-202.
- Bishop, J. G., W. F. Fagan, J. D. Schade and C. M. Crisafulli. 2005. Causes and consequences of herbivory on prairie lupine (*Lupinus lepidus*) in early primary succession. Pp. 151-161 in Dale, V. D., F. J. Swanson, and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Bishop, J. G. and D. W. Schemske. 1998. Variation in flowering phenology and its consequences for lupines colonizing Mount St. Helens. *Ecology* 79: 534-546.
- Braatne, J. H. and L. C. Bliss. 1999. Comparative physiological ecology of lupines colonizing early successional habitats on Mount St. Helens. *Ecology* 80: 891-907.
- Callaway, R. M. and L. R. Walker. 1997. Competition and facilitation: A synthetic approach to interactions in plant communities. *Ecology* 78:1958-1965.
- Chapin, D. M., and L. C. Bliss. 1988. Soil-plant water relations of two subalpine herbs from Mount St. Helens. *Canadian Journal of Botany* 66: 809-818.
- Chapin, D. M., and L. C. Bliss. 1989. Seedling growth, physiology and survivorship in a subalpine, volcanic environment. *Ecology* 70: 1325-1334.

- Chase, J. M. 2003. Experimental evidence for alternative stable equilibria in a benthic pond food web. *Ecology Letters* 6: 733-741.
- Clark, J. S., R. Kern, E. Macklin and J. Hille Ris Lambers. 1999. Seed dispersal near and far: Patterns across temperate and tropical forests. *Ecology* 80: 1475-1494.
- Clark, J. S., M. Silman, R. Kern, E. Macklin and J. Hille Ris Lambers. 2001. Seed dispersal near and far: Patterns across temperate and tropical forests. *Ecology* 80: 1475-1494.
- Clarkson, B. D. 1990. A review of vegetation development following recent (<450 years) volcanic disturbance in North Island, New Zealand. *New Zealand Journal of Ecology* 14: 59-71.
- Crisafulli, C. M., L. S. Trippe, C. P. Hawkins and J. A. MacMahon. 2005a. Amphibian responses to the 1980 eruption of Mount St. Helens. Pp. 183-197 in Dale, V. D., F. J. Swanson and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Crisafulli, C. M., J. A. MacMahon and R. P. Parmenter. 2005b. Small-mammal survival and colonization on the Mount St. Helens volcano: 1980-2002. Pp. 199-219 in Dale, V. D., F. J. Swanson, and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Cutler, N. 2010. Long-term primary succession: a comparison of non-spatial and spatially explicit inferential techniques. *Plant Ecology* 208: 123-136.
- Dale, V. D., D. R. Campbell, W. M. Adams, C. M. Crisafulli, V. I. Dains, P. M. Frenzen, and R. F. Holland. 2005. Plant succession on the Mount St. Helens debris-avalanche deposit. Pp. 219 in Dale, V. D., F. J. Swanson, and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Dale, V. D., F. J. Swanson and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- del Moral, R. 1983. Initial recovery of subalpine vegetation on Mount St. Helens, Washington. *American Midland Naturalist* 109: 72-80.
- del Moral, R. 1993. Mechanisms of primary succession on volcanoes: a view from Mount St. Helens. Pp 79-100 in Miles, J., and D. H. Walton (eds.), *Primary Succession on Land*. Blackwell Scientific Publications, London, U. K.
- del Moral, R. 1998. Early succession on mudflows spawned by Mount St. Helens. *American Journal of Botany* 85: 820-828.
- del Moral, R. 1999a. Plant succession on pumice at Mount St. Helens. *American Midland Naturalist* 141: 101-114.
- del Moral, R. 1999b. Predictability of primary successional wetlands on pumice, Mount St. Helens. *Madroño* 46: 177-186.
- del Moral, R. 2000. Succession and species turnover on Mount St. Helens, Washington. *Acta Phytogeographica Suecica* 85: 53-62.
- del Moral, R. 2007. Vegetation dynamics in space and time: an example from Mount St. Helens. *Journal of Vegetation Science* 18: 479-488.
- del Moral, R. 2009. Increasing deterministic control of primary succession on Mount St. Helens, Washington. *Journal of Vegetation Science* 20: 1145-1154.
- del Moral, R. 2010. Thirty years of permanent vegetation plots, Mount St. Helens, Washington. *Ecology* 91: 2185.

- del Moral, R. and L. C. Bliss. 1993. Mechanisms of primary succession: Insights resulting from the eruption of Mount St. Helens. *Advances in Ecological Research* **24**: 1-66.
- del Moral, R. and C. A. Clampitt. 1985. Growth of native plant species on recent volcanic substrates from Mount St. Helens. *American Midland Naturalist* **114**: 374-383.
- del Moral, R. and A. J. Eckert. 2005. Colonization of volcanic deserts from productive patches. *American Journal of Botany* **92**: 27-36.
- del Moral, R. and E. E. Ellis. 2004. Gradients in heterogeneity and structure on lahars, Mount St. Helens, Washington, USA. *Plant Ecology* **175**: 273-286.
- del Moral, R. and S. Y. Grishin. 1999. Volcanic disturbances and ecosystem recovery. Pp.137-160 in L. R. Walker (ed.) *Ecosystems of Disturbed Ground, Ecosystems of the World 16*. Elsevier Publishers, Amsterdam, The Netherlands.
- del Moral, R. and C. C. Jones. 2002. Vegetation development on pumice at Mount St. Helens, USA. *Plant Ecology* **162**: 9-22.
- del Moral, R. and I. L. Lacher. 2005. Vegetation patterns 25 years after the eruption of Mount St. Helens, Washington. *American Journal of Botany* **92**:1948-1956.
- del Moral, R. and L. L. Rozzell. 2005. Effects of lupines on community structure and species associations. *Plant Ecology* **181**: 203-215.
- del Moral, R., J. E. Sandler and C. P. Muerdter. 2009. Spatial Factors Affect Primary Succession on the Muddy River Lahar, Mount St. Helens, Washington. *Plant Ecology* **2009**: 177-190.
- del Moral, R., J. M. Saura and J. N. Emenegger. 2010. Primary succession trajectories on a barren plain, Mount St. Helens, Washington. *Journal of Vegetation Science* **21**: 857-867.
- del Moral, R., L. A. Thomason, A. C. Wenke, N. Lozanoff, and M. D. Abata. 2012. Primary succession trajectories on pumice at Mount St. Helens, Washington. *Journal of Vegetation Science* **23**: 73-85.
- del Moral, R., J. H. Titus and A. M. Cook. 1995. Early primary succession on Mount St. Helens, Washington, USA. *Journal of Vegetation Science* **6**:107-120.
- del Moral, R. and L. R. Walker. 2007. *Environmental Disasters, Natural Recovery and Human Responses*. Cambridge University Press, Cambridge, UK.
- del Moral, R. and D. M. Wood. 1986. Subalpine vegetation recovery five years after the Mount St. Helens eruptions. Pp. 215-221 in S. A. C. Keller, *Mount St. Helens: Five Years Later*. Eastern Washington University Press, Cheney WA.
- del Moral, R. and D. M. Wood. 1993a. early primary succession on a barren volcanic plain at Mount St. Helens, Washington. *American Journal of Botany* **80**: 981-991.
- del Moral, R. and D. M. Wood. 1993b. Early primary succession on the volcano Mount St. Helens. *Journal of Vegetation Science* **4**: 223-234.
- del Moral, R. and D. M. Wood. 2012. Vegetation development on permanently established grids, Mount St. Helens (1986-2010). *Ecology* **93**: in press.
- del Moral, R., D. M. Wood and J. H. Titus. 2005. Proximity, microsites and succession. Pp. 93-110 in Dale, V. D., F. J. Swanson and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.

- Dlugosch, K. and R. del Moral. 1999. Vegetational heterogeneity along environmental gradients. *Northwest Science* 43: 12-18.
- Edwards, J. S. 1986. Derelicts of dispersal: arthropod fallout on Pacific Northwest volcanoes. Pp. 196-203 in W. Danthanaraya (ed.), *Insect flight: dispersal and migration*. Springer Verlag, New York, NY.
- Edwards, J. S. 1987. Arthropods of aeolian ecosystems. *Annual Review of Entomology* 32: 163-179.
- Edwards, J. S. and P. Sugg. 1993. Arthropod fallout as a resource in the recolonization of Mount St. Helens. *Ecology* 74: 954-958.
- Fagan, W. F., and J. G. Bishop. 2000. Trophic interaction during primary succession: Herbivores slow a plant reinvasion at Mount St. Helens. *American Naturalist* 155: 238-251.
- Fagan, W. F., J. G. Bishop and J. D. Shade. 2004. Spatially structured herbivory and primary succession at Mount St. Helens: Field surveys and experimental growth studies suggest a role for nutrients. *Ecological Entomology* 29: 398-409.
- Fastie, C. L. 1995. Causes and ecosystem consequences of multiple pathways of primary succession at Glacier Bay, Alaska. *Ecology* 76: 1899-1916.
- Fleming, M. F. 2011. Quantifying the elk "hoof print" on Mount St. Helens. Ph. D. dissertation, University of Washington, Seattle.
- Foxworthy, B. L., and M. Hill. 1982. Volcanic eruptions of 1980 at Mount St. Helens: the first 100 days. U. S. Geological Survey Professional Paper 1249.
- Frank, D. A., and R. del Moral. 1986. Thirty-five years of secondary succession in a *Festuca viridula-Lupinus latifolius* dominated meadow at Sunrise, Mount Rainier National Park, Washington. *Canadian Journal of Botany* 64: 1232-1236.
- Franklin, J. F., J. A. MacMahon, F. J. Swanson and J. R. Sedel. 1985. Ecosystem responses to the eruption of Mount St. Helens. *National Geographic Research* 1:198-216.
- Frenzen, P. M. and J. F. Franklin. 1985. Establishment of conifers from seed on tephra deposited by the 1980 eruptions of Mount St. Helens, Washington. *American Midland Naturalist* 114:83-97.
- Frenzen, P. M., K. S. Hadley, J. J. Major, M. H. Weber, J. F. Franklin, J. H. Hardison III, and S. M. Stanton. 2005. Geomorphic change and vegetation development on the Muddy River Mudflow deposit. Pp. 75-91 219 in Dale, V. D., F. J. Swanson, and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Fuller, R. N. and R. del Moral. 2003. The role of refugia and dispersal in primary succession on Mount St. Helens, Washington. *Journal of Vegetation Science* 14: 637-644.
- Gill, R. A., J. A. Boie, J. G. Bishop, L. Larsen, J. L. Apple, and R. D. Evans. 2006. Linking community and ecosystem development on Mount St. Helens. *Oecologia* 148: 312-324.
- Grime, J. P. 1974. Vegetation classification by reference to strategies. *Nature* 250: 26-31.
- Grime, J. P. 2001. *Plant strategies, vegetation processes and ecosystem properties*. John Wiley & Sons, LTD, Chichester UK.
- Grime, J. P. and S. Pierce. 2012. *The evolutionary strategies that shape ecosystems*. Wiley-Blackwell, Oxford UK.
- Grishin, S. Y., R. del Moral, P. V. Krestov and V. P. Verkholat. 1996. Succession following the catastrophic eruption of Ksudach volcano (Kamchatka, 1907). *Plant Ecology* 127: 129-153.

- Grubb, P. J. 1977. The maintenance of species-richness in plant communities: the importance of the regeneration niche. *Biological Reviews* 52: 107-145.
- Halpern, C. B., P. M. Frenzen, J. E. Means and J. F. Franklin. 1990. Plant succession in areas of scorched and blown-down forests after the 1980 eruption of Mount St. Helens, Washington. *Journal of Vegetation Science* 1: 181-194.
- Halvorson, J. J., J. L. Smith and A. C. Kennedy. 2005. Lupine effects on soil development and function during early primary succession at Mount St. Helens. Pp. 243-254.
- Harper, J. 1977. *Population biology of plants*. Academic Press, London, UK.
- Hill, M. O. and H. G. Gauch, Jr. 1980. Detrended correspondence analysis: an improved ordination technique. *Plant Ecology* 42: 47-58.
- Marler, T. E. and R. del Moral 2011. Primary succession along an elevation gradient 15 years after the eruption of Mount Pinatubo, Luzon, Philippines. *Pacific Science* 65: 157-173.
- Magnússon, B., S. H. Magnússon, and S. Fridriksson. 2009. Developments in plant colonization and succession on Surtsey during 1999-2008. *Surtsey Research* 12: 57-76.
- Major, J. J., C. M. Crisafulli, P. Frenzen, and J. Bishop. 2009. After the disaster: the hydrogeomorphic, ecological and biological responses to the 1980 eruption of Mount St. Helens. Geological Society of America Guide 15.
- Marteinsdottir, B., K. Svavarsdottir and T. E. Thorshallsdottir. 2010. Development of vegetation patterns in early primary succession. *Journal of Vegetation Science* 21: 531-540.
- McGee, A., J. E. Means, W. H. Moir and J. F. Franklin. 1987. First-year recovery of upland and riparian vegetation in the devastated area around Mount St. Helens. Pp. 168-187 in Bilderback, D. E. (ed.), *Mount St. Helens 1980: Botanical Consequences of the Explosive Eruptions*. University of California Press, Berkeley, CA.
- Morris, W. F., and D. M. Wood. 1989. The role of *Lupinus lepidus* in succession on Mount St. Helens: facilitation or inhibition? *Ecology* 70: 697-703.
- Mullineaux, D. R. 1996. Pre-1980 tephra-fall deposits erupted from Mount St. Helens. Professional Paper 1563. U.S. Geological Survey, Washington, DC.
- Mullineaux, D. R. and D. R. Crandell. 1981 The eruptive history of Mount St. Helens, Washington. Pp. 3-15, in P. W. Lipman and D. R. Mullineaux (eds.), *The 1980 Eruptions of Mount St. Helens*. Washington. Professional Paper 1250. U.S. Geological Survey, Washington, DC.
- Parmenter, R. R. 2005. Patterns of decomposition and nutrient cycling across a volcanic disturbance gradient: a case study using rodent carcasses. Pg. 233-242, in Dale, V. D., F. J. Swanson and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Pfitsch, W. A., and L. C. Bliss. 1988. Recovery of net primary production in subalpine meadows of Mount St. Helens following the 1980 eruption. *Canadian Journal of Botany* 66: 989-997.
- Pojar, J. and A. MacKinnon. 2004. *Plants of the Pacific Northwest coast* (revised). Lone Pine Publishing, Vancouver, B.C.
- Prach, K. and R. J. Hobbs. 2008. Spontaneous succession versus technical reclamation in the restoration of disturbed sites. *Restoration Ecology* 16: 363-366.
- Raunkiaer, C. 1934. *The Life Forms of Plants and Statistical Plant Geography*. Oxford University Press, Oxford, UK.

- Segura, G., T. M. Hinckley and L. B. Brubaker. 1995. Variations in radial growth of declining old-growth stands of *Abies amabilis* after tephra deposition from Mount St. Helens. *Canadian Journal of Forest Research* 25: 1484-1492.
- Seymour, V. A., T. M. Hinckley, Y. Morikawa and J. F. Franklin. 1983. Foliage damage in coniferous trees following volcanic ashfall from Mt. St. Helens. *Oecologia* 59: 339-343.
- Sklenar, P., Z. Palice, D. Stancik and Z. Soldan. 2010. Primary succession of high-altitude Andean vegetation on lahars of Volcan Cotopaxi, Ecuador. *Phytocoenogia* 40: 15-28.
- Smith, S. D. P. 2012. Identifying and evaluating causes of alternative community states in wetland plant communities. *Oikos* 121: 675-686.
- Stöcklin, J. and E. Bäumler. 1996. Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. *Journal of Vegetation Science* 7: 45-56.
- Sugg, P. M. and J. S. Edwards. 1998. Pioneer aeolian community development on pyroclastic flows after the eruption of Mount St. Helens, Washington, U.S.A. *Arctic and Alpine Research* 30: 400-407.
- Swanson, F. J. and J. J. Major 2005. Physical events, environments, and geological-ecological interactions at Mount St. Helens: March 1980—2004. Pp. 27-44 in Dale, V. D., F. J. Swanson, and C. M. Crisafulli (eds.), *Ecological Responses to the 1980 Eruption of Mount St. Helens*. Springer.
- Tagawa, H. 1964. A study of the volcanic vegetation in Sakurajima, Southwest Japan. I. Dynamics of vegetation. *Memoirs Fac. Science Kyushu University, Ser. E.* 3: 165-228.
- Tagawa, H. 1992. Primary succession and the effect of first arrivals on subsequent development of forest types. *GeoJournal* 28: 175-183.
- Tansley, A. G. 1935. The use and abuse of vegetational terms and concepts. *Ecology* 16: 284-307.
- Titus, J. H. and R. del Moral. 1998a. The role of mycorrhizae in primary succession on Mount St. Helens. *American Journal of Botany* 85: 370-375.
- Titus, J. H. and R. del Moral. 1998b. Vesicular-arbuscular mycorrhizae influence Mount St. Helens pioneer species in greenhouse experiments. *Oikos* 81:495-510.
- Titus, J. H. and R. del Moral. 1998c. Seedling establishment in different microsites on Mount St. Helens. *Plant Ecology* 134: 13-26.
- Titus, J. H. and E. Householder. 2007. Salvage logging and replanting reduce understory cover and richness compared to unsalvaged-unplanted sites at Mount St. Helens, Washington. *Western North American Naturalist* 67: 219-231.
- Titus, J. H., S. Moore, M. Arnot, and P. Titus. 1998. Inventory of the vascular flora of the blast zone, Mount St. Helens, Washington. *Madroño* 45: 146-161.
- Titus, J. H., P. J. Titus and R. del Moral. 1999. Wetland development in primary and secondary successional substrates: fourteen years after the eruption of Mount St. Helens, Washington, USA. *Northwest Science* 73: 186-204.
- Tsuyuzaki, S. 2009. Causes of plant community divergence in the early stages of volcanic succession. *Journal of Vegetation Science* 20: 959-969.
- Tsuyuzaki, S., and M. Hauki. 2008. Effects of microtopography and erosion on seedling colonisation and survival in the volcano Usu, northern Japan, after the 1977-78 eruptions. *Land Degradation and Development* 19: 233-241.

- Tsuyuzaki, S., and J. H. Titus. 1996. Vegetation development patterns in erosive areas on the Pumice Plains of Mount St. Helens. *American Midland Naturalist* 135: 172-177.
- Tsuyuzaki, S. J. H., Titus and R. del Moral. 1997. Seedling establishment patterns on the Pumice Plain, Mount St. Helens, Washington. *Journal of Vegetation Science* 8: 727-734.
- Tu, M., J. H. Titus, S. Tsuyuzaki, and R. del Moral. 1998. Composition and dynamics of the wetland seed bank on Mount St. Helens, Washington, USA. *Folia Geobotanica* 33: 3-16.
- Walker, L. R. and R. del Moral. 2003. *Primary succession and ecosystem rehabilitation*. Cambridge University Press, Cambridge, U.K.
- Walker, L. R. and E. A. Powell. 1999. Effects of seeding on road revegetation in the Mohave Desert, southern Nevada. *Ecological Restoration* 17: 1502-155.
- Weber, M. H., K. S. Hadley, P. M. Frenzen and J. F. Franklin. 2006. Forest development following mudflow deposition, Mount St. Helens, Washington. *Canadian Journal of Forest Research* 36: 437-449.
- Weither, E. and P. Keddy (Eds.). 1999. *Ecological assembly rules: perspectives, advances retreats*. Cambridge University Press, Cambridge, U.K.
- Whittaker et al. 1997 and W1999. On Krakatau
- Whittaker, R. J. and J. M. Fernández-Palacios. 2007. *Island Biogeography: Ecology, Evolution and Conservation*, 2nd edition. Oxford University Press, Oxford, U.K.
- Wing, S. L., C. A. E. Strömberg, L. J. Hickey, F. Tiver, B. Willis, R. J. Burnham, and A. K. Behrensmeyer. 2012. Floral and environmental gradients on a Late Cretaceous landscape. *Ecological Monographs* 82: 23-47.
- Wood, D. M. and M. C. Anderson. 1990. The effect of pre-dispersal seed predators on colonization of *Aster ledophyllus* on Mount St. Helens. *American Midland Naturalist* 123: 193-201.
- Wood, D. M., and R. del Moral. 1987. Mechanisms of early primary succession in subalpine habitats on Mount St. Helens. *Ecology* 68: 780-790.
- Wood, D. M., and R. del Moral. 1988. Colonizing plants on the Pumice Plains, Mount St. Helens, Washington. *American Journal of Botany* 75: 1228-1237.
- Wood, M., and R. del Moral. 2000. Seed rain during early primary succession on Mount St. Helens, Washington. *Madroño* 47: 1-9.
- Wood, D. M., and W. M. Morris. 1990. Ecological constraints to seedling establishment on the Pumice Plains, Mount St. Helens, Washington. *American Journal of Botany* 77: 1411-1418.
- Yang, S., J. G. Bishop, and M. S. Webster. 2008. Colonization genetics of an animal-dispersed plant (*Vaccinium membranaceum*) at Mount St Helens, Washington. *Molecular Ecology* 17: 731-740.
- Zobel, D. B. and J. A. Antos. 1991. Growth and development of natural seedlings of *Abies* and *Tsuga* in old-growth forests. *Journal of Ecology* 79: 985-998.
- Zobel, D. B. and J. A. Antos. 1997. A decades of recovery of understory vegetation buried by volcanic tephra from Mount St. Helens. *Ecological Monographs* 67: 317-344.