PLEASE NOTE: Normally I only report those citations I found published after 2000. But I know that several of you are interested in what I am finding on insects and on fire modeling, so I am sending you everything I found this month, including older documents.

Author(s): Aifeng Lu and Yanting Zheng Title: A raster-based forest fire regime model Source: IEEE Conference, pages 5242-5245 Year: 2011 Keywords: modeling Abstract: Considered both the natural (e.g. climate) and anthropogenic factors which contribute to regional fire dynamics, a new fire regime model is proposed. It consists of four components: fuel module, fire occurrence module, and fire behavior module, and fire effect module. We derive the... Contact Author: lvaf@igsnrr.ac.cn

Author(s): Abdullah E. Akay z Michael G. Wing Title: A GIS-based decision support system for determining the shortest and safest route to forest fires: A case study in Mediterranean Region of Turkey Source: Environ Monit Assess 184:1391-1407 Year: 2012 Keywords: modeling suppression Abstract: The ability of firefighting vehicles and staff to reach a fire area as quickly as possible is critical in fighting against forest fires. In this study, a Geographical Information System-based decision support system was developed... Contact Author: Akay@ksu.edu.tr

Author(s): Attiwill, P. M., M. F. Ryan, N. Burrows, N. P. Cheney, L. McCaw and M. Neyland Title: Logging and Fire in Australian Forests: misinterpretation, data and models, and a response to Bradstock and Price Source: Conservation Letters 7(4): 421-422 Year: 2014 Keywords: modeling silviculture Contact Author: Attiwill@unimelb.edu.au

Author(s): Accatino, Francesco and Carlo De Michele Title: Humid savanna-forest dynamics: A matrix model with vegetation-fire interactions and seasonality
Current Titles in Wildland Fire, January 2018

Source: Ecological Modelling 265 (2013) 170- 179 Year: 2013 Keywords: modeling
Abstract: Rainfall seasonality and vegetation-fire feedbacks characterize humid savannas and tropical forest dynamics. In these ecosystems fire occurrence is influenced by the amount of grass, and trees respond to fire differently according to their height. Here we... Contact Author: francesco.accatino@mail.polimi.it

Author(s): Abades, Sebastian R., Aurora Gaxiola and Pablo A. Marquet Title: Fire, percolation thresholds and the savanna forest transition: A neutral model approach Source: Journal of Ecology 2014, 102, 1386-1393 Year: 2014 Keywords: modeling
Abstract: Our results point out that the emergence of a spatial phase transition associated with percolation is a robust result of neutral metacommunity dynamics with a critical threshold of space occupancy close to pc ~ 0.6, which supports our hypothesis that the empirically observed.... Contact Author: pmarquet@bio.puc.cl

Author(s): Antonov, V. A., A. M. Grishin, Yu. M. Kovalev, and L. Yu. Naimushina Title: MODELING PRIMER CORD DETONATION IN A FOREST CANOPY WITHOUT A FIRE Source: Translated from Fizika Goreniya i Vzryva, Vol. 29, No. 4, pp. 115-123 Year: 1994 Keywords: modeling
Abstract: Mathematical modeling is used to solve two problems. optimizing the placement height of primer cord in a forest canopy to maximize the volume of displaced combustibles, and determining the effect of a reflecting screen on the effectiveness of the primer cord. Of the cord placements...

Author(s): Andreucci, F. and M. V. ARBOLINO Title: A Study on Forest Fire Automatic Detection Systems. I.- Smoke Plume Model. Source: Il Nuovo Cimento 16(1): 35-50 Year: 1993 Keywords: smoke
Abstract: A mathematical model of the smoke plume produced by a forest fire is described. The model serves to obtain an estimate of the infra-red and optical signatures of the plume, taking into account several factors...

Author(s): Abdusalam, H. A. Title: Percolation on Inhomogeneous Bethe Lattice and Forest Fire Models Source: International Journal of Theoretical Physics 37(5): 1587-1592 Year: 1998 Keywords: modeling
Abstract: The inhomogeneous Bethe lattice (IBL) is defined and studied. It is used to study the random neighbor for forest fire model, and we show that it is more realistic than the Bethe lattice, and gives large probability for the subcritical case

Author(s): Albano, Ezequiel V. Title: Critical behaviour of a forest fire model with immune trees Source: J. Phys. A Math. Gen. 27: L881-L886 Year: 1994 Keywords:
modeling behavior Abstract: A detailed study of the critical, subcritical and supercritical behaviour of a forest fire model with immune Mes is presented and it is demonstrated that the model belongs to the same universality class as Reggeon field theory. Consequently...

Author(s): Agoston Restas Title: Forest Fire Management at Aggtelek National Park Integrated Vegetation Fire Management Program from Hungary Source: IEEE Publication, 1-4244-0232-8/06/ Year: 2006 Keywords: Hungary management Abstract: Szendro Fire Department is located in the northeastern part of Hungary. The main task is to fight against wildfire and mitigate the impact of fire at the Aggtelek National Park - which belongs to the UNESCO World Heritage list. In 2004 the Fire Department started a project named Integrated Vegetation Fire Management (IVFM). The IVFM consist of two main parts:... Note: You can link to this Open Access document on FRI's web site

Author(s): Anonymous Title: Insects and the wildfires of 1998 Source: Brochure, Florida Department of Forestry, 2 pages Year: n. d. Keywords: insects Abstract: Discusses insects to expect to see after fire, Bursaphelenchus xylophilus, Ips, Dendroctonus terebrans (black terpentine beetle) Note: You can link to this Open Access document on FRI's web site

Author(s): Arthur, Mary A., Christine E. McMichael and Gretchen C. Sovkoplas Title: Using remotely-sensed imagery to monitor post-fire forest dynamics on upland oak forests on the Cumberland Plateau, Kentucky Source: 96th ESA Annual Convention 2011 Year: 2011 Keywords: remote sensing Abstract: Throughout the central hardwood and southern Appalachian forest regions, managers are using prescribed fire to achieve a suite of management objectives. When management occurs on federal lands, monitoring is mandated to determine whether objectives have been met, yet limited funding ...

Current Titles in Wildland Fire, January 2018

smouldering peat fires, to low-intensity surface fires, to intense crown fires, depending on vegetation structure, fuel moisture, prevailing climate, and weather conditions... **Note**: You can link to this Open Access document on FRI's web site

**Author(s)**: Anonymous  **Title**: Studies Show Reduced Rates of Fire Intensity and Other Benefits  **Source**: The Science of fuel treatments, Joint Fire Science Program, 2 pages  **Year**: 2017  **Keywords**: fuel management  **Note**: You can link to this Open Access document on FRI's web site

**Author(s)**: Andreu, V., J.L. Rubio, E. Gimeno-Garcia and R.Cerni  **Title**: Water Erosion Trends Under the Impact of Different Forest Fire Intensities in a Mediterranean Environment  **Source**: 12th ISCO Conference, Beijing, 2002  **Year**: 2002  **Keywords**: hydrology erosion soils  **Abstract**: In this work, the temporal evolution of the incidence of fire on water erosion in a typical Mediterranean forest environment has been evaluated. The effects of fire intensity on soil and its influence on water erosion have been studied on a permanent field station (La Concordia, Valencia, Spain) equipped with devices...  **Contact Author**: vicente.andreu-perez@uv.es  **Note**: You can link to this Open Access document on FRI's web site

**Author(s)**: Anonymous  **Title**: Insects and the wildfires of 1998  **Source**: Florida Division of Forestry, brochure, 2 pages  **Year**: n. d.  **Keywords**: insects  **Abstract**: A brochure discussing what insects will be doing after the 1998 fires  **Note**: You can link to this Open Access document on FRI's web site

**Author(s)**: Al-Rawi, K. R., J. L. Casanova and A. Calle  **Title**: IFEMS for detection undetectable forest fire  **Source**: Teledeteccion, Medio ambiente y Cambio global, 2001: 287-290  **Year**: 2001  **Keywords**: detection  **Contact Author**: kamal@latuv.uva.es

**Author(s)**: Alves, FILIPA, FILIPA LOUREIRO, LUIS MIGUEL ROSALINO, SILVIA CARVALHO, CATARINA REI AND MARGARIDA SANTOS-REIS  **Title**: EFFECTS OF FIRE ON EURASIAN BADGER’S TROPHIC ECOLOGY IN CORK OAK WOODLANDS OF SW PORTUGAL  **Source**: Galemys 19 (n' especial): 251-270, 2007  **Year**: 2007  **Keywords**: wildlife  **Abstract**: The patterns of food availability and consumption of two social units of badgers, Meles meles, were analysed in a post-fire situation in the mountain of Grandola, SW Portugal, comparing with a pre-fire situation. Negative effects of the fire event were detected in the two key-resources - fruits and

4
arthropods. However, the perceived decrease... **Note:** You can link to this Open Access document on FRI's web site **Contact Author:** Afmalves@gmail.com

**Author(s):** Andreu, Vicente, Jose Luis Rubio, Eugenia Gimeno-Garcia and Julian Campo **Title:** Initial response of recently burned soil to water erosion processes in a Mediterranean environment **Source:** 4th ESSC Congress **Year:** 2004 **Keywords:** hydrology erosions soils **Abstract:** In the Mediterranean area, actually, forest fires have been considered as a first order magnitude environmental problem. The increase in its frequency progressively reduces the recovery periods of the ecosystems. This last fact is critical in the Mediterranean countries where the fire season **Note:** You can link to this Open Access document on FRI's web site **Contact Author:** vicente.andreu-perez@uv.es

**Author(s):** Aitchison-Benell, C. W. **Title:** BOG ARACHNIDS (ARANEAE, OPILIONES) FROM MANITOBA TAIGA **Source:** The Memoirs of the Entomological Society of Canada 126(S169): 21-31 **Year:** 1994 **Keywords:** insects **Abstract:** Taiga bog arachnids, mainly collected in pitfall or pan traps, are compared for two Manitoba regions, one southern and one northern. The dominant spider families in the south are Lycosidae, Clubionidae, and Erigonidae, whereas in the north they are Erigonidae, Lycosidae, Linyphiidae, and Gnaphosidae. The southern taiga bog has 82 species, the northern taiga, 39 species, with 16 species common to both regions. Two opilionid species were collected in the south and none in the north....

**Author(s):** Anonymous **Title:** PREPAREDNESS FOR THE 2009 WILDFIRE SEASON **Source:** HEARING BEFORE THE SUBCOMMITTEE ON PUBLIC LANDS AND FORESTS OF THE COMMITTEE ON ENERGY AND NATURAL RESOURCES UNITED STATES SENATE, ONE HUNDRED ELEVENTH CONGRESS, FIRST SESSION, July 21, 2009 **Year:** 2009 **Keywords:** management policy **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Andersen, Steven M., Gregory M. Ames, Matthew G. Hohmann and Justin P. Wright **Title:** How well do plant flammability traits predict species pattern and fire behavior along a hydrologic gradient? **Source:** Poster **Year:** n. d. **Keywords:** flammability behavior **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Aagesen, D. **Title:** Burning monkey-puzzle: Native fire ecology and forest management in northern Patagonia **Source:** Agriculture and Human Values **Year:** 2004 **Keywords:** ecology argentina indigenous **Abstract:** This
article outlines the ecological and ethnobotanical characteristics of the monkey-puzzle tree (Araucaria araucana), a long-lived conifer of great importance to the indigenous population living in and around its range in the southern Andes. The article also considers the pre-Columbian and historical use of indigenous fire technology. Conclusive evidence of indigenous...

Author(s): Anonymous  Title: Dozer incident  Source: CalFire, Green Sheet, 17-CA-BDU-008717. 17-CA-BDU-009386, California Southern Region, 7 pages  Year: 2017  Keywords: vehicle accident investigation  Note: You can link to this Open Access document on FRI's web site

Author(s): Anonymous  Title: Fuel geyser incident  Source: Rapid Lesson Sharing, Lessons Learned Center, Arizona, 1 page  Year: 2017  Keywords: fuel equipment investigation  Note: You can link to this Open Access document on FRI's web site

Author(s): Anonymous  Title: Temple fire burn injury  Source: Rapid Lesson Sharing, Lessons Learned Center, Arizona, 23 pages  Year: 2017  Keywords: burn injury investigation  Note: You can link to this Open Access document on FRI's web site

Author(s): Anonymous  Title: Lessons learned  Source: U. S. Department of Agriculture, Forest Service, Pacific northwest Region, 6 pages  Year: 2017  Keywords: vehicle accidents investigation  Note: You can link to this Open Access document on FRI's web site

Author(s): Biehl, L. Charles  Title: Forest Fires, Oil Spills, and Fractal Geometry: An Investigation in Two Parts: Part 1: Cellular Automata and Modeling Natural Phenomena  Source: The Mathematics Teacher 91(8): 682-690  Year: 1998  Keywords: modeling  Contact Author: biehl@dimacs.rutgers.edu

Author(s): Baum, Thomas, Lachlan Thompson, and Kamran Ghorbani  Title: A Complex Dielectric Mixing Law Model for Forest Fire Ash Particulates  Source: IEEE GEOSCIENCE AND REMOTE SENSING LETTERS 9(5): 246-253  Year: 2012  Keywords: modeling ash  Abstract: This letter presents an empirical mixing law for forest fire ash over X-Band (8-12 GHz). Six different species of Australian flora were tested. These include eucalypt, bracken fern, she oak, wattle, cypress, and pine. The investigation highlighted the discrepancies of mixing laws based on a spherical...  Contact Author: kamran.ghorbani@rmit.edu.au
**Author(s):** Broker, Hans-Martin and Peter Grassberger **Title:** Anomalous scaling in the Bak-Chen-Tang forest fire model **Source:** Physical review E 56(5): **Year:** 1997 **Keywords:** modeling **Abstract:** We reconsider a model introduced by Bak, Chen, and Tang @Phys. Rev. A 38, 364 ~1988!# as a supposedly self-organized critical model for forest fires. We verify again that the model is not critical in two dimensions, as found also by previous authors. But we find that the model does show anomalous...

**Author(s):** Badarinath, K.V.S., K. MADHAVI LATHA, T.R. KIRAN CHAND AND M.S.R. MURTHY **Title:** MODELING POTENTIAL FOREST FIRE DANGER USING MODIS DATA **Source:** Journal of the Indian Society of Remote Sensing 32(4): 343-350 **Year:** 2004 **Keywords:** modeling **Abstract:** Generation of fire danger maps play a vital role in forest fire management like forest fire research, locating lookout towers, risk assessment and for various other simulation studies. The present study addresses remote sensing and GIS applications in generating fire danger maps for tropical deciduous forests. Fire danger variables such...

**Author(s):** Barros, Fernando J. and Maria T. Mendes **Title:** Forest fire modelling and simulation in the DELTA environment **Source:** Simulation Practice and Theory 5: 185-197 **Year:** 1997 **Keywords:** modeling **Abstract:** Traditional simulation methodology supports only changes in models state variables. Some models are better expressed by a combination of both changes in state variables and changes in structure. Dynamic Structure Discrete Event Specification...

**Author(s):** Bak, Per, Kan Chen and Maya Paczuski **Title:** Solitons in the One-Dimensional Forest Fire Model **Source:** PHYSICAL REVIEW LETTERS 86(11): 2475-2477 **Year:** 2001 **Keywords:** modeling **Abstract:** Fires in the one-dimensional Bak-Chen-Tang forest fire model propagate as solitons, resembling shocks in Burgers turbulence. The branching of solitons, creating new fires, is balanced by the pairwise annihilation of oppositely moving solitons. Two distinct...

**Author(s):** Bizzarri, FEDERICO, MARCO STORACE and ALESSANDRO COLOMBO **Title:** BIFURCATION ANALYSIS OF AN IMPACT MODEL FOR FOREST FIRE PREDICTION **Source:** International Journal of Bifurcation and Chaos 18(8): 2275-2288 **Year:** 2008 **Keywords:** modeling **Abstract:** This paper concerns the bifurcation analysis of a recently proposed second-order impact model for forest fire prediction. The analysis is carried out with respect to four pairs of system parameters and is based on a one-dimensional piecewise-smooth... **Contact Author:** marco.storace@unige.it
Current Titles in Wildland Fire, January 2018

Author(s): Brousil, Matthew R.  Title: Compounding Fire Disturbance History Encourages Coast Redwood (Sequoia sempervirens) Regeneration and Community Dominance Source: M. S. Thesis, California Polytechnic State University, 93 pages  Year: 2016 Keywords: regeneration ecology Abstract: Disturbance is fundamental to forest ecosystem function and overall health, but climate change is likely to increase both disturbance frequency and intensity in the future. Forests subject to increasingly frequent and intense disturbances are more likely to experience compounding disturbance effects. Compounding... Note: You can link to this Open Access document on FRI's web site

Author(s): Bender, John Elijah Title: Wind, Forest, Fire, and Mountain: The Evolution of Environmental Management and Local Society in Central Japan, 1450-1650 Source: Ph. D. Dissertation, University of California, Santa Barbara, ProQuest Dissertations Publishing, 2017. 10634637.  Year: 2017 Keywords: history japan

Author(s): Bre’ Orcasitas and Paul Keller Title: Navigating a new reality Source: Two More Chains 7(3): 4-11 Year: 2017 Keywords: retirement firefighters Note: You can link to this Open Access document on FRI's web site

Author(s): Botella-Martinez, M. A. and A. Fernandez-Manso Title: Study of post-fire severity in the Valencia region comparing the NBR, RdNBR and RBR indexes derived from Landsat 8 images Source: Revista de Teledeteccion 49(33-47): 33-47  Year: 2017 Keywords: severity remote sensing Abstract: In Mediterranean territories, with their characteristic climate that implies long periods of drought and rains often concentrated in torrential episodes, forest managers are faced with a series of decisions that can be urgent after a wildfire, some of them strongly correlated with the degree... Note: You can link to this Open Access document on FRI's web site Contact Author: botella2043@yahoo.es

Author(s): Bar, A., Nardini, A. and Mayr, S. Title: Post-fire effects in xylem hydraulics of Picea abies, Pinus sylvestris and Fagus sylvatica Source: New Phytol. 2017 Nov 28. doi: 10.1111/nph.14916. [Epub ahead of print] Year: 2017 Keywords: ecology Abstract: Recent studies on post-fire tree mortality suggest a role for heat-induced alterations of the hydraulic system. We analyzed heat effects on xylem hydraulics both in the laboratory and at a forest site hit by fire. Stem vulnerability to drought-induced embolism and hydraulic conductivity were measured in Picea abies, Pinus sylvestris and Fagus sylvatica. Control branches were compared with samples experimentally exposed to 90xC or damaged by a natural forest fire...
**Author(s):** Bowman, Tiffanny R. Sharp, Brock R. McMillan and Samuel B. St. Clair  
**Title:** Rodent herbivory and fire differentially affect plant species recruitment based on variability in life history traits  
**Source:** Ecosphere 8(12):  
**Year:** 2017  
**Keywords:** wildlife rodents  
**Abstract:** Rodent consumers can have strong top-down effects on plant community development via seed predation, but their influence on seedling recruitment and how it varies depending on disturbance history and plant traits are largely unknown...  
**Note:** You can link to this Open Access document on FRI's web site  
**Contact Author:** stclair@byu.edu

**Author(s):** Brown, Donald J.  
**Title:** IMPACTS OF LOW, MODERATE, AND HIGH SEVERITY FIRE ON HERPETOFAUNA AND THEIR HABITAT IN A SOUTHERN USA MIXED PINE/HARDWOOD FOREST  
**Source:** Ph. D. Dissertation, Texas State University-San Marcos, 198 pages  
**Year:** 2013  
**Keywords:** severity amphibians wildlife  
**Abstract:** The primary goals of this dissertation were: 1) to increase our knowledge of fire impacts on amphibians and reptiles, collectively referred to as herpetofauna, the least studied major terrestrial vertebrate groups in relation to fire research, 2) to improve our understanding of fire severity as a factor influencing the response of ecosystem...  

**Author(s):** Brousil, Matthew R and Sarah Bisbing  
**Title:** Influence of Compounding Fires on Coast Redwood Regeneration and Stand Structure  
**Source:** in: Proceedings of the Coast Redwood Science Symposium, September 13-16, 2016  
**Year:** 2016  
**Keywords:** sequoia sempervirens ecology  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Boyd, David  
**Title:** Use of Fire to Control French Broom  
**Source:** California Exotic Pest Plant Council 1995 Symposium Proceedings  
**Year:** 1995  
**Keywords:** exotics  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Blarquez, Olivier, Julie Talbot, Jordan Paillard, Lyna Lapointe-Elmrabti, Nicolas Pelletier and Christian Gates St-Pierre  
**Title:** Late Holocene influence of societies on the fire regime in southern Quebec temperate forests  
**Source:** Quaternary Science Reviews 180: 63-74  
**Year:** 2018  
**Keywords:** paleofire  
**Abstract:** Climatic change that occurred during the Holocene is often recognized as the main factor for explaining fire dynamics, while the influence of human societies is...
Current Titles in Wildland Fire, January 2018

apparent. In eastern North America, human influence on fire regime before European settlement has been debated, mainly because of a paucity of sites and...

**Note:** You can link to this Open Access document on FRI's web site **Contact Author:** blarquez@gmail.com

**Author(s):** Bakshandeh-Savadroodbari, Maryam, Rahim MALEKNIA, Abbas BANJ SHAFIIEI, Mohammad-Reza ZARGARAN and Ziaedin BADEHIAN **Title:** The temporal effects of forest fires on abundance and diversity of oak gall wasps (Hymenoptera: Cynipidae) **Source:** NORTH-WESTERN JOURNAL OF ZOOLOGY, available online 2017 **Year:** 2017 **Keywords:** insects **Abstract:** The galls are induced by gall inducing insects and can be considered as abnormal plant growth triggered by the gall inducer. The population of gall-forming organisms is influenced by many ecological factors such as fire, which may change their richness and diversity... **Contact Author:** bakhshandeh77@yahoo.com

**Author(s):** Britton, Delny Lucinda **Title:** A study of a Cape Mountain stream ecosystem and its response to fire **Source:** Ph. D. Dissertation, University of Cape Town, 164 pages **Year:** 1990 **Keywords:** insects **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Bisi, Roberta **Title:** Incendiari e vittime / Arsonists and Victims / Incendiaires et victimes **Source:** Rivista di Criminologia, Vittimologia e Sicurezza Anno 2 - N. 1 - Gennaio-Aprile 2008 **Year:** 2008 **Keywords:** sociology **Abstract:** Human beings need fire! Contrary to other living beings, mankind could not live without fire so it is quite astonishing to observe that most of the fires which burn on the earth are caused by man. Many fires spread all over the North Mediterranean area, from Portugal to Turkey, during the summer 2007. Human beings and fire... **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Bradshaw, S. D. and F. J. Bradshaw **Title:** Long-term recovery from fire by a population of honey possums (Tarsipes rostratus) in the extreme south-west of Western Australia **Source:** Australian Journal of Zoology 65: 1-11 **Year:** 2017 **Keywords:** wildlife ecology australia **Abstract:** The impact of two fires, six years apart, on the long-term recovery of a population of honey possums (Tarsipes rostratus) in the extreme south-west of Western Australia was documented over a 23-year period. Recovery was relatively rapid after the first fire, with catch rates reaching 78% of precatch levels within six years, but was much slower following... **Contact Author:** don.bradshaw@uwa.edu.au
Author(s): Brummel, Rachel F., Kristen C. Nelson, Pamela J. Jakes and Daniel R. Williams  
Title: What is risked and gained with risk assessment approaches to wildland fire planning? An examination of collaborative fire planning in Australia and the US  
Source: 94th ESA Annual Convention 2009  
Year: 2009  
Keywords: planning  
Abstract: People living in fire-prone areas must manage wildland fire in increasingly complex social and ecological landscapes. Policy-makers in the US and Australia have attempted to address this complexity through requiring inter-agency and community collaboration around wildland fire planning. In

Author(s): Byrne, Mitchell, Doukessa Lerias and Nichole L. Sullivan  
Title: Predicting vicarious traumatization in those indirectly exposed to bushfires  
Source: Stress and Health  
Year: 2006  
Keywords: medical psychology  
Abstract: Post-traumatic stress through indirect exposure to trauma can mimic the psychological experiences of direct victims. This is referred to as vicarious traumatization, an impairing condition that largely goes undetected in the general population. This study sought to describe this condition and predict those who may be at risk of ...

Author(s): Burns, M. and A. S. Cheng  
Title: Framing the need for active management for wildfire mitigation and forest restoration  
Source: Society and Natural Resources 20(3): 245-259  
Year: 2007  
Keywords: interface restoration sociology  
Abstract: We present results of a Q-methodology study of how diverse stakeholders in northern Colorado framed the need for immediate, active management on federal lands to mitigate wildfire risk and restore forest conditions...  
Contact Author: Antony.Cheng@ColoState.edu

Author(s): Bautista, Susana, Nuria Abad, Joan Llovet, Carme Blade, Anna Ferran, Jose M. Ponce, Rosa N. Caturla, Jose A. Alloza, Juan Bellot and V. Ramon Vallejo  
Title: SIEMBRA DE HERBACEAS y APLICACION DE MULCH PARA LA CONSERVACION DE SUELOS AFECTADOS POR INCENDIOS FORESTALES  
Source: La restauracion de la cubierta vegetal en la Comunidad Valenciana, pp 395-434 CEAM, 1996  
Year: 1996  
Keywords: mulching soils restoration

Author(s): Bautista, Susana, Juan Bellot and Ramon Vallejo  
Title: Mulching treatment for postfire soil conservation in a semiarid ecosystem. Arid Soil Res Rehabil  
Source: Arid Soil Research and Rehabilitation  
Year: 1996  
Keywords: soils restoration  
Abstract: Fire may generate soil degradation and accelerate erosion processes, depending among other factors, on the regeneration capacity of the
ecosystem. Conservation measures will be beneficial in those fragile systems where a high degradation hazard is estimated. Mulching treatment was

**Author(s):** Bigio, Erica R. **Title:** AN INTEGRATION OF TREE-RING AND ALLUVIAL RECORDS OF FIRE HISTORY AT THE MISSIONARY RIDGE FIRE, DURANGO, COLORADO **Source:** M. S. Thesis, University of Arizona, 44 pages **Year:** 2006 **Keywords:** history **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Bigio, E., T. Swetnam and C. Baisan **Title:** The Integration of Tree-Ring and Alluvial Fan Records of Fire History at the Missionary Ridge Fire near Durango, Colorado **Source:** Geological Society of America Abstracts with Programs 37(7): 111 **Year:** 2005 **Keywords:** erosion soils

**Author(s):** Bieger, Annette, Nishanta Rajakaruna and Susan Harrison **Title:** Little evidence for local adaptation to soils or microclimate in the post-fire recruitment of three Californian shrubs **Source:** Plant Ecology and Diversity iFirst, 2012, 1-10 **Year:** 2012 **Keywords:** soils ecology **Abstract:** The ability of these three species to recruit in new environments, such as in restoration settings or in response to shifting climates, is unlikely to be impeded by a need for seeds from sources that closely match their edaphic or topographic destination... **Contact Author:** Annette.bieger@env.ethz.ch

**Author(s):** Bickel, D. J. **Title:** Smoke flies (Diptera: Platypezidae) and the Sydney bushfires **Source:** Aust Entomol 23(2): 77-78 **Year:** 1996 **Keywords:** insects

**Author(s):** Brues, C. T. **Title:** Vespid wasps (Eumenes curvata) attracted to smoke **Source:** Psyche 57: 114-115 **Year:** 1950 **Keywords:** insects **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Bichet, Orphe, Angelique Dupuch, Christian Hebert, Helene Le Borgne and Daniel Fortin **Title:** Maintaining animal assemblages through single-species management: The case of threatened caribou in boreal forest **Source:** Ecological Applications 26(2): 612-623 **Year:** 2016 **Keywords:** wildlife **Abstract:** With the intensification of human activities, preserving animal populations is a contemporary challenge of critical importance. In this context, the umbrella species concept is appealing because preserving a single species should result in the protection of multiple co-occurring species. Practitioners, though... **Contact Author:** orphe.b@gmail.com
**Author(s):** Cook, Peter A., Savage, Nicholas H., Turquety, Solene, Carver, Glenn D., O'Connor, Fiona M., Heckel, Andreas, Stewart, David, Whalley, Lisa K., Parker, Alex E., Schlager, Hans, Singh, Hanwant B., Avery, Melody A., Sachse, Glen W., Brune, William, Richter, Andreas, Burrows, John P., Purvis, Ruth, Lewis, Alastair C., Reeves, Claire E., Monks, Paul S., Levine, James G., Pyle, John A.  **Title:** Forest fire plumes over the North Atlantic: p-TOMCAT model simulations with aircraft and satellite measurements from the ITOP/ICARTT campaign  **Source:** JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 112, D10S43, doi:10.1029/2006JD007563, 2007  **Year:** 2007  **Keywords:** modeling smoke  **Abstract:** Intercontinental Transport of Ozone and Precursors (ITOP) (part of International Consortium for Atmospheric Research on Transport and Transformation (ICARTT)) was an intense research effort to measure long-range transport of pollution across the North Atlantic and its impact on O3 production. During...

**Author(s):** Cencerrado, Andres, Ana Cortes, Tomas Margalef  **Title:** Prediction Time Assessment in a DDDAS for Natural Hazard Management: Forest Fire Study Case  **Source:** Procedia Computer Science 4: 1761-1770  **Year:** 2011  **Keywords:** modeling  **Abstract:** This work faces the problem of quality and prediction time assessment in a Dynamic Data Driven Application System (DDDAS) for predicting natural hazard evolution. In particular, we used forest fire spread prediction as a case study to show the applicability of the methodology. The improvement...  **Contact Author:** Acencerrado@caos.uab.es

**Author(s):** Castro, Roberto and Emilio Chuvieco  **Title:** Modeling Forest Fire Danger from Geographic Information Systems  **Source:** Geocarto International 13(1): 15-23  **Year:** 1998  **Keywords:** modeling  **Abstract:** This paper presents a methodology to obtain fire danger maps using a Geographic Information System (GIS). The study area is located in the county of Valparaiso, Central Chile. The following fire danger variables were generated for this area: fuel type maps, topography, accessibility and weather data...

**Author(s):** Collin, A., D. Bernardin, and O. Sero-Guillaume  **Title:** A PHYSICAL-BASED CELLULAR AUTOMATON MODEL FOR FOREST-FIRE PROPAGATION  **Source:** Combust. Sci. and Tech. 183: 347-369  **Year:** 2011  **Keywords:** modeling  **Abstract:** Many previous works have been dedicated to the modeling of forest fires (or bush fires) using cellular automata (CA). Usually the transition rules used by the CA are either set or obtained by identification from experimental results. The main
drawback of CA model for forest fires is the lack of sound knowledge on these transition... **Contact Author:** Anthony.collin@ensem.inpl-nancy.fr

**Author(s):** Czerpak, Tomasz  
**Title:** Forest fire modeling. IV. Models of the initiation and spread of crown fire  
**Source:** Unknown source  
**Year:** n. d.  
**Keywords:** modeling

**Abstract:** The paper presents a mathematical method of modeling the forest crown fires, and discusses a model of delivering the burning fragments of vegetation by the wind. Both models are used in FARSITE software. Crown fire model has been presented in accordance with the theory of Van Wagner...

**Author(s):** Czerpak, Tomasz  
**Title:** Forest fire modeling. Part II. Computer simulation of selected complex forest fire  
**Source:** Unknown source  
**Year:** n. d.  
**Keywords:** modeling

**Abstract:** The paper presents a simulation of the spread of fire vegetation in the selected forest complex near Novgorod. The analysis of fire development of vegetation was carried out using the software FARSITE. The data compilation, the hypothetical development fire from...

**Author(s):** Chandra, Sunil  
**Title:** Application of Remote Sensing and GIS Technology in Forest Fire Risk Modeling and Management of Forest Fires: A Case Study in the Garhwal Himalayan Region  
**Source:** Unknown publication, pages 1239-1254  
**Year:** n. d.  
**Keywords:** modeling

**Abstract:** Natural disasters are inevitable and it is impossible to fully recoup the damage caused by the disasters. But to some extent it is possible to minimize the potential risk by developing early warning strategies...  
**Contact Author:** scdangwal@yahoo.co.uk

**Author(s):** Clar, S., B. Drossel, K. Schenk and F. Schwabl  
**Title:** Self-organized criticality in forest-fire models  
**Source:** Physica A 266: 153-159  
**Year:** 1999

**Keywords:** modeling  
**Abstract:** We review properties of the self-organized critical (SOC) forest-re model (FFM). Self-organized critical systems drive themselves into a critical state without ne-tuning of parameters. After an introduction, the rules of the model, and the...

**Author(s):** Czerpak, Tomasz and Tadeusz Maciak  
**Title:** Forest fire modeling. Part I. Methods and algorithms for forest fire Modeling  
**Source:** TECHNIKA I TECHNOLOGIA, 25 pages  
**Year:** n. d.  
**Keywords:** modeling

**Abstract:** Mathematical models which are used to simulate development forest fire in software FARSITE were described in the work. Surface fire spread models were presented...  
**Note:** You can link to this Open Access document on FRI's web site
**Current Titles in Wildland Fire, January 2018**

**Author(s):** Coates, T. Adam, Alex T. Chow, Donald L. Hagan, Thomas A. Waldrop, G. Geoff Wang, William C. Bridges Jr, Mary-Frances Rogers and James H. Dozier  
**Title:** Thermocouple Probe Orientation Affects Prescribed Fire Behavior Estimation  
**Source:** Journal of Environmental Quality Abstract - Short Communications  
**Year:** 2017  
**Keywords:** prescribed burning behavior  
**Abstract:** Understanding the relationship between fire intensity and fuel mass is essential information for scientists and forest managers seeking to manage forests using prescribed fires. Peak burning temperature, duration of heating, and area...  
**Contact Author:** Achow@clemson.edu

**Author(s):** Campo, J., E. Gimeno-Garcia, V. Andreu, O. Gonzalez-Pelayo, J. L. Rubio  
**Title:** Aggregation of under canopy and bare soils in a Mediterranean environment affected by different fire intensities  
**Source:** Catena 74: 212-218  
**Year:** 2008  
**Keywords:** soil  
**Abstract:** Soil macroaggregation in relation to soil organic matter (SOM) and calcium carbonate (CaCO3) content was studied, before and after experimental fires of different intensities, in two environments (under canopy and on bare soil). In 1995, two experimental fire treatments, based on the addition...  
**Contact Author:** julian.campo@uv.es

**Author(s):** Catry, F. X., Bugalho, M., Lopes, T., Rego, F. C. and Moreira, F.  
**Title:** Post-fire effects of ungulates on the structure, abundance and diversity of the vegetation in a Mediterranean Ecosystem  
**Year:** 2007  
**Keywords:** Agriculture grazing  
**Abstract:** In total we found 24 woody species in the study plots (11 broadleaved and coniferous trees, and 13 shrubs), belonging to 19 genus and 15 distinct families. Fenced and unfenced plots had a similar number of species, with only two more species in fenced ones (one tree and one shrub), both in 2005 and 2006. Concerning the tree species...  
**Contact Author:** fcatry@mail.telepac.pt

**Author(s):** Costafreda-Aumedes, Sergi, Carles Comas and Cristina Vega-Garcia  
**Title:** Human-caused fire occurrence modelling in perspective: A review  
**Source:** International Journal of Wildland Fire 26(12): 983-998  
**Year:** 2017  
**Keywords:** cause modeling  
**Abstract:** The increasing global concern about wildfires, mostly caused by people, has triggered the development of human-caused fire occurrence models in many countries. The premise is that better knowledge of the underlying factors is critical for many...
Current Titles in Wildland Fire, January 2018

**Author(s):** Champion, G. C.  
**Title:** Melanophila on charred pines  
**Source:** Entomologist's Monthly Magazine, May 1913, pages 109-110  
**Year:** 1913  
**Keywords:** insects  
**Abstract:** After finding only one specimen of M. notata in six years, he found 38 at a blazing pine stump  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Chipman, M. L.  
**Title:** Linkages among climate, fire, and thermo-erosion in Alaskan tundra over the past three millennia  
**Source:** Journal of Geophysical Research: Biogeosciences, available online  
**Year:** 2017  
**Keywords:** climate  
**Abstract:** Amplified Arctic warming may facilitate novel tundra disturbance regimes, as suggested by recent increases in the rate and extent of thermo-erosion and fires in some tundra areas. Thermo-erosion and wildfire can exacerbate warming by releasing large permafrost carbon stocks, and interactions between disturbance regimes can lead to complex...  
**Contact Author:** fshu@illinois.edu

**Author(s):** Cruz, Miguel, Andrew Sullivan, Richard Hurley, Matt Plucinski, Jim Gould  
**Title:** The effect of fuel load and structure on grassland fire behaviour and fire danger  
**Source:** Queensland Fire and Emergency Services, Report No. EP178976, 70 pages  
**Year:** 2017  
**Keywords:** fuel behavior grasslands australia  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Currie, M., K. Speer, J. K. Hiers, J.J. O'Brien, S. Goodrick and B. Quaife  
**Title:** Pixel-Level Statistical Analyses of Prescribed Fire Spread  
**Source:** ArXiv:1712.04498v1 [nlin.CG] 12 Dec 2017  
**Year:** 2017  
**Keywords:** behavior prescribed burning  
**Abstract:** Wildland fire dynamics is a complex turbulent dimensional process. Cellular automata (CA) is an efficient tool to predict fire dynamics, but the main parameters of the method are challenging to estimate. To overcome this challenge, we compute statistical distributions...  
**Note:** You can link to this Open Access document on FRI's web site  
**Contact Author:** bquaife@fsu.edu

**Author(s):** Carlson, Kimberly M., Robert Heilmayr, Holly K. Gibbs, Praveen Noojipady, David N. Burns, Douglas C. Morton, Nathalie F. Walker, Gary D. Paoli and Claire Kremen  
**Title:** Effect of oil palm sustainability certification on deforestation and fire in Indonesia  
**Source:** Proceedings of the National Academy of Science, available online  
**Year:** 2017  
**Keywords:** Agriculture tropics slash-and-burn  
**Abstract:** Many major corporations and countries have made commitments to purchase or produce only "sustainable" palm oil, a commodity responsible for substantial tropical forest loss. Sustainability certification is the tool...
Current Titles in Wildland Fire, January 2018

most used to fulfill these procurement policies, and around 20% of global palm oil production... **Note:** You can link to this Open Access document on FRI's web site

**Contact Author:** kimcarlson@gmail.com

**Author(s):** Carbone, LUCAS M. and RAMIRO AGUILAR **Title:** Contrasting effects of fire frequency on plant traits of three dominant perennial herbs from Chaco Serrano **Source:** Austral Ecology, available online 2016 **Year:** 2016 **Keywords:** frequency ecology australia **Abstract:** Fire frequencies are currently increasing in many regions across the world as a result of anthropic activities, affecting ecological processes and plant population dynamics. Fire can generate important changes in soil properties, altering nutrient dynamics and thereby plant growth. Here we analyse fire frequency...

**Author(s):** Couteur, Michael Le **Title:** The art of saying thank you: A case study on the bushfires in New South Wales, Australia **Source:** International Journal of Nonprofit and Voluntary Sector Marketing **Year:** 1996 **Keywords:** cooperation australia **Abstract:** This paper looks at the response from charitable organisations to donations sent after the bushfires in New South Wales. Thank you letters from the various charities are given in full and their contents analysed.

**Author(s):** Coomb, Jacqueline , Jane L Rich, Angela Booth, [...] and Prasuna Reddy **Title:** Supporting Rural Australian Communities after Disaster: The Warrumbungle Bushfire Support Coordination Service **Source:** PLoS Currents **Year:** 2015 **Keywords:** interface cooperation **Abstract:** Natural disasters inflict significant trauma upon the individuals and communities in which they occur. In order to gain an understanding of the role of community-based disaster recovery support services in the post-disaster environment, we assessed the acceptability and perceived effectiveness of the Warrumbungle Bushfire Support

**Author(s):** Coe, J. A., E. R. Bigio, R. W. Blair Jr., M. Burke, S. H. Cannon, V. G. deWolfe, J. Ey, J. E. Gartner, M. L. Gillam, N. D. Knowlton, P. M. Santi and W. H. Schulz **Title:** Mass Wasting Following the 2002 Missionary Ridge Fire near Durango, Colorado: A Field Trip Guidebook **Source:** Open File Report 07-1289, Denver, US Geological Survey, 54 pages **Year:** 2007 **Keywords:** erosion soils **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Cannon, S. H., J. A. Michael, J. E. Gartner and J. A. Gleason **Title:** Assessment of Potential Debris-Flow Peak Discharges from Basins Burned by the 2002 Missionary Ridge Fire, Colorado **Source:** Open File Report 03-332, Denver, US
Geological Survey, 8 pages Year: 2003 Keywords: erosion soils Note: You can link to this Open Access document on FRI's web site

Author(s): Cannon, S. H., W. Romme, R. Wu and M. B. Thurston Title: The Geologic Impact of Wildfires in the San Juan Mountains, Southwestern Colorado Source: Geological Society of America Abstracts with Programs 35(6): 9 Year: 2003 Keywords: erosion soils

Author(s): Collart, A. Title: Observations sur les Microsania (Dipt., Platypezidae) Source: Bull Ann Soc R Entomol Belg 94: 297-298 Year: 1958 Keywords: insects

Author(s): Chandler, P. J. Title: Some dipterous opportunists at Windsor Forest, Berks: The attractions for flies of bonfires, wood ash and freshly cut logs Source: Entomologist's Gazette 29: 253-257 Year: 1978 Keywords: insects

Author(s): Champion, H. G. Title: A NOTE ON THE HABITS OF A MELANOPHILA (BUPRESTIDAE) AND OTHER INDIAN COLEOPTERA. Source: Entomologist's Monthly Magazine 54: 199-200 Year: 1918 Keywords: insects Note: You can link to this Open Access document on FRI's web site

Author(s): Collin, J. E. Title: Hormopeza obliterata Zetterstedt associated with Melanophila acuminata DeGeer on burning pines in Berkshire Source: Entomologist's Monthly Magazine 54: 278-279 Year: 1918 Keywords: insects Note: You can link to this Open Access document on FRI's web site

Author(s): Dimitrakopoulos, A. P., Dimitrios Mitrakos, Varnavas Christoforou Title: Concepts of Wildland Fire Protection of Cultural Monuments and National Parks in Greece. Case Study: Digital Telemetry Networks at the Forest of Ancient Olympia Source: Fire Technology 38: 363-372 Year: 2002 Keywords: modeling archeology Abstract: The concepts and particularities of fire protection planning for monuments of cultural heritage that are surrounded by national parks and other public wildlands are outlined, in the context of the general wildland fire problem of Greece. Typical examples of cultural monuments that were threatened by wildland fires in Greece are reported...

Author(s): Drossel, Barbara Title: Renormalization Group Approach to the Critical Behavior of the Forest-Fire Model Source: Physical Review Letters 78(7): 1392 Year: 1997 Keywords: modeling
Current Titles in Wildland Fire, January 2018

**Author(s):** Dorrer, G. A.  **Title:** A MODEL FOR PROPAGATION OF CURVILINEAR FOREST-FIRE FRONTS  **Source:** Translated from Fizika Goreniya i Vzryva 20(1): 11-19  **Year:** 1984  **Keywords:** modeling

**Author(s):** Drossel, B. and F. Schwab  **Title:** Formation of space-time structure in a forest-fire model  **Source:** Physica A 204: 212-229  **Year:** 1994  **Keywords:** modeling  **Abstract:** We present a general stochastic forest-fire model which shows a variety of different structures depending on the parameter values. The model contains three possible states per site (tree, burning tree, empty site) and three parameters ...

**Author(s):** Drossel, B. and F. Schwab  **Title:** Self-organized criticality in a forest-fire model  **Source:** Physica A 191: 47-50  **Year:** 1992  **Keywords:** modeling  **Abstract:** A forest-fire model is introduced which contains a lightning probability 5 This leads to a self-organized critical state in the limit f + 0 provided that the time scales of tree growth and burning down of forest clusters are separated. We...

**Author(s):** Drossel, B. and F. Schwabl  **Title:** Forest-fire model with immune trees  **Source:** Physica A 199: 183-197  **Year:** 1993  **Keywords:** modeling  **Abstract:** We present a generalization of the forest-fire model of P. Bak et al. by including the immunity g which is the probability that a tree is not ignited although one of its neighbors is burning. When g reaches a critical value g,(p), which depends on the tree...

**Author(s):** Duvane, J. A., Jorge, T. F., Maquia, I., Ribeiro, N., Ribeiro-Barros, A. I. F. and Antonio, C.  **Title:** Characterization of the Primary Metabolome of Brachystegia boehmii and Colophospermum mopane under Different Fire Regimes in Miombo and Mopane African Woodlands.  **Source:** Front. Plant Sci. 8:2130. doi: 10.3389/fpls.2017.02130  **Year:** 2017  **Keywords:** ecology  **Abstract:** Miombo and Mopane are ecological and economic important woodlands from Africa, highly affected by a combination of climate change factors, and anthropogenic fires. Although most species of these ecosystems are fire tolerant...  **Contact Author:** Antonio@itqb.unl.pt  **Note:** You can link to this Open Access document on FRI's web site
Current Titles in Wildland Fire, January 2018

**Author(s):** Dotson, Travis  
**Title:** What makes you matter?  
**Source:** Two More Chains 7(3): 2-3  
**Year:** 2017  
**Keywords:** retirement firefighters  
**Note:** You can link to this Open Access document on FRI's web site.

**Author(s):** Dotson, Travis  
**Title:** Leaving the firelines  
**Source:** Two More Chains 7(3): 1  
**Year:** 2017  
**Keywords:** retirement firefighters  
**Note:** You can link to this Open Access document on FRI's web site.

**Author(s):** Debinski, Diane M., Raymond A. Moranz, John T. Delaney and James R. Miller  
**Title:** A Cross-Taxonomic Comparison of Insect Responses to Grassland Management and Land-Use Legacies  
**Source:** Ecosphere 2 (2011): Article 131, doi:10.1890/ES11-00226.1  
**Year:** 2011  
**Keywords:** insects  
**Abstract:** Many species of plants and animals associated with grasslands are rare or declining due to habitat loss and degradation. Although grassland plants and insects evolved in the context of both grazing and fire, the appropriate use of grazing and fire has been debated among those concerned with protecting insect communities. We established an experiment...  
**Contact Author:** debinski@iastate.edu  
**Note:** You can link to this Open Access document on FRI's web site.

**Author(s):** Daniels, Lori D., Larissa L. Yocom Kent, Rosemary L. Sherriff and Emily K. Heyerdahl  
**Title:** Deciphering the Complexity of Historical Fire Regimes: Diversity Among Forests of Western North America  
**Source:** Dendroecology, available online 2017, pages 185-210  
**Year:** 2017  
**Keywords:** paleohistory  
**Abstract:** Wildfire is a key disturbance agent in forests worldwide, but recent large and costly fires have raised urgent questions about how different current fire regimes are from those of the past. Dendroecological reconstructions of historical fire frequency, severity, spatial variability, and...  
**Contact Author:** lori.daniels@ubc.ca

**Author(s):** Dovey, Steven, Willem Petrus de Clercq and Ben du Toit  
**Title:** A comparison of soil moisture relations between standing and clearfelled plots with burnt and unburnt harvest residue treatments of a clonal eucalypt plantation on the Zululand Coastal Plain, South Africa  
**Source:** Water S.A.  
**Year:** 2011  
**Keywords:** hydrology  
**Abstract:** The effects of clearfelling and subsequent residue retention or burning on water and nutrient balances needs to be understood and quantified on forest sites that are sensitive to loss, so that the long-term sustainable productivity of such sites can be maintained and promoted. An...  
**Contact Author:** steven.dovey@icfr.ukzn.ac.za
Current Titles in Wildland Fire, January 2018

Author(s): Douglas, G., Y. He, Y. Xiang and E. Morris Title: Use of the Extreme Value Analysis in Determining Annual Probability of Exceedance for Bushfire Protection Design Source: Fire Safety Science Year: 2014 Keywords: management
Abstract: Historically extreme value analysis has been used to guide human activities against many forms of natural hazards such as floods, storms, heat waves and wind. However, it has not been used for extreme fire weather assessment. This may be because forest fire danger index is a composite of differing parameters which may...

Author(s): Evans, A. M. and A. J. FinkRAL Title: from renewable energy to fire risk reduction: A synthesis of biomass harvesting and utilization case studies in US forests Source: GCB Bioenergy 1: 211-219 Year: 2009 Keywords: modeling fuel
Abstract: The volatile costs of fossil fuels, concerns about the associated greenhouse gas emissions from these fuels, and the threat of catastrophic wildfires in western North America have resulted in increased interest and activity in the removal... Contact Author: zander@forestguild.org

Author(s): Eburn, Michael and Geoffrey J. Cary Title: You own the fuel, but who owns the fire? Source: International Journal of Wildland Fire 26(12): Year: 2017 Keywords: law policy Abstract: This paper provides a legal analysis of the adage "whoever owns the fuel owns the fire". It is argued that the common law may not impose responsibility on those who allow fuel to naturally accumulate on their land, with the consequence that landowners face a lower legal risk by doing nothing instead of lighting hazard reduction burns.

Author(s): Efthimiou, G., V. Detsis and O. Theodoropoulou Title: Post fire forest restoration in a National Park: The Parnitha case, Greece Source: Proceedings of the 12th International Conference on Protection and Restoration of the Environment Editors: A. Liakopoulos, A. Kungolos, C. Christodoulatos, A. Koutsopsyros, ISBN 978-960-88490-6-8 Year: n. d. Keywords: ecology Abstract: The national park of Parnitha has been protected since 1961 and is of great importance for the wider Athens metropolitan area. Approximately two thirds of the Abies cephalonica forest within its borders was destroyed by the devastating fire of year 2007. Since then continuous efforts take place... Contact Author: efthimiou@teiste.gr

Author(s): Endrestol, Anders Title: Distribution of woody debris and saproxylic insects in burnt and unburnt lowland dipterocarp rainforest, East Kalimantan, Indonesia Source: M. S. Thesis, Agricultural University of Norway, Department of
This thesis was conducted as a part of the G. Fredriksson project on Malayan sun bears, carried out in the Sungai Wain Protection Forest, East Kalimantan, Indonesia. Large areas of primary rainforest were devastated due to forest fires in South-East Asia, both in 1983-84...

**Author(s):** Engber, Eamon, Jason Teraoka, and Phil van Mantgem  
**Title:** Forest Restoration at Redwood National Park: Exploring Prescribed Fire Alternatives to Second-Growth Management: A Case Study  
**Year:** 2016  
**Note:** You can link to this Open Access document on FRI's web site.

**Author(s):** Euphrat, Frederick D., Charles Williams, and Judy Rosales  
**Title:** Plantations as a Response to the Creighton Ridge Fire: A Landscape Experiment in Cazadero, California  
**Year:** 2016  
**Keywords:** sequoia sempervirens ecology  
**Note:** You can link to this Open Access document on FRI's web site.

**Author(s):** Egloff, Brian  
**Title:** Lightning strikes: rethinking the nexus between Australian Indigenous land management and natural forces  
**Source:** Australian Forestry  
**Year:** 2017  
**Keywords:** lightning indigenous  
**Abstract:** Research in the 1960s and 1970s by Merrilees, Hallam and Jones brought to prominence the concept that "fire-stick" farming shaped the Australian environment creating small-scale mosaic vegetation patterns such that the productive capacity increased and that grasslands with spaced trees were maintained, a "caring for country".

**Author(s):** Eburn, MICHAEL  
**Title:** DO AUSTRALIAN FIRE BRIGADES OWE A COMMON LAW DUTY OF CARE? A REVIEW OF THREE RECENT CASES  
**Source:** Pages 65-78, in Unknown Publication  
**Year:** n. d.  
**Keywords:** management  
**Abstract:** The law regarding the fire service's liability for alleged negligence in the way they plan for or respond to a fire is reasonably untested. This paper reports on three cases that were decided in 2012 by the Supreme Courts of New South Wales,
Current Titles in Wildland Fire, January 2018

Tasmania and the Australian Capital Territory. It is argued that the weight of authority is that the fire brigades are established to provide fire services for the ... Note: You can link to this Open Access document on FRI's web site

Author(s): Egloff, B. Title: Lightning strikes: rethinking the nexus between Australian Indigenous land management and natural forces Source: Australian Forestry, DOI:10.1080/00049158.2017.1395199 Year: 2017 Keywords: indigenous Contact Author: brian.egloff@canberra.edu.au

Author(s): Edwards, F. W. Title: Microsania pectinipennis Mg. (Dipt., Platypezidae) attracted to bonfire smoke Source: Journal of the Society for British Entomology 1: 31-32 Year: 1934 Keywords: insects Note: You can link to this Open Access document on FRI's web site

Author(s): Edwards, F. W. Title: Some further records of 'smoke flies' (Dipt. Platynezidae) Source: Journal of the Society for British Entomology 1: 32-33 Year: 1934 Keywords: insects Note: You can link to this Open Access document on FRI's web site

Author(s): Forister, Matthew L., Zachariah Gompert, James A. Fordyce and Chris C. Nice Title: After 60 years, an answer to the question: what is the Karner blue butterfly? Source: Biol. Lett. 7: 399-402 Year: 2011 Keywords: insects rare endangered karner blue butterfly Abstract: "Suitable KBB habitat decreased sharply in the twentieth century as a result of fire suppression and land conversion, resulting in range-wide declines in population size, ultimately leading to placement of the KBB on the US list of endangered species in 1992" %omforister@unr.edu

Author(s): Favier, Charly, Jerome Chave, Aline Fabing, Dominique Schwartz and Marc A. Dubois Title: Modelling forest-savanna mosaic dynamics in man-influenced environments: effects of fire, climate and soil heterogeneity Source: Ecological Modelling 171: 85-102 Year: 2004 Keywords: modeling Abstract: Forests and savannas are the major ecotypes in humid tropical regions. Under present climatic conditions, forest is in a phase of natural expansion over savanna, but traditional human activities, especially fires, have strongly influenced the succession. We here present a new model, FORSAT, dedicated to the forest-savanna mosaic... Contact Author: cfavier@cea.fr
**Author(s):** Falin Liu and Wang Lijuan  
**Title:** Study on Task Allocation Model of Forest Fire Fighting  
**Source:** Advanced Materials Research 457-458: 1129-1136  
**Year:** 2012  
**Keywords:** modeling suppression  
**Abstract:** Firefighting task allocation is the core of the forest fire fighting programs. Making use of information entropy method, combined with the fire brigades, fire fighting capability, difficulty and other factors, an analysis in the priority under the...  
**Contact Author:** liufl680@126.com

**Author(s):** Fitch, E. P.  
**Title:** HOLOCENE FIRE-RELATED ALLUVIAL CHRONOLOGY AND GEOMORPHIC IMPLICATIONS IN THE JEMEZ MOUNTAINS, NEW MEXICO  
**Source:** M. S. Thesis, University of Texas, Arlington, 162 pages  
**Year:** 2007  
**Keywords:** paleohistory hydrology erosion soils  
**Abstract:** In fire-prone areas, the geomorphic effects of fire are influenced by fire frequency and severity (i.e. fire regime) and can play a significant role in hillslope evolution. In the Jemez Mountains, tree-ring fire history reconstructions indicate that low-severity fire regimes characterized the ~300 years before Euroamerican...  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** F.-J. Xie, Xiao-Zeng Li, X.-G. Wang and D.-N. Xiao  
**Title:** Post-Fire Forest Restoration Indicated by Canopy Density in the Northern Great Hing'an Mountains  
**Source:** Landscape ecological applications in...  
**Year:** 2007  
**Keywords:** restoration china  
**Abstract:** The restoration of forest landscape has drawn much attention since the catastrophic fire took place on the northern slope of Great Hing’an Mountains in 1987. Forest canopy density, which has close relation to forest productivity, was selected as a key factor to find how much the forest quality was changed 13 years after fire...

**Author(s):** Freeman, Jeremy, Andrew C. Edwards and Jeremy Russell-Smith  
**Title:** Fire-Driven Decline of Endemic Allosyncarpia Monsoon Rainforests in Northern Australia  
**Source:** Forests, available online 2017  
**Year:** 2017  
**Keywords:** Tropics ecology  
**Abstract:** Although contemporary fire regimes in fire-prone Australian savannas are recognised as having major impacts on an array of biodiversity and environmental values, a number of studies have observed significant monsoon rainforest expansion in recent decades. Here we assess the status of a locally extensive endemic monsoon rainforest...  
**Note:** You can link to this Open Access document on FRI's web site  
**Contact Author:** Andrew.edwards@cdu.edu.au

**Author(s):** Fitch, Ryan A., Yeon Su Kim, Amy E.M. Waltz and Joe E. Crouse  
**Title:** Changes in potential wildland fire suppression costs due to restoration treatments
in Northern Arizona Ponderosa pine forests **Source:** Forest Policy and Economics 87: 101-114 **Year:** 2018 **Keywords:** economics restorationi **Abstract:** Wildfire suppression costs have been increasing since the early 1970's. With growing concern over wildfire suppression costs, our analysis addresses restoration treatment effectiveness in reducing wildfire suppression costs. We examine past fires across the Northern Arizona landscape to determine fire behavior... **Contact Author:** ryan.fitch@nau.edu

**Author(s):** Freeman, Jeremy, Andrew C. Edwards and Jeremy Russell-Smith **Title:** Fire-Driven Decline of Endemic Allosyncarpia Monsoon Rainforests in Northern Australia **Source:** Forests 8(12), 481, doi:10.3390/f8120481 **Year:** 2017 **Keywords:** rare endangered australia **Abstract:** Although contemporary fire regimes in fire-prone Australian savannas are recognised as having major impacts on an array of biodiversity and environmental values, a number of studies have observed significant monsoon rainforest expansion in recent decades. Here we assess the status of a locally... **Contact Author:** freeman_jeremy@yahoo.com **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Forkel, Matthias, Dorigo, Wouter, Lasslop, Gitta, Teubner, Irene, Chuvieco, Emilio, et al. **Title:** A data-driven approach to identify controls on global fire activity from satellite and climate observations (SOFIA V1) **Source:** Katlenburg-Lindau 10(12): 4443-4476 **Year:** 2017 **Keywords:** remote sensing climate

**Author(s):** Faerber, Johanna **Title:** Gestion par le feu et impact sur la diversite: le cas des friches sur anciennes terrasses de culture dans les Pyrenees centrales **Source:** Journal d'agriculture traditionnelle et de botanique appliquée: JATBA **Year:** 2006 **Keywords:** ecology diversity **Abstract:** In the central French Pyrenees, the covering of fallow lands by bracken and broom heath is becoming a major problem. Considering the vast areas to be managed, it is interesting to examine whether burning (a traditional pastoral practice) could be used efficiently on the forsaken agricultural terraces. The impact of fire was...

**Author(s):** Frechette, J. D., D. A. Gonzales, R. Kenny and J. R. Thompson **Title:** Evidence for a Connection between Wildfires, Erosion and Landscape Development over the Past 3600 Years in Southwestern Colorado **Source:** Geological Society of America Abstracts with Programs 35(6): 36 **Year:** 2003 **Keywords:** erosion soils
Current Titles in Wildland Fire, January 2018

Author(s): Fassnidge, William  Title: Telphusa aethiops Westw. (Lep.) in Hampshire.  Source: Journal of the Society for British Entomology 1: 245-246  Year: 1934  Keywords: insects  Note: You can link to this Open Access document on FRI's web site

Author(s): Greene, D. F. and E. A. Johnson  Title: Modelling recruitment of Populus tremuloides, Pinus banksiana, and Picea mariana following fire in the mixedwood boreal forest  Source: Can. J. For. Res. 29: 462-473  Year: 1999  Keywords: modeling ecology  Abstract: We examined the relationship between the post-fire regeneration density of Populus tremuloides Michx., Pinus banksiana Lamb., and Picea mariana (Mill.) BSP and their pre-fire basal area density at the spatial scale of 70 m (the width of the stands studied) in four fires in central Saskatchewan and one in Quebec. For these three species with mechanisms for in situ reproduction, there were highly...  Contact Author: greene@alcor.concordia.ca

Author(s): Granada, E., G. Lareo, J. L. Miguez, J. Moran, J. Porteiro, L. Ortiz  Title: Feasibility study of forest residue use as fuel through co-firing with pellet  Source: Biomass and Bioenergy 30: 238-246  Year: 2006  Keywords: fuel management  Abstract: Co-firing is a useful technology for reclaiming waste biomass as fuel. This article studies the use of three different forest residues (Eucalyptus, pine and pine bark) with pellet based on a mixture of fuels prior to combustion. Several combustion configurations, such as the basic configuration (only preheated primary air supply) and...  Contact Author: egranada@uvigo.es

Author(s): Gassibe, Pablo Vasquez, Raul Fraile Fabero, Maria Hernandez-Rodriguez, Juan Andres Oria-de-Rueda, Felipe Bravo Oviedo, Pablo Martin-Pinto  Title: Post-fire production of mushrooms in Pinus pinaster forests using classificatory models  Source: J For Res 19:348-356  Year: 2014  Keywords: modeling fungi  Abstract: This study was aimed at describing post-fire mushroom production in a Mediterranean ecosystem dominated by Pinus pinaster Ait. in the northwest of Spain and assessing the results by classificatory models...  Contact Author: pmpinto@pvs.uva.es

Author(s): Gonzalez, Jose Ramon, Marc Palahi, Antoni Trasobares and Timo Pukkala  Title: An Erratum to: A fire probability model for forest stands in Catalonia (north east Spain)  Source: Ann. For. Sci. 64  Year: 2007  Keywords: modeling  Author(s): Gomes, J. F. P. and M. Radovanovic  Title: Solar activity as a possible cause of large forest fires - A case study: Analysis of the Portuguese forest fires  Source: Science of the Total Environment 394: 97-205  Year: 2008  Keywords: cause
Abstract: Fires of large dimension destroy forests, harvests and housing objects. Apart from that combustion products and burned surfaces become large ecological problems. Very often fires emerge simultaneously on different locations...

Contact Author: jgomes@deq.isel.ipl.pt


Year: 1996 Keywords: modeling Abstract: The paper considers results of an infra-red imaging study of the dynamics of change in the brightness-temperature field of surface forest fires in laboratory settings. The dynamics of certain characteristics (combustion-front velocity, flame size, total energy, etc.) and change in the brightness-temperature field are analyzed. The procedure of establishing...

Author(s): Grishin, A. M. Title: GENERAL MATHEMATICAL MODEL FOR FOREST FIRES AND ITS APPLICATIONS Source: Combustion, Explosion, and Shock Waves 32(5): 503-517

Year: 1996 Keywords: modeling Abstract: A review is presented of the results of physical and mathematical modeling of forest fires performed at the Tomsk State University. A general physical model for forest fires is proposed, and the basic system of equations along with basic...

Author(s): Grassberger, Peter and Holger Kantz Title: On a Forest Fire Model with Supposed Self-Organized Criticality Source: Journal of Statistical Physics 6(3/4): 685-699

Year: 1991 Keywords: modeling Abstract: We study a stochastic forest fire model introduced by P. Bak et al. as a model showing self-organized criticality. This model involves a growth parameter p, and the criticality is supposed to show up in the limit ...

Author(s): Glasa, Jan and Ladislav Halada Title: On elliptical model for forest fire spread modeling and simulation Source: Mathematics and Computers in Simulation 78: 76-88

Year: 2008 Keywords: modeling Abstract: A new approach for the derivation of elliptical model of steady-state forest fire spread in time based on classical envelope theory is described. The derivation of this model known in the literature is based on the introduction of a special transform of coordinate system which allows to utilize geometrical...

Contact Author: Jan.Glasa@savba.sk
Current Titles in Wildland Fire, January 2018


Author(s): Ginzburg, Orit and Y. Steinberger Title: Effect of fire, and post-fire forest management, on soil microbial community activity, and diversity in a coniferous forest Source: 94th ESA Annual Convention 2009 Year: 2009 Keywords: microbes Abstract: Forests in Northern Israel hold tremendous landscape, biodiversity and cultural value. Fires that occurred during summer 2006 burned almost 1,200 ha of coniferous forests. Those fires, unprecedented in scope, present pressing management challenges that consider the whole forest system...

Author(s): Giannino, F., D. Ascoli, M. Sirignano, S. Mazzoleni, L. Russo and F. Rego Title: A combustion model of vegetation burning in "Tiger" fire propagation tool Source: AIP Conference Proceedings 1906, 100010 (2017), https://doi.org/10.1063/1.5012380 Year: 2017 Keywords: combustion modeling Abstract: In this paper, we propose a semi-physical model for the burning of vegetation in a wildland fire. The main physical-chemical processes involved in fire spreading are modelled through a set of ordinary differential equations, which...
Note: You can link to this Open Access document on FRI's web site Contact Author: lucia.russo@irc.cnr.it

Author(s): Guerrero, A., L. Pineda, V. Pali, J. Corbera Title: Severity study in Albinyana (Catalunya) forest fire, using SENTINEL-2 data Source: Revista de Teledeteccion Year: 2017 Keywords: severity remote sensing Abstract: The forest fire in Bonastre mountains (an area that has been several times affected by fires) on 06/01/2016, has been studied in order to obtain a Severity index. It is in the municipality of Albinyana, in the Baix Pened's region in Catalonia. The study is considered ...

Author(s): Gabinski, Zawisza S., Rosemary L. Sherriff and Jeffrey M. Kane Title: Controls of reburn severity vary with fire interval in the Klamath Mountains, California, USA Source: Ecosphere, available online 2017 Year: 2017 Keywords: severity Abstract: Over the past few decades, the frequency and number of large fires has increased in the western United States following a paucity of fire activity in many forests during most of the 20th century. Areas of repeated burning are of particular interest for understanding where there may be qualitative shifts in fire...
severity and the ecological... **Contact Author:** sherriff@humboldt.edu **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Guscio, Charles Gregory  
**Title:** RESPONSES OF WESTERN TOADS (Bufo boreas) TO CHANGES IN TERRESTRIAL HABITAT RESULTING FROM WILDFIRE  
**Source:** M. S. Thesis, University of Montana, 23 pages  
**Year:** 2007  
**Keywords:** wildlife amphibians  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Gall, Amber Elizabeth  
**Title:** The Effects of Warming Temperatures, Fire, and Landscape Change on Lake Production in Mountain Lakes, Alberta, Canada  
**Source:** M. S. Thesis, The University of Western Ontario, London, Ontario, 115 pages  
**Year:** 2015  
**Keywords:** climate  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Giessow, Jason and Paul Zedler  
**Title:** The Effects of Fire Frequency and Firebreaks on the Abundance and Species Richness of Exotic Plant Species in Coastal Sage Scrub  
**Source:** California Exotic Pest Plant Council 1996 Symposium Proceedings  
**Year:** 1996  
**Keywords:** exotics fuel break  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Gutzwiller, Kevin J., Joseph D. White, Wylie Barrow and Lori A. Randall  
**Title:** Erratum: Understanding interaction effects of climate change and fire management on bird distributions through combined process and habitat models  
**Source:** Conservation Biology, available online  
**Year:** 2017  
**Keywords:** climate

**Author(s):** Geoffroy, Erin  
**Title:** Fighting ticks with fire: A health benefit from forest management  
**Source:** Georgiahealthnews.com, April 21, 2016  
**Year:** 2016  
**Keywords:** insects  
**Abstract:** This is the third in a series of articles about health care in Southwest Georgia, an area of the state that has great health needs and challenges, but also some innovative approaches to such problems. The series is the product of a collaboration between Georgia Health News and the health and medical journalism graduate program at UGA Grady College of Journalism and Mass Communication, a partnership made possible by the Ford Foundation and Grady College.  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Gill, Nicholas, Olivia Dun, Chris Brennan-Horley and Christine Eriksen  
**Title:** Landscape Preferences, Amenity, and Bushfire Risk in New South Wales, Australia  
**Source:** Environmental Management, available online  
**Year:** 2015  
**Keywords:** risk australia  
**Contact Author:** ngill@uow.edu.au
**Author(s):** Gardner, W. J.  **Title:** Results of a Rocky Mountain forest fire studied fifty years after its occurrence  **Source:** Proceedings of the Society of American Foresters 1(2): 102-109  **Year:** 1905  **Keywords:** erosion soils

**Author(s):** Garcia, E., R. Carigan and D.R.S. Lean  **Title:** Seasonal and Interannual Variations in Methyl Mercury Concentrations in Zooplankton from Boreal Lakes Impacted by Deforestation or Natural Forest Fires  **Source:** Environmental Monitoring and Assessment 131: 1-11  **Year:** 2007  **Keywords:** hydrology toxicity  **Abstract:** We compared the effects of natural and anthropogenic watershed disturbances on methyl mercury (MeHg) concentration in bulk zooplankton from boreal Shield lakes. MeHg in zooplankton was monitored for three years in nine lakes impacted by deforestation...  **Contact Author:** egarcia@jacqueswhitford.com

**Author(s):** Galloway McLean, Kirsty  **Title:** Climate Change Experiences in Northern Australia - Health, Adaptation, Fire Management and Global Relevance  **Source:** Proceedings of the International Public Forum on Indigenous Peoples and Climate Change - The Tropical Australian Experience, United Nations University - Traditional Knowledge Initiative, Darwin, Australia  **Year:** 2009  **Keywords:** climate  **Contact Author:** Tki@ias.unu.edu  **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Hiep Xuan Huynh, Tai Tan Phan, Lan Phuong Phan and Nguyen Tran Trinh  **Title:** The Coverage Model for the Forest Fire Detection Based on the Wireless Sensor Network  **Source:** ICST Institute for Computer Sciences, Social Informatics and Telecommunications Engineering 2016, P.C. Vinh and V. Alagar (Eds.): ICCASA 2015, LNICST 165, pp. 187-197, 2016.  **Year:** 2016  **Keywords:** modeling detection  **Abstract:** Wireless sensor networks are being effectively applied in the forest fire detection. Building a model of sensors covering the entire area of the forest is the important problem. This paper proposes the coverage model using the new approach to decrease the number of sensors. With this approach,  **Contact Author:** hxhiep ctu.edu.vn

**Author(s):** Huesca, Margarita, Silvia Merino-de-Miguel, Federico Gonzalez-Alonsoc, Sergio Martinez, Jose Miguel Cuevas and Abel Calle  **Title:** Using AHS hyper-spectral images to study forest vegetation recovery after a fire  **Source:** International Journal of Remote Sensing 34(11): 4025-4048  **Year:** 2013  **Keywords:** modeling ecology  **Abstract:** Recent advances in sensor technology have led to the development of new hyperspectral instruments capable of measuring reflected
radiation over a wide range of wavelengths. These instruments can be used to assess the... Contact Author: silvia.merino@upm.es

Author(s): Hiep Nguyen Duc, Ho Quoc Bang and Ngo Xuan Quang Title: Modelling and prediction of air pollutant transport during the 2014 biomass burning and forest fires in peninsular Southeast Asia Source: Environ Monit Assess 188: 106 Year: 2016 Keywords: modeling smoke Abstract: During the dry season, from November to April, agricultural biomass burning and forest fires especially from March to late April in mainland Southeast Asian countries of Myanmar, Thailand, Laos and Vietnam frequently cause severe particulate... Contact Author: nguyenduchiep@tdt.edu.vn

Author(s): Hergarten, S. Title: The Forest-Fire Model - Tuning and Universality Source: Pages 109-124, Chapter 6, in: Self-Organized Criticality in Earth Systems, Springer-Verlag Berlin Heidelberg Year: 2002 Keywords: modeling Author(s): Heisler, J. L., J. M. BRIGGS, A. K. KNAPP, J. M. BLAIR AND A. SEERY Title: DIRECT AND INDIRECT EFFECTS OF FIRE ON SHRUB DENSITY AND ABOVEGROUND PRODUCTIVITY IN A MESIC GRASSLAND Source: Ecology 85(8): 2245-2257 Year: 2004 Keywords: ecology grasslands Abstract: Determinants of the balance between grass and woody vegetation in grasslands and savannas have received considerable attention because of the potential for dramatic shifts in ecosystem structure and function as one growth... Contact Author: jheisler@lamar.colostate.edu

Author(s): HAN Jie, YING Ling-Xiao and LI Gui-Xiang Title: Spatial patterns of species diversity in the herb layer of early post-fire regeneration in mixed Pinus yunnanensis forests Source: Chin. J. Plant Ecol Year: 2016 Keywords: regeneration china Abstract: Aims Herb layer plays an important role in maintaining ecosystem functioning of forests. The aims of this study were to determine the pattern of species diversity in early post-fire regeneration of the herb layer in mixed Yunnan pine forests and to identify the effects of topography, fire severity, pre-fire vegetation and herb species...

Author(s): Halofsky, Jessica E. and David E. Hibbs Title: Controls on early post-fire woody plant colonization in riparian areas Source: Forest Ecology and Management 258 (2009) 1350-1358 Year: 2009 Keywords: wetlands ecology Abstract: Fire in riparian areas has the potential to influence the functions riparian vegetation provides to streams and aquatic biota. However, there is little
information on the effects of fire on riparian areas. The objectives of the present study were to: (i) determine... Contact Author: jhalo@u.washington.edu

Author(s): Harris, L., and A. H. Taylor Title: Previous burns and topography limit and reinforce fire severity in a large wildfire Source: Ecosphere 8(11):e02019. 10.1002/ecs2.2019 Year: 2017 Keywords: severity Abstract: In fire-prone forests, self-reinforcing fire behavior may generate a mosaic of vegetation types and structures. In forests long subject to fire exclusion, such feedbacks may result in forest loss when surface and canopy fuel accumulations lead to unusually severe fires. We examined drivers of fire severity in one large (>1000 km²) wildfire in the western United States... Note: You can link to this Open Access document on FRI's web site Contact Author: lbh146@psu.edu

Author(s): Hastings, Marla S. and Joseph M. DiTomaso Title: Fire Controls Yellow Starthistle (Centaurea solstitialis) in California Grasslands. Source: California Exotic Pest Plant Council 1996 Symposium Proceedings Year: 1996 Keywords: exotics Note: You can link to this Open Access document on FRI's web site

Author(s): Harvey, Brian J. Title: Human-caused climate change is now a key driver of forest fire activity in the western United States Source: Proceedings of the National Academy of Sciences Year: 2016 Keywords: climate Abstract: Effects of climate warming on natural and human systems are becoming increasingly visible across the globe. For example, the shattering of past yearly records for global high temperatures seems to be a near-annual event, with the five hottest years since 1880 all occurring since 2005 (1). Not coincidentally, the single hottest year on...

Author(s): Hiekp Nguyen Duc, Sean Watt, David Salter and Toan Trieu Title: Modelling October 2013 bushfire pollution episode in New South Wales, Australia Source: The 31st International Symposium on automation and robotics in Construction and Mining (ISARC 2014), 6 pages Year: 2014 Keywords: smoke Note: You can link to this Open Access document on FRI's web site

Author(s): Henry, Aureade and Sylvie Beyries Title: Fire, hearths and firewood: ethnoarchaeology and experimental archaeology for understanding past human activities linked to fire: The contribution of charcoal analysis Source: Unpublished ms., 1 page Year: n. d. Keywords: paleohistory Abstract: Ethnoarchaeology and experimentation are two highly complementary approaches, which are extremely fruitful for the prehistorian studying the archaeology of techniques. The understanding of past human gestures and activities relies on a systemic
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approach, for which not only the motivations... Note: You can link to this Open Access document on FRI's web site Contact Author: sylvie.beyries@cepam.cnrs.fr

Author(s): Hawley, Jerron, Graham Hurley and Steve Sackett Title: Into the Fire: The fight to save Fort McMurray Source: (book) McxClelland and Stewart, Canada, 147 pages Year: 2017 Keywords: canada suppression interface

Author(s): Hoffman, Kira M., Ken P. Lertzman and Brian M. Starzomski Title: Ecological legacies of anthropogenic burning in a British Columbia coastal temperate rain forest Source: Journal of Biogeography 2017, 13 pages Year: 2017 Keywords: history indigenous Abstract: Sixteen low- and mixed-severity fires were recorded from 1376 to 1893. The abundance of traditional plants and the density of western redcedar trees were best predicted by the location of former habitation sites and shorter mean fire intervals. Lightning is too rare to explain the pattern of fire activity in the study area. No fire activity was detected after 1893, coinciding with the relocation of indigenous groups from the study area.... Contact Author: khoff@uvic.ca

Author(s): Jianwei Li, Lvqing Yang, Xiaowen Li and Huiru Zheng Title: Visualization of local wind field based forest-fire's forecast modeling for transportation planning Source: Multimed Tools Appl, available online 2016 Year: 2016 Keywords: modeling Abstract: The forest fire occurs every year and brings huge losses to human life and property. How to predict the trend of forest fire accurately for commanders to make decisions in a very short period of time, has become a hot issue of research in... Contact Author: lqyang@xmu.edu.cn

Author(s): Jupp, Tim E., Christopher M. Taylor, Heiko Balzter and Charles T. George Title: A statistical model linking Siberian forest fire scars with early summer rainfall anomalies Source: GEOPHYSICAL RESEARCH LETTERS, VOL. 33, L14701, doi:10.1029/2006GL026679 Year: 2006 Keywords: modeling Abstract: Forest fires in Siberia have a significant effect on the global carbon balance. It is therefore of interest to study the environmental factors that may be responsible for their variability. Here we examine variability in...

Author(s): Jia Wang and Zhongke Feng Title: Study on forest fire spread model based on MODIS image Source: IEEE, 78-1-4244-7874-3/10/ Year: 2010 Keywords: modeling Abstract: In order to improve the study on the happen and spread of forest fires, people established forest fire spread and forecasting model through the data which came from experiments and observations. Base on MODIS data,
this study used data technology of remote sensing... **Contact Author:** Wangjia2002_0@163.com

**Author(s):** Jiang Naizhun, Duan Wenbiao and Zhu Feng **Title:** STUDY ON THE EFFECT OF CLIMATE CHANGE ON FOREST FIRE IN HEILONGJIANG PROVINCE **Source:** I. Northeast For. Univ. Vol. Z No. 1, Mar. 1996 **Year:** 1996 **Keywords:** climate china **Abstract:** According to the data of historical climate passed 100 years, the comprehensive effect of various factors, including seawater temperature, sunspots" activities, volcanic explosion, co2 concentration, o3 concentration and atmospheric circulation index, climate change of Heilong jiang province, gas analyzed The tendency of climate change of Heilong... **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Jia-gang Zhao, Shi-you Li, Tong-lin Zhao and Ning Chen **Title:** Prediction Model for Postfire Mortality of Pinus yunnanensis in Central Yunnan Province **Source:** Computer and Automation Engineering, 2009. ICCAE '09. International Conference on **Year:** 2009 **Keywords:** modeling ecology china **Abstract:** Prediction model for post-fire mortality based on fire resistance of Pinus yunnanensis and the information at damage trees after forest fire could provide theory basis for estimating damage of forest fire and designing schemes of vegetation restoration in burned area in short time after forest fire. Post-fire mortality and crown-fire..

**Author(s):** Jimenez-Ruano, Adrian, Marcos Rodrigues Mimbrero and Juan de la Riva Fernandez **Title:** Understanding wildfires in mainland Spain. A comprehensive analysis of fire regime features in a climate-human context **Source:** Applied Geography 89: 100-111 **Year:** 2017 **Keywords:** climate **Abstract:** Understanding fire regime is a crucial step towards better knowledge of the wildfire phenomenon. However, the concept itself, in spite of its widespread use, still lacks a clear, widely accepted definition and there is no general agreement on which features define it best. In this paper we provide... **Contact Author:** jimenez@unizar.es

**Author(s):** Jain, Piyush, Xianli Wang and Mike D. Flannigan **Title:** Trend analysis of fire season length and extreme fire weather in North America between 1979 and 2015 **Source:** International Journal of Wildland Fire 26(12): **Year:** 2017 **Keywords:** statistics conflagration **Abstract:** A fire weather climatology was constructed for North America from 1979 to 2015, based on the North American Regional Reanalysis and the Canadian Fire Weather Index. A trend analysis of potential fire season length and extreme fire weather shows that fire danger has significantly increased in some parts of North America.
Author(s): Jules, Erik S., Aaron M. Ellison, Nicholas J. Gotelli, Sheilah Lillie, George A. Meindl, Nathan J. Sanders and Alison N. Young. Title: The influence of fire on a rare serpentine plant assemblage: A five year study of Darlingtonia fens American Journal of Botany 98(5): 801-811 Year: 2017 Keywords: ecology rare endangered Abstract: Burning of Darlingtonia fens has detectable, albeit modest, effects on serpentine communities. Because fens have little or no canopy cover, fire has little influence on light availability in this system. This relatively small resource change, combined with high soil moisture and well-developed underground organs of fen plants, produces a highly resilient assemblage.... Contact Author: erik.jules@humboldt.edu

Author(s): Konstantinos G. Stokos, Socrates I. Vrahliotis, Theodora I. Pappou and Sokrates Tsangaris Title: A comparative numerical study of turbulence models for the simulation of fire incidents: Application in ventilated tunnel fires Source: Cogent Engineering 2: 13 pages Year: 2015 Keywords: modeling Abstract: The objective of this paper is to compare the overall performance of two turbulence models used for the simulation of fire scenarios in ventilated tunnels. Two Reynolds Averaged Navier-Stokes turbulence models were used... Contact Author: kstokos@mail.ntua.gr

Author(s): Kozik, V. I., E. S. Nezhevenko, and A. S. Feoktistov Title: Studying the Method of Adaptive Prediction of Forest Fire Evolution on the Basis of Recurrent Neural Networks Source: Optoelectronics, Instrumentation and Data Processing 50(4): 395-401 Year: 2014 Keywords: modeling Abstract: A software system is presented for implementation of a fire model on the basis of a recurrent neural network, which ensures real-time simulation of fire evolution. The quality of traditional learning and learning based on the Kalman filter in experiments performed with ... Contact Author: nejevenko@iae.nsk.su

Author(s): Kercher, J. R. and Axelrod, M. C. Title: Analysis of SILVA: A model for forecasting the effects of SO 2 pollution and fire on western coniferous forests Source: Ecol. Modelling, 23: 165-184 Year: 1984 Keywords: modeling Abstract: A forest succession simulator, SILVA, has been developed for the mixed-conifer forest type of the Sierra Nevada, California, to simulate the effects of SO 2 and fire on forest dynamics. SILVA was developed by extensively modifying a northeastern...
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**Author(s):** Komarov, A. S. and T. S. Kubasova  
**Title:** Modeling Organic Matter Dynamics in Conifer-Broadleaf Forests in Different Site Types upon Fires: A Computational Experiment  
**Source:** Biology Bulletin 34(4): 408-416  
**Year:** 2007  
**Keywords:** modeling soils  
**Abstract:** The effect of forest fires differing in intensity on organic matter dynamics in forest soils has been assessed in different types of forest sites using the EFIMOD system of models. Differences between the patterns of organic matter dynamics according to scenarios of forest ecosystem...

**Author(s):** Khan, V. M.  
**Title:** Long-range Forecasting of Forest Fire Danger Based on the SLAV Model Seasonal Ensemble Forecasts  
**Source:** Russian Meteorology and Hydrology 37(8): 505-513  
**Year:** 2012  
**Keywords:** modeling  
**Abstract:** Developed is a scheme of the long-range forest fire danger (FD) forecasting based on the computation of the Nesterov's index and on hydrodynamic forecasts of air temperature and precipitation of the SLAV model. The satellite information on the climatic distribution...

**Author(s):** Komarov, Alexander, Vladimir Shanin, Aleksey Manov, Mikhail Kuznetsov, Andrey Osipov and Kapitolina Bobkova  
**Title:** Modeling the Dynamics of Natural Forest Ecosystems in the Northeast of European Russia under Climate Change and Forest Fires  
**Source:** Ecoscience 21(3-4): 253-264  
**Year:** 2014  
**Keywords:** modeling  
**Abstract:** The individual-based EFIMOD simulation model was used for regional-scale assessments of the dynamics of basic characteristics of the carbon and nitrogen balance in the forest ecosystems of north central Russia. Two forest strict nature reserves were chosen as case studies. Data from the National Forest Inventory...  
**Contact Author:** shaninvn@gmail.com

**Author(s):** Karanikola, Paraskevi, Stilianos Tampakis, Garyfallos Arabatzis, Aristidis Maheridis  
**Title:** Study on citizens' information about forest fires: The case of Kavala  
**Source:** Procedia Technology 8: 482-487  
**Year:** 2013  
**Keywords:** media communication  
**Abstract:** Well-informed communities form an integral part of forest fire prevention and control mechanisms, which is why it is important to be aware of the degree of information absorbed by citizens, and the main sources from which it is drawn. The present study was conducted in the city of Kavala, using a questionnaire which examined...  
**Contact Author:** pkaranik@fmenr.duth.gr

**Author(s):** Kearney, Michael J.  
**Title:** Compact directed percolation with modified boundary rules: A forest fire model  
**Year:** 2002  
**Keywords:** modeling  
**Abstract:** A modified version of compact directed percolation on a square lattice is examined in the context of a model problem for
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the spread of forest fires. The modification relates to conditioning the extent of the fire spread... **Contact Author:** m.j.kearney@lboro.ac.uk

**Author(s):** Kan Chen and Per Bak  
**Title:** Emergence of complex dissipative structures in the Bak-Chen-Tang forest fire  
**Source:** Physica A 321: 256-261  
**Year:** 2003  
**Keywords:** modeling  
**Abstract:** The Bak-Chen-Tang forest (re model (Phys. Lett. A 147 (1999) 297) was proposed as a toy model of turbulent systems, where energy (in the form of trees) is injected uniformly and globally, but is dissipated (burns) locally. We review the existing...  
**Contact Author:** kan chen@nus.edu.sg

**Author(s):** Kuleshov, A. A., B. N. Chetverushkin, E. E. Myshetskaya  
**Title:** Parallel computing in forest fires two-dimension modeling  
**Source:** Computers and Fluids 80: 202-206  
**Year:** 2013  
**Keywords:** modeling  
**Abstract:** A two-dimensional two-phase mathematical model of forest fires is considered. The model is derived by averaging the three-dimensional equations over the thickness of the forest fuel material layer. The results of a demonstrative numerical simulation of the process of forest fire spread using multiprocessor computer are presented...  
**Contact Author:** Andrew_kuleshov@mail.ru

**Author(s):** Kan CHEN, PER BAK and C. Jayaprakash  
**Title:** EXTENDED SELF-SIMILARITY IN THE FOREST-FIRE MODEL  
**Source:** International Journal of Modern Physics B 17(22-24): 3947-3949  
**Year:** 2003  
**Keywords:** modeling  
**Abstract:** The Bak-Chen-Tang forest _re model1 was proposed as a toy model of turbulent systems, where energy (in the form of trees) is injected uniformly and globally, but is dissipated (burns) locally. We review the existing...

**Author(s):** Kan Chen, Per Bak and Mogens H. Jensen  
**Title:** A deterministic critical forest fire model  
**Source:** Physics Letters A 149(4): 207-210  
**Year:** 1990  
**Keywords:** modeling  
**Abstract:** A continuous, deterministic version of a turbulent forest fire model is studied numerically. Driven by uniform energy input, the self-organized critical state exhibits power-laws spatial distribution of energy storage and fractal energy dissipation. The critical dynamics is weakly chaotic, with zero Lyapunov exponent and power law divergence of nearby trajectories...

**Author(s):** Kopyshev, V. P.  
**Title:** THE "FOREST FIRE" DETONATION MODEL  
**Source:** Moscow. Translated from Fizika Goreniya i Vzryva 23(4): August, 1987  
**Year:** 1987  
**Keywords:** modeling  
**Note:** You can link to this Open Access document on FRI's web site
Author(s): Kraaij, T. Title: Changing the fire management regime in the renosterveld and lowland fynbos of the Bontebok National Park Source: South African Journal of Botany 76: 550-557 Year: 2010 Keywords: management south africa Abstract: This paper evaluates the history of fire management in the Bontebok National Park (3435 ha) over a period of almost four decades. A GIS database was compiled of all fires between 1972 and 2009 and the fire regime was analysed in terms of the frequency, season, size and cause of fires. Since the early 1970s, short interval burning... Contact Author: TinekeK@sanparks.org

Author(s): Kaltsas, Dimitris, Apostolos Trichas and Moysis Mylonas Title: Temporal organization patterns of epigean beetle communities (Coleoptera: Carabidae, Tenebrionidae) in different successional stages of eastern Mediterranean maquis Source: Journal of Natural History 46(7-8): 495-515 Year: 2012 Keywords: insects Contact Author: dimitris@nhmc.uoc.gr

Author(s): Kinsella, Erin K. Title: A comparison of terrestrial arthropods on post-fire forested landscapes under different management regimes in southwestern Alberta Source: M. S. Thesis, University of Calgary, Dept. of Biological Sciences Year: 2003 Keywords: insects

Author(s): Komarov, Tatiana A., Lidiya Sibirina, M.J. Papaik and HoSang Kang Title: Trends of Post-fire Forest Recovery in the South Sikhote-Alin Mountains, Russian Far East Source: Journal of the Korean Env. Res. Tech 16(3): 83-95 Year: 2013 Keywords: ecology Abstract: To understand natural regeneration and stand development after fire in mixed broadleaved-coniferous forests of Sikhote-Alin Mountains, ten sample plots of size were established in 1975 and 1983 at the stands burned by wildfires in 1973 and 1982, respectively. And, the number of naturally regenerated seedlings were monitored in ... Contact Author: mata41@mail.ru

Author(s): Kitzberger, T., Falk, D. A., Westerling, A. L. and Swetnam, T. W. Title: Direct and indirect climate controls predict heterogeneous early-mid 21st century wildfire burned area across western and boreal North America Source: PLoS ONE 12(12):e0188486. https://doi.org/10.1371/journal.pone.0188486 Year: 2017 Keywords: climate Abstract: Predicting wildfire under future conditions is complicated by complex interrelated drivers operating across large spatial scales. Annual area burned (AAB) is a useful index of global wildfire activity. Current and antecedent seasonal climatic conditions, and the timing of snowpack melt, have
Current Titles in Wildland Fire, January 2018

been suggested as important... **Contact Author:** kitzberger@comahue-conicet.gob.ar

**Author(s):** Krofcheck, Daniel J., Matthew D. Hurteau, Robert M. Scheller and E. Louise Loudermilk  **Title:** Prioritizing forest fuels treatments based on the probability of high-severity fire restores adaptive capacity in Sierran forests  **Source:** Glob Change Biol. 2017, 1-9.  **Year:** 2017  **Keywords:** fuel severity  **Abstract:** In frequent fire forests of the western United States, a legacy of fire suppression coupled with increases in fire weather severity have altered fire regimes and vegetation dynamics. When coupled with projected climate change, these conditions have the potential to lead to vegetation type change...  **Note:** You can link to this Open Access document on FRI's web site  **Contact Author:** mhurteau@unm.edu

**Author(s):** Kaltsas, Dimitris, Apostolos Trichas and Moysis Mylonas  **Title:** Temporal organization patterns of epigean beetle communities (Coleoptera: Carabidae, Tenebrionidae) in different successional stages of eastern Mediterranean maquis  **Source:** Journal of Natural History 46(7-8): 495-515  **Year:** 2012  **Keywords:** insects  **Abstract:** This two-year study explores the community structure and temporal dynamics of carabid and tenebrionid beetles in five eastern Mediterranean juniper maquis formations in relation to successional stage. Based on vegetation...  **Contact Author:** dimitris@nhmc.uoc.gr

**Author(s):** Kafle, Shesh Kanta  **Title:** Effects of forest fire protection on tree phenology in a tropical deciduous dipterocarp-oak forest of doi suthep-pui National Park, Thailand  **Source:** Proceedings of the euro-Asia Space Week on cooperation in Space - "Where East and West Finally Meet", 23-27 November 1998, Singapore, ESA SP-430, February 1999  **Year:** 1999  **Keywords:** Tropics

**Author(s):** Kennison, Kristen, Kerry Wilkinson and Mark Gibberd  **Title:** Latest Developments in the Investigation of Smoke Derived Taint in Grapes and Wine  **Source:** Government of Western Australia, Curtin University of Technology and Australia Government, 8 pages  **Year:** n. d.  **Keywords:** Agriculture australia smoke  **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Kirrilly Rebecca Thompson, Laura Haigh and Bradley Philip Smith  **Title:** Planned and ultimate actions of horse owners facing a bushfire threat: Implications for natural disaster preparedness and survivability  **Source:** International Journal of Disaster Risk Reduction  **Year:** 2017  **Keywords:** pets
Abstract: During disasters, the presence of companion animals is an identified risk for household relocation failure as well as premature return. In Australia, where bushfires are a regular summer threat, householders are encouraged to develop a written bushfire action plan that includes pets and animals. As part of this plan, householders are...

Author(s): Keeley, Jon
Title: Why were California's wine country fires so destructive?
Source: The Conversation, available online 2017
Year: 2017
Keywords: interface agriculture
Note: You can link to this Open Access document on FRI's web site

Author(s): Kulkarni, Manoj G., Habteab M. Ghebrehiwot, Kevin P. Kirkman and Johannes Van Staden
Title: Response of Grass Seedlings to Smoke-Water and Smoke-Derived Butenolide in the Absence of Macronutrients (Nitrogen, Phosphorus, and Potassium)
Source: Rangeland Ecol Manage 65:31-38
Year: 2012
Keywords: regeneration smoke ecology
Abstract: Compositional transformation of South African semiarid grasslands and savannas owing to changes in soil nutrient status and fire-linked attributes is often reported. However, mechanisms of change are not fully understood. Currently, plant-derived smoke has attracted much attention as a fire-related cue...
Contact Author: rcpgd@ukzn.ac.za

Author(s): Kessel, E. L.
Title: Microsanias attracted to cold smoke (Diptera: Platypezidae)
Source: Wasmann J Biol 18: 312-313
Year: 1960
Keywords: insects

Author(s): Klocke, David, Anke Schmitz and Helmut Schmitz
Title: Fire-Adaptation in Hypocerides nearcticus Borgmeier and Anabarhynchus hyalipennis Marquart and New Notes about the Australian "Smoke Fly" Microsania australis Collart (Diptera: Phoridae, Therevidae and Platypezidae)
Source: The Open Entomology Journal, 2011, 5, 10-14
Year: 2011
Keywords: insects
Abstract: This study deals with the fire-adapted behaviour of three Australian fly species on freshly burnt areas in Western Australia. The smoke fly, Microsania australis Collart (Platypezidae), swarms in smoke plumes. Our field studies present new notes about the ecology of Microsania, especially with respect to its ecological niche. Additionally...
Contact Author: dklocke@uni-bonn.de

Author(s): LI Xiuzhen, HE Hong S, WANG Xugao1, XIE Fuju, HU Yuanman, LI Yuehui
Title: Tree Planting: How Fast Can It Accelerate Post-fire Forest Restoration? A Case Study in Northern Da Hinggan Mountains, China
Current Titles in Wildland Fire, January 2018

20(6): 481-490 Year: 2010 Keywords: modeling restoration china Abstract: In 1987, a catastrophic fire burned over 1 330 000 ha in the densely forested area of the Da Hinggan Mountains in the northeastern China. After the fire, intensive management including burned trunk harvesting and coniferous tree planting had been conducted to accelerate forest restoration. To study the long term effect of these activities on forest recovery, we used a simulation modeling approach to study long-term (300 years) forest Contact Author: Landscape2001@sina.com

Author(s): Lafon, Charles W., John D. Waldron, David M. Cairns, Maria D. Tchakerian, Robert N. Coulson and Kier D. Klepzig Title: Modeling the Effects of Fire on the Long-Term Dynamics and Restoration of Yellow Pine and Oak Forests in the Southern Appalachian Mountains Source: Restoration Ecology 15(3): 400-411 Year: 2007 Keywords: modeling Abstract: We used LANDIS, a model of forest disturbance and succession, to simulate successional dynamics of forests in the southern Appalachian Mountains. The simulated environments are based on the Great Smoky Mountains landscapes studied by Whittaker. We focused on the consequences of two contrasting disturbance regimes' fire... Contact Author: clafon@geog.tamu.edu

Author(s): LiBo, LiBin and Yang Hongze Title: Preliminary studies on the functional and structural design of forest fire helmet Source: Advanced Materials Research 228-229: 605-609 Year: 2011 Keywords: equipment suppression management Contact Author: 9316762@qq.com

Author(s): Li Si and REN Hong-e Title: The Study of Forest Fire Color Image Segmentation Source: Key Engineering Materials (474-476): 2140-2145 Year: 2011 Keywords: modeling Abstract: Combined with the composition characteristics of forest fire image background when the forest fire occurred during different time periods of night and day, different image segmentation methods were applied to the forest fire color images of different time periods respectively... Contact Author: Inlisi1987@163.com

Author(s): Letelier, M. F. S. 1, J. Valdivia M. 1 and H. J. Leutheusser Title: AN ANALYTICAL MODEL OF THE WIND-INDUCED SPREAD OF FOREST FIRES Source: Journal of Wind Engineering and Industrial Aerodynamics 30: 215-219 Year: 1988 Keywords: modeling Abstract: This paper presents an analytical model for predicting the advance of a fire-front. The method is independent of an a priori fixed shape, and takes into account fuel composition, wind effects and, where applicable, the influence of topography. The proposed...
Author(s): Li Xiuzhen, HE Hong S, WANG Xugao, XIE Fuju, HU Yuanman and LI Yuehui  
Title: Tree Planting: How Fast Can It Accelerate Post-fire Forest Restoration? A Case Study in Northern Da Hinggan Mountains, China  
Year: 2010  
Keywords: restoration  
Abstract: In 1987, a catastrophic fire burned over 1 330 000 ha in the densely forested area of the Da Hinggan Mountains in the northeastern China. After the fire, intensive management including burned trunk harvesting and coniferous tree planting had been conducted to accelerate forest restoration. To study the long term effect of these activities on forest recovery, we used a simulation modeling approach to study long-term (300 years) forest dynamics...  
Contact Author: Landscape2001@sina.com

Author(s): Lybbert, Andrew H., Justin Taylor, Alysa DeFranco and Samuel B. St Clair  
Title: Reproductive success of wind, generalist, and specialist pollinated plant species following wildfire in desert landscapes  
Source: International Journal of Wildland Fire 26(12):  
Year: 2017  
Keywords: ecology regeneration  
Abstract: We evaluated the effect of post-fire conditions on the reproductive success of seven shrub species in the Mojave Desert with different pollination strategies. Flower and fruit productions tended to be significantly higher in post-fire conditions and pollination services appear to be maintained following wildfire.

Author(s): Landi, M. A., S. Ojeda, C. M. Di Bella, P. Salvatierra  
Title: Control plot selection for studies of post-fire dynamics: performance of non-parametric and autoregressive routines  
Source: Revista de Teledeteccion  
Year: 2017  
Keywords: modeling ecology  
Abstract: Natural fire regimes have been modified, therefore robust post-fire monitoring tools are needed to understand the post-fire recovery process. Satellites with high temporal resolution allow us to build time series of vegetation indices for monitoring post-fire...

Author(s): Lazzeri-Aerts, Rachel and Will Russell  
Title: Coast Redwood Seedling Regeneration Following Fire in a Southern Coast Redwood Forest  
Year: 2016  
Keywords: sequoia sempervirens ecology  
Note: You can link to this Open Access document on FRI's web site
Current Titles in Wildland Fire, January 2018

Author(s): Long-Fournel, Marlene, Christian Ripert, C. Piana, M. Jappiot, C. Lampin-Maillet, A. Ganteaume, D. Alexandrian and L. Rouch 
**Title:** Amélioration de la connaissance des causes d'incendie de forêt et mise en place d'une base de données géoreferencées 
**Source:** Forêt mediterranéenne 30(3): 221-230 
**Year:** 2009 
**Keywords:** cause 
**Abstract:** Dans le cadre du programme Forest Focus "identification approfondie des causes de départ d'incendie de forêt, en vue de la mise en place d'une base de données géoreferencées" (convention DGFAR FF2004-06 orientée sur le suivi continu des forêts dans le domaine des ...

Author(s): Lee, Alan T. K. and Phoebe Barnard 
**Title:** Aspects of the ecology and morphology of the protea seedeater, Crithagra leucopterus, a little-known Fynbos endemic 
**Year:** African Zoology 49(2): 295-300 
**Keywords:** wildlife australia 
**Abstract:** The protea seedeater, Crithagra leucopterus, is one of six passerine birds endemic to the Fynbos Biome, South Africa. It is the least known of these, and there is very little information on breeding and habitat use. Through nest observations and a bird ringing scheme in the eastern sections of the Fynbos, we provide updated...

Author(s): Lisa Tzu-Chi Chang, Hiep Nguyen Duc, Ningbo Jiang, Toan Trieu and Yvonne Scorgie 
**Title:** SIMULATION OF METEOROLOGY COINCIDING WITH THE 2013 NEW SOUTH WALES BUSHFIRE AIR POLLUTION EPISODE (16-18 OCTOBER) 
**Source:** CASANZ2015 Conference, Melbourne, 20-23 September 2015 
**Year:** 2015 
**Keywords:** modeling smoke 
**Abstract:** In October 2013 a series of large bushfires resulted in high ozone and fine particle pollution levels being experienced in the Sydney basin. Smoke from large bushfires in the greater Blue Mountains area... 
**Note:** You can link to this Open Access document on FRI's web site

Author(s): Louis, S 
**Title:** Gridded return values of McArthur Forest Fire Danger Index across New South Wales 
**Source:** Australian Meteorological and Oceanographic Journal 
**Year:** 2014 
**Keywords:** danger index 
**Abstract:** Bushfire represents a significant risk within the Australian environment, and providing a spatial estimate of the risk represents a challenge for producing planning guidelines. The primary method for estimating day-to-day fire weather risk within Australian fire fighting operational environments has been the McArthur Forest Fire Danger

Author(s): Logan, William 
**Title:** Bushfire catastrophe in Victoria, Australia: public record, accountability, commemoration, memorialization and heritage protection 
**Source:** National Identities, available online 2015 
**Year:** 2015 
**Keywords:** interface
disaster Abstract: In Australia, 7 February 2009 has become known as "Black Saturday" because of the bushfire catastrophe that took 173 lives and devastated communities in the central parts of the State of Victoria. The paper considers how the 2009 fires have been recorded, how the issue of accountability has... Note: You can link to this Open Access document on FRI’s web site

Author(s): Lunney, Daniel, H. W. M. Lunney and H.F. Recher Title: Bushfire and the malthusian guillotine: Survival of small mammals in a refuge in Nadgee Nature Reserve, south-eastern New South Wales Source: Pacific Conservation Biology Year: 2008 Keywords: wildlife australia Abstract: Following an intense bushfire in December 1972, small mammals were sampled from November 1973 to June 1976 on a few hectares of unburnt, grassy river flat in the Nadgee Nature Reserve, New South Wales. Hindsight shows the importance of these small unburnt patches as refuges for small mammals. A surprising proportion...

Author(s): Lammers, Kristin, Georgia Arbuckle-Keil and John Dighton Title: FT-IR study of the changes in carbohydrate chemistry of three New Jersey pine barrens leaf litters during simulated control burning Source: Soil Biology and Biochemistry, available online 2009 Year: 2009 Keywords: soils prescribed burning Abstract: Low intensity control burns are a standard fuel reduction management tool used in pine barrens ecosystems. Periodic disturbances through fire can be an important influence on the cycling of nutrients within the ecosystem. Previous studies have shown that the inorganic chemistry of leaf litter residues differs with increasing temperature. Our study compared chemical... Contact Author: klammers@camden.rutgers.edu

Author(s): Low, Tim Title: Out there: fond of fire Source: Wildlife Australia 52(3): 4-8 Year: 2015 Keywords: insects flies ecology climate fungi Abstract: Fires are so destructive that the idea of them benefiting wildlife can seem surprising, even though evidence for this is easy to find. In any woodland that goes unburnt for decades the next fire is likely to 'resurrect' missing plants that lay concealed in the soil as seeds awaiting heat or smoke to break their dormancy. The term 'fire weeds' is applied to many plants...

Author(s): Linjun Yao, M. Anne Naeth and Federico Mollard Title: Ecological role of pyrolysis by-products in seed germination of grass species Source: Ecological Engineering 108A: 78-82 Year: 2017 Keywords: regeneration Abstract: Smoke water is well known for its role in seed germination. Many pyrolysis by-products from industry may provide the same ecological function as smoke water, including
stimulation of seed germination. Germination responses were assessed for 17 grass species (native to western Canada and commonly used in land ... Contact Author: linjun@ualberta.ca

Author(s): Mitchell, K. and C. Carnes Title: The lupine and the butterfly Source: Endangered Species Bulletin 21:6-7 Year: 1996 Keywords: insects rare endangered karner blue butterfly

Author(s): Mofidi, Abbas, Iman Soltanzadeh, Yadollah Yousefi, Azar Zarrin, Mohsen Soltani, Jafar Masoompour Samakosh, Ghasem Azizi, Samuel T. K. Miller Title: Modeling the exceptional south Foehn event (Garmij) over the Alborz Mountains during the extreme forest fire of December 2005 Source: Natural Hazards, available online 2013 Year: 2013 Keywords: modeling wind weather Abstract: An exceptional southerly Foehn in the Alborz Mountains in northern Iran is investigated by using a combination of observations, reanalysis, and simulation data. Asynoptic analysis is used as well as a high-resolution numerical modeling to... Contact Author: zarrin@um.ac.ir

Author(s): Malevskii-Malevich, S. P., E. K. Molkentin, E. D. Nadezhina, A. A. Semioshina, I. A. Salle, E. I. Khlebnikova, and O. B. Title: Analysis of Changes in Fire-Hazard Conditions in the Forests in Russia in the 20th and 21st Centuries on the Basis of Climate Modeling Source: Russian Meteorology and Hydrology 32(3): 154-161 Year: 2007 Keywords: modeling Abstract: Different means to estimate changes in fire-hazard conditions in the Russian forests are analyzed in connection with climate changes. Climate data are considered as based upon standard observations and calculated characteristics obtained from the atmosphere-ocean general circulation models. Space distributions are calculated of changes in extreme conditions for fire hazard at the end of the 21st century, as compared with those at the end of the 20th century.

Author(s): Margerit, J., O. Sero-Guillaume Title: Modelling forest fires. Part II: reduction to two-dimensional models and simulation of propagation Source: International Journal of Heat and Mass Transfer 45: 1723-1737 Year: 2002 Keywords: modeling Abstract: This is the continuation of the paper named part I, where a three-dimensional model of combustion for forest fires has been derived. In this study the link between two-dimensional reaction diffusion models of propagation and threedimensional combustion modelling is examined... Contact Author: osero@mailhost.ensem.u-nancy.fr
Author(s): Morvan, D., J. L. DUPUY, B. PORTERIE and M. LARINI Title: MULTIPHASE FORMULATION APPLIED TO THE MODELING OF FIRE SPREAD THROUGH A FOREST FUEL BED Source: Proceedings of the Combustion Institute, Volume 28, 2000/pp. 2803-2809 Year: 2000 Keywords: modeling Abstract: We describe a numerical model to study the propagation of a surface fire in a fuel bed. The objective, in the long term, of these studies is to improve the mode of evaluation of the rate of spread (ROS) of a wildfire in simulations and thereby help to prevent and reduce the...

Author(s): Mendez, Vicenc and Josep E. Llebot Title: Hyperbolic reaction-diffusion equations for a forest fire model Source: Physical Review E 56(6): 6557-6563 Year: 1997 Keywords: modeling Abstract: Forest fire models have been widely studied from the context of self-organized criticality and from the ecological properties of the forest and combustion. On the other hand, reaction-diffusion equations have interesting applications in biology and physics...

Author(s): Menikoff, Ralph and M. Sam Shaw Title: Review of the Forest fire model for high explosives Source: Combustion Theory and Modelling 12(3): 569-604 Year: 2008 Keywords: modeling Abstract: Forest fire is a burn model for reactive hydro simulations that is widely used to describe both initiation and propagation of detonation waves in solid high explosives. Here we thoroughly review the assumptions of the model. In analogy with Whitham... Contact Author: rtm@lanl.gov

Author(s): Maciak, Tadeusz Title: Forest fire modelling. Part III. Fuel models. Source: BADANIA I ROZWOJ Year: n.d. Keywords: modeling Abstract: The quality of the simulation carried out a complex of forest fire development depends inter alia on the parameters entered into the system subject to the fuel combustion process. Terms of fuel combustion are usually complicated and difficult to describe the mathematical side. The fuel consists of living and dead vegetation...

Note: You can link to this Open Access document on FRI's web site

Author(s): Mogner, W. K., B. Drossel and F. Schwabl Title: Computer simulations of the forest-fire model Source: Physica A 190: 205-217 Year: 1991 Keywords: modeling Abstract: We present results of simulations of the forest-fire model proposed by P. Bak et al. containing a tree growth rate p and fire spreading to nearest neighbors. The space-time structure of the fire and the scaling properties of the forest...
Current Titles in Wildland Fire, January 2018

Author(s): Ma, Peter, Jeffrey T. Morisette, Ann Rodman, Craig McClure, Jeff Pedelty, Nate Benson, Kara Paintner, Neal Most, Asad Ullah, Weijie Cai, Monique Rocca. Joel Silverman and John L. Schnase Title: Evaluation of integrating the Invasive Species Forecasting System to support National Park Service decisions on fire management activities and invasive plant species control. Source: IEEE Publication, 1-4244-1212-9/07/ Year: 2007 Keywords: exotics Abstract: The USGS and NASA, in conjunction with Colorado State University, George Mason University and other partners, have developed the Invasive Species Forecasting System (ISFS), a flexible tool that capitalizes on NASA's remote... Note: You can link to this Open Access document on FRI's web site

Author(s): Moreira, Francisco, Filipe Catry, Tito Lopes, Miguel N. Bugalho, Francisco Rego Title: Comparing survival and size of resprouts and planted trees for post-fire forest restoration in central Portugal Source: Ecological Engineering 35: 870-873 Year: 2009 Keywords: regeneration ecology Abstract: The post-fire restoration of burned forests in the Mediterranean basin usually involves planting or direct seeding, often neglecting the use of natural regeneration through basal resprouting. This study compared the survival and size of planted and resprouted... Contact Author: fmoreira@isa.utl.pt

Author(s): Menges, Eric S. , Sarah J. H. Crate and Pedro F. Quintana-Ascencio Title: Dynamics of gaps, vegetation, and plant species with and without fire Source: American Journal of Botany 104(12): Year: 2017 Keywords: ecology exclusion Abstract: In Florida rosemary scrub, fire and increasing gap size increased species richness and many individual species occurrences, reduced local extinctions, and increased colonizations. Therefore, land management activities that encourage the creation and maintenance of large gaps will promote biodiversity in this system. Contact Author: emenges@archbold-station.org

Author(s): Molina, Juan Ramon , Roberto Moreno, Miguel Castillo and Francisco Rodriguez y Silva Title: Economic susceptibility of fire-prone landscapes in natural protected areas of the southern Andean Range Source: Science of The Total Environment, Available online 6 December 2017 Year: 2017 Keywords: economics Abstract: Large fires are the most important disturbances at landscape-level due to their ecological and socioeconomic impacts. This study aimed to develop an approach for the assessment of the socio-economic landscape susceptibility to fire. Our methodology focuses on the integration of economic components... Contact Author: jrmolina@uco.es
Current Titles in Wildland Fire, January 2018

Author(s): Mance, A. H.  Title: Observations on Buprestidae at Southern Pines, N. Carolina  Source: Entomology News, 1913  Year: 1913  Keywords: insects  Abstract: After finding only one specimen of M. notata in six years, he found 38 at a blazing pine stump.

Author(s): Moore, Ken  Title: Flaming: A new tool for wildland weed control  Source: California Exotic Pest Plant Council 1996 Symposium Proceedings  Year: 2004  Keywords: exotics  Note: You can link to this Open Access document on FRI's web site.

Author(s): Morey, Sandra C. and Kevin E. Shaffer  Title: Exotic Plant Considerations in the Wake of a Wildland Fire  Source: California Exotic Pest Plant Council 1995 Symposium Proceedings  Year: 1995  Keywords: exotics  Note: You can link to this Open Access document on FRI's web site.

Author(s): Minnich, Richard A.  Title: Fire Ecology of Exotic Grasses in the California Desert  Source: California Exotic Pest Plant Council 1995 Symposium Proceedings  Year: 1995  Keywords: exotics  Note: You can link to this Open Access document on FRI's web site.

Author(s): Mundo, Ignacio A., Andres Holz, Mauro E. Gonzalez and Juan Paritsis  Title: Fire History and Fire Regimes Shifts in Patagonian Temperate Forests  Source: Dendroecology, available online 2017, pages 211-229  Year: 2017  Keywords: paleohistory ecology  Abstract: Fire has been a frequent disturbance in Patagonia. The presence of charcoal in sedimentary records covering the last 44,000 years suggests that natural fires played a significant role in shaping the landscape before the arrival of Native Americans ca. 14,500-12,500 years ago... Contact Author: iamundo@mendoza-conicet.gob.ar.

Author(s): Mason, E. D., Firn, J., Hines, H. B., Baker, A. M.  Title: Plant diversity and structure describe the presence of a new, threatened Australian marsupial within its highly restricted, post-fire habitat  Source: PLoS ONE 12(8): e0182319. https://doi.org/10.1371/journal.pone.0182319  Year: 2017  Keywords: wildlife australia  Abstract: Management of critical habitat for threatened species with small ranges requires location-specific, fine-scale survey data. The silver-headed antechinus (Antechinus argentus) is known from only two isolated, fire-prone locations. At least one of these populations, at Koolambo National Park in central-eastern Queensland, Australia, possesses a very small range. Here, we present detailed vegetation species diversity and structure data from three sites.
comprising the known habitat... **Note:** You can link to this Open Access document on FRI's web site **Contact Author:** Eugene.mason@connect.qut.edu.au

**Author(s):** Mallol, Carolina and Aureade Henry **Title:** Ethnoarchaeology of Paleolithic Fire Methodological Considerations **Source:** Current Anthropology 58(16): S217-S229 **Year:** 2017 **Keywords:** paleohistory **Abstract:** Most of the ethnoarchaeological literature on hearths is scattered within general works that target many different aspects of foraging or hunter-gatherer societies. Although these works are a good source of ideas and clues for the interpretation of macroscopically observable features of Paleolithic... **Contact Author:** cmallol@ull.es

**Author(s):** Michaels, K. F. **Title:** Using staphylinid and tenebrionid beetles as indicators of sustainable landscape management in Australia: A review **Source:** Australian Journal of Experimental Agriculture 47(4): 435-449 **Year:** 2007 **Abstract:** The review examines a range of global literature concerning the beetle families Staphylinidae and Tenebrionidae, to evaluate their potential as indicators of sustainable landscape management in the Australian context. Both beetle families are diverse, widespread, easily collected and functionally important in a wide range of habitats in Australia. Both families are responsive to changes in environmental conditions, although the nature of the response depends on the environmental condition and often on the individual species. The response of staphylinids and tenebrionids to environmental change has reflected that of other invertebrate species or groups in some instances. Sustainability indicators need to be linked to management objectives and land managers need to be involved in the indicator selection process. Sampling, identification and assessment methods designed to match land managers' capabilities should result in an increase in the use of staphylinids and tenebrionids as sustainability indicators.

**Author(s):** Molla, Ibrahim and Emiliya Velizarova **Title:** Investigation of post-fire natural regeneration in forest plantations of Pinus sylvestris and Larix decidua on the Northern slopes of Rila mountain **Source:** J. Biosci. Biotechnol. 2017, SE/ONLINE: 89-95 **Year:** 2016 **Keywords:** regeneration silviculture plantations **Abstract:** Wildfires alter both the vegetation and the soil properties, thus changing the conditions of their regeneration. Each year, forest fires impact significant areas within the lower forest zone, where the coniferous plantations, especially Scots pine plantations are deteriorated. The natural forest recovery processes in fire-affected areas are still insufficiently studied in Bulgaria... **Contact Author:** mollata@abv.bg
Author(s): Morley, C.  Title: True smoke flies  Source: Transactions of the Suffolk Naturalists' Society 1: 78  Year: 1938  Keywords: insects

Author(s): Marsh, Jessica  Title: The fire ecology of spiders: investigating the effects of fire on spiders at the individual and community level  Source: Ph. D. Dissertation, Flinders University, Adelaide, South Australia, 209 pages  Year: 2017  Keywords: insects spiders  Note: You can link to this Open Access document on FRI's web site 112946

Author(s): N'Dri, A. B., J. Gignoux, S. Konate, A. Dembele and D. Aidara  Title: Origin of trunk damage in West African savanna trees: The interaction of fire and termites  Source: Journal of Tropical Ecology 27: 269-278  Year: 2011  Keywords: insects termites  Abstract: Twomain types of hollow tree are frequently found in savannas: Trees with external splits (externally damaged trees), and trees with no or little visible external damage, but with their entire core removed (internally damaged or "piped" trees). As this may affect trunk mechanical resistance and tree survivorship...  Contact Author: gitadib@yahoo.fr

Author(s): Niazi, Muaz A. Qasim Siddique, Amir Hussain and Mario Kolberg  Title: Verification and Validation Of An Agent-Based Forest Fire Simulation Model  Source: Unknown publication, 8 pages  Year: n. d.  Keywords: modeling  Abstract: In this paper, we present the verification and validation of an agent-based model of forest fires. We use a combination of a Virtual Overlay Multi-Agent System (VOMAS) validation scheme with Fire Weather...  Contact Author: man@cs.stir.ac.uk

Author(s): Noestheden, Matthew, Eric G Dennis, and Wesley Zandberg  Title: Quantitating Volatile Phenols in Cabernet Franc Berries and Wine after On- Vine Exposure to Smoke from a Simulated Forest Fire  Source: Journal of Agricultural and Food Chemistry, available online 2017  Year: 2017  Keywords: Agriculture grapes  Abstract: Smoke-taint is a wine defect linked to organoleptic volatile phenols (VPs) in Vitis vinifera L. berries that have been exposed to smoke from wildland fires. Herein, the levels of smoke-taint-associated VPs are reported in Cabernet Franc berries from veraison to commercial maturity and...

Author(s): Nabatte, P. and K. Nyombi  Title: Effect of Pine Plantation Surface fires on Soil Chemical Properties in Uganda  Source: Research Journal of Agriculture and Forestry Sciences 1(7): 10-14  Year: 2013  Keywords: plantations silviculture soils
Abstract: Population growth has increased demand for forest products, but supplies from natural forests have reduced due to degradation. Tree plantations have been established. However, plantation forestry in Uganda is greatly affected by the recurrent fires. Few studies on impact of fires on soil chemical properties have been done in Uganda. Research was carried out in Hoima District at Corewoods Limited to, i.e. compare soil pH in burnt...

Author(s): O'Connell, A. M., T. S. Grove and G. M. DIMMOCK
Title: The effects of fire intensity on nutrient cycling in jarrah forest
Source: Austral Ecology
Year: 2006
Keywords: soils nutrients
Abstract: The effects of high intensity fire on the cycling of nutrients in litter and canopy through fall were studied in pole stand jarrah (E. marginata Bonn ex Sm.) forest near Dwellingup, south-western Australia. In the first year following burning, twice as much litter fell on the burnt site as on an unburnt control site. Concentrations of ...

Author(s): Osmont, Antoine, Khaled Chetehouna, Nabiha Chaumeix, Nathan J. DeYonker, Laurent Catoire
Title: Thermodynamic data of known volatile organic compounds (VOCs) in Rosmarinus officinalis: Implications for forest fire modeling
Source: Computational and Theoretical Chemistry 1073: 27-33
Year: 2015
Keywords: modeling
Abstract: Various volatile organic compounds (VOCs) are known to form in forest fires. They may also be formed in oxidation and pyrolysis of biomass. Prior to the building of detailed chemical kinetic models for biomass combustion, thermodynamic data of species...

Author(s): O'Connell, A. M., T. S. Grove and G. M. DIMMOCK
Title: The effects of fire intensity on nutrient cycling in jarrah forest
Source: Austral Ecology
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Abstract: The effects of high intensity fire on the cycling of nutrients in litter and canopy through fall were studied in pole stand jarrah (E. marginata Bonn ex Sm.) forest near Dwellingup, south-western Australia. In the first year following burning, twice as much litter fell on the burnt site as on an unburnt control site. Concentrations of ...

Author(s): Oumar, Zakariyyaa
Title: Fire scar mapping for disaster response in KwaZulu-Natal South Africa using Landsat 8 imagery
Abstract: This study assessed the potential of the new Landsat 8 multispectral imagery in rapidly mapping fire scars to aid disaster management response teams in emergency efforts. Maximum likelihood and iso cluster algorithms where used to classify burnt and unburnt areas in KwaZulu-Natal, South Africa. The Landsat 8 sensor successfully classified burnt and unburnt
areas with overall accuracies ranging from Contact Author: 
Zak.Oumar@kzndard.gov.za

**Author(s):** Pak Kin Chan and Laurence Packer **Title:** Assessment of Potential Karner Blue Butterfly (Lycaeides melissa samuelis) (Family: Lycanidae) Reintroduction Sites in Ontario, Canada **Source:** Restoration Ecology 14(4): 645-652 **Year:** 2006 **Keywords:** insects rare endangered butterfly **Abstract:** "Habitat degradation due to fire suppression (Mitchell and Carnes 1996, Smallidge et al. 1996), which allows succession to continue closing the canopy, converting savannas into forests (Curtis 1959, Drew 1973, Nuzzo 1986, Bond and van Wilgen 1996), also contributed to its decline." Contact Author: pakkinchan@alumni.yorku.ca

**Author(s):** Paynter, Quentin **Title:** Revegetation of a wetland following control of the invasive woody weed, Mimosa pigra, in the Northern Territory, Australia **Source:** ECOLOGICAL MANAGEMENT and RESTORATION 5(3): 191-198 **Year:** 2004 **Keywords:** exotics **Abstract:** Methods for floodplain revegetation using native species were investigated, following clearance of the invasive shrub Mimosa pigra L. (Mimosaceae) in the Northern Territory of Australia. Prolific revegetation occurred naturally and several species were identified that have potential for revegetation at sites where... Contact Author: PaynterQ@landcareresearch.co.nz

**Author(s):** Prasad, Narasimha, Rajkumar Gatadi Bandi and Buddi Padmaja **Title:** Monitoring and Extracting Abnormalities in Land Surface Temperature Images for Automatic Identification of Forest Fires **Source:** 2013 European Modelling Symposium **Year:** 2013 **Keywords:** remote sensing detection **Abstract:** Forest fires have a detrimental impact on economy and environment. The rapid distribution of the fire could cause many causalities and a lot of effort is required to control. To overcome this problem it is highly important... Contact Author: lvnprasad@yahoo.com

**Author(s):** Prasad, V. KRISHNA, YOGESH KANT AND K. V. S. BADARINAFH **Title:** Studies on Forest Fires Using DMSP OLS Data **Source:** Journal of the Indian Society of Remote Sensing 27(3): **Year:** 1999 **Keywords:** modeling **Abstract:** Studies related to forest fires are important in the context of trace gas emissions associated with such events. Much of the polar orbiting satellites due to their repetitive cycle have limitation in observing such events and in tropics due to cloud...

**Author(s):** Pastor, Elsa, Eulalia Planas, Luis Mario Ribeiro, Domingos Xavier Viegas **Title:** Modelling the effectiveness of long-term forest fire retardants **Source:** Forest
Current Titles in Wildland Fire, January 2018

Ecology and Management 234S: S235 Year: 2006 Keywords: modeling Contact Author: elsa.pastor@upc.edu

Author(s): Patzlaff, H. and S. Trimper Title: Analytical approach to the forest-fire model Source: Physics Letters A189: 187-192 Year: 1994 Keywords: modeling

Author(s): Pastor-Satorras, Romualdo and Alessandro Vespignani Title: Corrections to scaling in the forest-fire model Source: Physical Review E 61(5): 4854-4859 Year: 2000 Keywords: modeling Abstract: We present a systematic study of corrections to scaling in the self-organized critical forest-fire model. The analysis of the steady-state condition for the density of trees allows us to pinpoint the presence of these corrections, which take the form of subdominant exponents...

Author(s): Pakkala, TIMO, JARI KOUKI, MARKUS PIHA and JUHA TIAINEN Title: Phloem sap in fire-damaged Scots pine trees provides instant foraging opportunities for Three-toed Woodpeckers Picoides tridactylus Source: ORNIS SVECICA 27: 144-149, Year: 2017 Keywords: damage wildlife woodpeckers birds Abstract: Three-toed Woodpeckers Picoides tridactylus are known to use phloem sap of conifer trees as a food resource mostly in springtime. A local pair instantly began to forage sap of Scots pine Pinus sylvestris trees that... Contact Author: Timo.pakkala@hotmail.fi

Author(s): Pandey, Anita, Shivaji Chaudhry, Avinash Sharma, Vipin Singh Choudhary, Mukesh Kumar Malviya, Swati Chamoli, K. Rinu, Pankaj Trivedi, Lok Man S. Palni Title: Recovery of Bacillus and Pseudomonas spp. from the "Fired Plots" Under Shifting Cultivation in Northeast India Source: Curr Microbiol (2011) 62:273-280 Year: 2011 Keywords: bacteria soils slash-and-burn tropics Abstract: Soil samples, collected after the fire operations at agricultural sites under shifting cultivation in northeast India, were subjected to physico-chemical and microbial analysis. The fire affected various physico-chemical properties... Contact Author: Anita@gbpihed.nic.in

Author(s): Pastor, E., I. Oliveras, E. Urquiaga-Flores, J. A. Quintano-Loayza, M. I. Manta and E. Planas Title: A new method for performing smouldering combustion field experiments in peatlands and rich-organic soils Source: International Journal of Wildland Fire 26(12): Year: 2017 Keywords: behavior smoldering peat Abstract: We present a method for conducting smouldering experiments in field conditions by which data on fire behaviour and ecological effects of ground fires are obtained
at real scale. The methodology is tested at the forest-grassland treeline of the Peruvian Andes. We observe smouldering during 9 h at 15-cm depth.

**Author(s):** Panzer, R. and M. DeMauro **Title:** Fire, insects studied on a hill prairie remnant **Source:** Restoration and Management Nores 1(4):17-18 **Year:** 1983

**Keywords:** insects **Contact Author:** rpanzer@earthlink.net

**Author(s):** Poirazidis, K., E. Chaideftou, A. Martinis, V. Bontzorlos, P. Galani, D. Kalivas **Title:** Temporal shifts in floristic and avian diversity in Mediterranean pine forest ecosystems under different fire pressure: The island of Zakynthos as a case study **Source:** Ann. For. Res. 61(1): **Year:** 2018

**Keywords:** ecology **Abstract:** We evaluated how fire impacts the ecological coherence of Aleppo pine forests and their biodiversity over a 40-year period. The study area forms part of an insular ecosystem of Zakynthos Island (Zante) in western Greece, which forms part of the Ionian Islands. **Contact Author:** eugeniachd@gmail.com

**Author(s):** Pellegrini, A. F. A., Ahlstrom, A., Hobbie, S. E., Reich, P. B., Nieradzik, L. P., Staver, A. C., Scharenbroch, B. C., Jumpponen, A., Anderegg, W. R. L., Randerson, J. T., Jackson, R. B. **Title:** Fire frequency drives decadal changes in soil carbon and nitrogen and ecosystem productivity **Source:** Nature. 2017 Dec 11. doi: 10.1038/nature24668. [Epub ahead of print] **Year:** 2017

**Keywords:** carbon frequency **Abstract:** Fire frequency is changing globally and is projected to affect the global carbon cycle and climate. However, uncertainty about how ecosystems respond to decadal changes in fire frequency makes it difficult to predict the effects of altered fire regimes on the carbon cycle, for instance, we do not fully understand the long-term effects of fire on soil carbon and nutrient storage, or whether fire-driven nutrient losses limit plant productivity. Here we analyse data from... **Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Pinto, Federica, Pierluigi Bombi and Marco A. Bologna **Title:** Effects of fire and forest restoration on two sympatric species of Lacertidae (Reptilia) in a Mediterranean ecosystem of Central Italy **Source:** Revue d Ecologie 61: 195-200 **Year:** 2006

**Keywords:** restoration **Abstract:** Effets des feux et de la restauration forestiere sur deux especes sympatriques de Lacertides (Reptiles) dans un ecosysteme mediterraneen de l'Italie centrale. Les effets d'un incendie et de la restauration forestiere qui a suivi ont ete etudies sur deux especes de lezards du genre ...
Author(s): Pruetz, Jill D. and Thomas C. LaDuke Title: Brief Communication: Reaction to Fire by Savanna Chimpanzees (Pan troglodytes verus) at Fongoli, Senegal: Conceptualization of Fire Behavior and the Case for a Chimpanzee Model Source: American Journal of Physical Anthropology, available online 2009 Year: 2009 Keywords: wildlife chimpanzees Abstract: The use and control of fire are uniquely human traits thought to have come about fairly late in the evolution of our lineage, and they are hypothesized to correlate with an increase in intellectual complexity. Given the relatively sophisticated cognitive… Contact Author: pruetz@iastate.edu

Author(s): Pulido, Maria T. and Javier Caballero Title: The impact of shifting agriculture on the availability of non-timber forest products: The example of Sabal yapa in the Maya lowlands of Mexico Source: Forest Ecology and Management 222 (2006) 399-409 Year: 2006 Keywords: slash-and-burn tropics Abstract: Understanding the effect of agriculture on the availability of non-timber forest products (NTFP) is currently relevant. Many landscapes are dominated by agricultural fields and fallow lands, so we should understand the status of NTFP in these landscapes. We studied the availability of leaves of xa’an palm trees (Sabal yapa Wright ex Beccari) in the shifting cultivation systems among the Yucatec… Contact Author: mpulido@ibiologia.unam.mx

XAuthor(s): Qinggaozi Zhu, Xihua Yang and Qiang Yu Title: Climate change impact on bushfire risk in New South Wales, Australia Source: IGARSS 2015 - 2015 IEEE International Geoscience and Remote Sensing Symposium Year: 2015 Keywords: climate

Author(s): Racke, Kenneth D. Title: Cranberry Pest Management and Karner Blue Butterfly Protection: A Wisconsin Case Study Source: Chapter 8, In Pesticide Regulation and the Endangered Species Act, Racke, K., et al., ACS Symposium Series, American Chemical Society: Washington, DC, 2012 Year: 2012 Keywords: insects rare endangered karner blue butterfly Abstract: KRacke@dow.com

Author(s): Rhoades, Charles C., Michael A. Battaglia and Robert M. Hubbard Title: Management options for reducing short and long-term fire risk in mountain pine beetle-infested forests Source: Final Report to Joint Fire Science Program, JFSP Project Number 09-1-06-16, 5 pages Year: 2013 Keywords: insects Abstract: Seedling colonization in both untreated and salvage logged beetle killed stands is abundant. Three-quarters of all new seedlings colonizing harvested areas were lodgepole pine, there were 10-times more new pine seedlings in the cut areas
compared to untreated stands. Aspen sprouts were... **Contact Author:** crhoades@fs.fed.us  

**Author(s):** Ruchkin, Vladimir, Aleksandr Kolesenkov, Boris Kostrov, Edaterina Ruchkina  

**Title:** Algorithms of Fire seat Detection, Modeling Their Dynamics and Observation of Forest Fires via Communication Technologies  

**Source:** 4th Mediterranean Conference on Embedded Computing MECO - 2015 Budva, Montenegro  

**Year:** 2015  

**Keywords:** modeling  

**Abstract:** The work analyzes technical and experimental research in the field of fire monitoring. The authors suggest the algorithms of fire detection, the identification of the seats of fire, the modeling, the determination of the spreading and the following of the fire by satellite images processing. The... **Contact Author:** v.ruchkin @rsu.edu.ru

**Author(s):** Ruoyun Niu and Panmao Zhai  

**Title:** Study on forest fire danger over Northern China during the recent 50 years  

**Source:** Climatic Change 111:723-736  

**Year:** 2012  

**Keywords:** danger statistics  

**Abstract:** Daily meteorological data at 263 stations in northern China from 1956 to 2005 were used to calculate various forest fire danger weather (FFDW) indices, such as Nesterov Index (NI), Modified Nesterov Index (MNI), Keetch-Byram... **Contact Author:** niury@cma.gov.cn

**Author(s):** Rodriguez y Silva, Francisco  

**Title:** "SINAMI", a national model to evaluate the economic aspect of the forest fire management programs in Mediterranean ecosystems  

**Source:** Forest Ecology and Management 234S (2006) S216  

**Year:** 2006  

**Keywords:** economics

**Author(s):** Roswintiarti, ORBITA and SETHU RAMAN  

**Title:** Three-dimensional Simulations of the Mean Air Transport During the 1997 Forest Fires in Kalimantan, Indonesia Using a Mesoscale Numerical Model  

**Source:** Pure appl. geophys. 160: 429-438  

**Year:** 2003  

**Keywords:** modeling smoke tropics  

**Abstract:** This paper describes the meteorological processes responsible for the mean transport of air pollutants during the ENSO-related forest fires in Kalimantan, Indonesia from 00 UTC 21 September to 00 UTC 25 September, 1997. The Fifth Generation of the Pennsylvania State University...

**Author(s):** Ray, S. K. and R. P. Singh  

**Title:** Effects of water mist on open fire - a model study  

**Source:** Mining Technology 114: 13 pages  

**Year:** 2005  

**Keywords:** modeling  

**Abstract:** Outbreak of open fire in coal mines is one of the major causes of disaster involving loss of life, hindrance in coal production and loss of machinery
involved in coal winning operations. Until recently, no substantive work has been carried out in India to... **Contact Author:** rpsingh_cmri@yahoo.co.in

**Author(s):** Remmel, Tarmo K. and Ajith H. Perera **Title:** Accuracy of discontinuous binary surfaces: A case study using boreal forest fires **Source:** Int. J. Geographical Information Science 16(3): 287-298 **Year:** 2002 **Keywords:** modeling **Abstract:** Confidence in the conclusions of GIS and remote sensing analyses depends on our ability to specify their accuracy. The square error matrix, which is commonly used for accuracy assessment when the database contains... **Contact Author:** Tarmoremmel@hotmail.com

**Author(s):** Rhodes, C. J. and R. M. ANDERSON **Title:** Forest-fire as a Model for the Dynamics of Disease Epidemics **Source:** J. Franklin Institute 335B(2): 199-211 **Year:** 1998 **Keywords:** modeling **Abstract:** We review recent studies on the modelling of epidemic processes using individuul-based lattice epidemic models. Originally introduced to investigate the emergence of spatio-temporal organisation in non-linear dynamicalsystems they ure usually termed... **Contact Author:** chris.rhodes@zoology.oxford.ac.uk

**Author(s):** Russo, Lucia , Konstantinos G. Spiliotis, Francesco Giannino, Constantinos I. Siettos and Stefano Mazzoleni **Title:** Mapping regions with different dynamics in a forest/grassland model in presence of fire **Source:** AIP Conference Proceedings 1906, 100010 (2017), https://doi.org/10.1063/1.5012380 **Year:** 2017 **Keywords:** modeling grasslands **Abstract:** We analyzed the dynamics of a forest-grassland ecosystem in the parameter planes to map the regions with different dynamics in a systematic way. The model consists of a couple of nonlinear ordinary differential equations that describe the evolution of the forest densities... **Note:** You can link to this Open Access document on FRI's web site **Contact Author:** lucia.russo@irc.cnr.it

**Author(s):** Ribeiro, N. S., A. Cangela, A. Chauque, R. R. Bandeira and A. I. Ribeiro-Barros **Title:** Characterisation of spatial and temporal distribution of the fire regime in Niassa National Reserve, northern Mozambique **Source:** International Journal of Wildland Fire 26(12): **Year:** 2017 **Keywords:** statistics **Abstract:** This study characterised the fire regime of the Niassa National Reserve using remote sensing. Fire frequency was inversely related to fire intensity but was associated with burning density, revealing pyric-herbivory. Late dry-season fires were relevant in the north-central and east sectors, which were identified as priority areas for fire management.
Author(s): Refsland, T. K. and J. M. Fraterrigo Title: Both canopy and understory traits act as response-effect traits in fire-managed forests Source: Ecosphere 8(12):e02036. 10.1002/ecs2.2036 Year: 2017 Keywords: ecology Abstract: Community-level shifts in the distributions of plant functional traits associated with environmental change are expected to influence ecosystem functioning. However, few studies have identified traits that both respond to environmental change and affect ecosystem properties, thus limiting potential to scale the effects of environmental change through the community ... Note: You can link to this Open Access document on FRI's web site Contact Author: refslan2@illinois.edu

Author(s): Rusmore, John T. Title: Use of Fire and Cutting to Control Yellow Starthistle (Preliminary Results of a Yellow Starthistle Control Experiment) Source: California Exotic Pest Plant Council 1995 Symposium Proceedings Year: 1995 Keywords: exotics Note: You can link to this Open Access document on FRI’s web site

Author(s): Ratnam, Charishma and Danielle Drozdzewski Title: Assembling attachments to homes under bushfire risk Source: Geographical Research Year: 2017 Keywords: interface structures Abstract: This research, conducted in the Blue Mountains, New South Wales, Australia, explores attachment to the home in the context of bushfire risk. The paper builds on existing research that has focused both on the home and on emplaced and mobile methods therein and seeks to understand the range of human and non-human

Author(s): Ratnam, Charishma, Danielle Drozdzewski and Rosalie S. Chapple Title: Can place attachment mediate perceptions of bushfire risk- A case study of the Blue Mountains, NSW Source: Australian Journal of Emergency Management Year: 2016 Keywords: psychology interface sociology Abstract: Place attachment is conceptualised as the bonding of people to a place that influences their perceptions of those places. This research focused on verbal and visual experiences of residents' homes and surrounds to explore whether place attachment in a bushfire-prone community mediated perceptions of risk. The analysis

Author(s): Robinson, Mark Title: Bushfires, 2003. A rural GP’s perspective Source: Australian family physician Year: 2004 Keywords: management Abstract: Extensive bushfires in January and February of 2003 had a major impact on many communities in northeast Victoria, East Gippsland, southern New South Wales and
Canberra. These fires eventually engulfed an area roughly equivalent to the entire area of Germany. This article describes the impact of the fires and the role of the...

**Author(s):** Rachmawati, Ramya, Melih Ozlen, Karin J. Reinke and John W. Hearne  
**Title:** A model for solving the prescribed burn planning problem  
**Source:** Springer Plus, open access journal, 21 pages  
**Year:** 2005  
**Keywords:** prescribed burning  
**Abstract:** The increasing frequency of destructive wildfires, with a consequent loss of life and property, has led to fire and land management agencies initiating extensive fuel management programs. This involves long-term planning of fuel reduction activities such as prescribed burning or mechanical clearing. In this paper, we propose a mixed integer programming (MIP) model that...  
**Note:** You can link to this Open Access document on FRI's web site  
**Contact Author:** rachmawati@rmit.edu.au

**Author(s):** Raizada, PURNIMA and AKHILESH S. RAGHUBANSHI  
**Title:** Seed germination behaviour of Lantana camara in response to smoke  
**Source:** Tropical Ecology 51(2S): 347-352  
**Year:** 2010  
**Keywords:** regeneration smoke  
**Abstract:** Lantana camara, a native of the New World tropics, has invaded tropical and subtropical ecosystems across the world. Its growth is stimulated by disturbances such as mild fire, cutting, pruning, and grazing. We investigated the effects of smoke...  
**Contact Author:** purnimaraizada@gmail.com

**Author(s):** Renninger, Heidi J., Nicholas Carlo, Kenneth L. Clark and Karina V. R. Schafer  
**Title:** Modeling respiration from snags and coarse woody debris before and after an invasive gypsy moth disturbance  
**Source:** J. Geophys. Res. Biogeosci. 119: 630-644  
**Year:** 2014  
**Keywords:** insects  
**Abstract:** Although snags and coarse woody debris are a small component of ecosystem respiration, disturbances can significantly increase the mass and respiration from these carbon (C) pools. The objectives of this study were to (1) measure respiration rates of snags and coarse woody debris throughout the year in a forest previously defoliated by gypsy moths, (2) develop models for dead stem respiration rates, (3) model stand-level respiration rates of dead stems using forest inventory...  
**Contact Author:** hrenninger@gmail.com

**Author(s):** Smallidge, P. J., D. J. Leopold, and C. M. Allen  
**Title:** Community characteristics and vegetation management of Karner blue (Lycaeides melissa samuelis) habitats on right-of-way in east-central New York, USA  
**Source:** Journal of Applied Ecology 33:1405-1419  
**Year:** 1996  
**Keywords:** insects rare endangered
Current Titles in Wildland Fire, January 2018

Karner blue butterfly Note: You can link to this Open Access document on FRI's web site

Author(s): Sang Pak and Tomohisa Hayakawa Title: Forest Fire Modeling Using Cellular Automata and Percolation Threshold Analysis Source: 2011 American Control Conference on O'Farrell Street, San Francisco, CA, USA, June 29 - July 01, 2011 Year: 2011 Keywords: modeling Abstract: Multi-state probabilistic cellular automata are developed for forest fire modeling. We propose a forest fire dynamics model considering intensities of fires as multiple states and having the probability that fire spread depends on the states... Contact Author: hayakawa@mei.titech.ac.jp

Author(s): Satoh, Kohyu, Kunio Kuwahara and K. T. Yang Title: A Numerical Study of Forest Fire Progression and Fire Suppression by Aerial Fire Fighting Source: Proceedings of IMECE04 2004 ASME International Mechanical Engineering Congress and Exposition November 13-20, 2004, Anaheim, California USA Year: 2004 Keywords: modeling Abstract: Forest fires are of common occurrence all over the world, which cause severe damages to valuable natural resources and human lives. In the recent California Fire, which burned 300,000 hectares of land, the disaster danger could reasonably be predicted, but early control of fires...

Author(s): Schmerbeck, J., A. Kohli and K. Seeland Title: Ecosystem services and forest fires in India - Context and policy implications from a case study in Andhra Pradesh Source: Forest Policy and Economics 50: 337-346 Year: 2015 Keywords: modeling india Abstract: Tropical landscapes are often burned by forest dwellers to obtain certain ecosystem services (ES). We analyze the importance of ES derived with the help of fires from tropical dry forest in Andhra Pradesh, India, and conclude that regular burning of the forest is crucial for local livelihoods. We...

Contact Author: jschmerbeck.daad@teriuniversity.ac.in

Author(s): Statheropoulos, M. and S. Karma Title: Complexity and origin of the smoke components as measured near the flame-front of a real forest fire incident: A case study Source: J. Anal. Appl. Pyrolysis 78: 430-437 Year: 2007 Keywords: modeling smoke Abstract: A case study of a real forest fire incident is presented, where field measurements held out near the flame-front in smoky, hostile conditions. Permanent gases, such as CO, CO2, NH3, volatile organic compounds (VOCs) and particulate matter (PM2.5, PM10) were monitored. Complexity and possible origin of some of the forest fire smoke components are examined and discussed... Contact Author: skarma@central.ntua.gr

60
Author(s): Szajewska, Anna  Title: APPLYING THE MATHEMATICAL MODEL OF FOREST FIRE IN THE SOFTWARE CREATED FOR SUPPORTING THE DECISIONS IN EXTINGUISHING ACTIONS  Source: BADANIA I ROZWOJ, 9 pages  Year: n. d.
Keywords: modeling  Abstract: The paper presents the assumptions for the computer simulation of a forest fire in accordance with digital topographic map of forests and short-term weather forecast. To conduct the simulation, a software has been created. The software includes deterministic mathematical model of a forest fire...

Author(s): Surkova, G. V., D. V. Blinov, A. A. Kirsanov, A. P. Revokatova, and G. S. Rivin  Title: Simulation of Spread of Air Pollution Plumes from Forest Fires with the Use of COSMO_Ru7_ART Chemical_Transport Model  Source: Atmospheric and Oceanic Optics, 2014, Vol. 27, No. 3, pp. 268-274  Year: 2014  Keywords: smoke modeling  Abstract:A method for calculating the emission of pollutants from forest fires to the atmosphere is incorporated in COSMO_Ru7_ART calculation complex and makes it possible to correct the input data in the simulation of the spread of the pollution plume from fire. The...  Contact Author: galina_surkova@mail.ru

Author(s): Sero-Guillaume, O. and J. Margerit  Title: Modelling forest fires. Part I: A complete set of equations derived by extended irreversible thermodynamics  Source: International Journal of Heat and Mass Transfer 45: 1705-1722  Year: 2002  Keywords: modeling  Abstract: In this study we derive a three-dimensional forest fire combustion model. The forest is modelled as a diphasic medium composed of a gaseous and a porous vegetal pyrolysis phase. A formal averaging method and a thermodynamic closure by use of extended irreversible thermodynamics are...
Contact Author: osero@mailhost.ensem.u-nancy.fr

Author(s): Simeoni, ALBERT, PAUL-ANTOINE SANTONI, MICHEL LARINI and JACQUES- HENRI BALBI  Title: Proposal for Theoretical Improvement of Semi-Physical Forest Fire Spread Models Thanks to a Multiphase Approach: Application to a Fire Spread Model Across a Fuel Bed  Source: Combust. Sci. and Tech 162: 59-83  Year: 2001  Keywords: modeling  Abstract: This paper is devoted to the improvement of semi-physical fire spread models. In order to improve them, a theoretical approach based on the multiphase concept was carried out. The multiphase approach which considers the finest physical phenomena...
Contact Author: simeoni@univ-corse.fr
Author(s): Salvati, Luca  Title: Profiling forest fires along the urban gradient: A Mediterranean case study  Source: Urban Ecosystems, available online 2014  Year: 2014  Keywords: interface modeling  Abstract: The present paper assesses the spatial distribution and basic characteristics of 2,692 forest fires occurred along the urban gradient in a Mediterranean expanding region (Athens, Greece) during twelve years (2000-2011). Using descriptive, correlation and multivariate statistics, the study demonstrates that fringe fires...  Contact Author: bayes00@yahoo.it

Author(s): Sanjeeb Bhoi, John J. Qu, and Swarvanu Dasgupta  Title: Multi-sensor study of aerosols from 2007 Okefenokee forest fire  Source: Journal of Applied Remote Sensing, Vol. 3, 031501  Year: 2009  Keywords: smoke wetlands remote sensing  Abstract: This paper uses multi-sensor remote sensing data to study the type and spatiotemporal variability of aerosols emitted from forest fires. The study is based on the Okefenokee Swamp fire that ravaged parts of Georgia and Florida between May and June of 2007. Moderate Resolution Imaging Spectroradiometer (MODIS) data is...

Author(s): Sero-Guillaume, O., S. Ramezani, J. Margerit, D. Calogine  Title: On large scale forest fires propagation models  Source: International Journal of Thermal Sciences 47: 680-694  Year: 2008  Keywords: modeling  Abstract: The question of the modeling of forest fires at large scales is addressed. Empirical models are compared and it is shown that Rothermel's model describing the rate of spread of a straight front is included in the envelope model which in turn is included in a Hamilton-Jacobi equation description. This result shows that the preceding models...  Contact Author: olivier.sero-guillaume@ensem.inpl-nancy.fr

Author(s): Shengli Huang, Robert L Crabtree, Christopher Potter and Peggy Gross  Title: Estimating the quantity and quality of coarse woody debris in Yellowstone post-fire forest ecosystem from fusion of SAR and optical data  Source: Remote Sensing of Environment  Year: 2009  Keywords: remote sensing fuel  Abstract: The Coarse Woody Debris (CWD) quantity, defined as biomass per unit area (t/ha), and the quality, defined as the proportion of standing dead logs to the total CWD quantity, greatly contribute to many ecological processes such as forest nutrient cycling, tree regeneration, wildlife habitat, fire dynamics, and carbon dynamics. However, ...

Author(s): SU Wenhua, CUI Fengtao, ZHAO Yuanjiao and CAO Jianxin  Title: Canopy seed bank and serotinous cones of Pinus yunnanensis forests  Source: Acta Ecologica Sinica  Year: 2017  Keywords: regeneration ecology  Abstract: Canopy
seed banks and serotinous adaptations are particularly prominent in fire-prone ecosystems. In this study, we recorded the number of open and closed cones in a P. yunnanensis forest, we observed the ripening year of the cones, and investigated the response of closed cones to high temperatures and forest fires. Closed ...

**Author(s):** Sharp Bowman, T. R., McMillan, B. R. and St. Clair, S. B.  **Title:** A comparison of the effects of fire on rodent abundance and diversity in the Great Basin and Mojave Deserts  **Source:** PLoS ONE 12(11): e0187740.https://doi.org/10.1371/journal.pone.0187740  **Year:** 2017  **Keywords:** wildlife rodents  **Abstract:** As invasive grasses and fire increase in frequency and extent in North American deserts, they have the potential to affect animal communities through bottom-up forces. We experimentally tested the effects of fire on rodent communities of the Great Basin and Mojave Deserts. Fire decreased the abundance, richness,,,.  **Note:** You can link to this Open Access document on FRI's web site  **Contact Author:** stclair@byu.edu

**Author(s):** Shearman, T. M., G. G. Wang, P. T. Ma and S. Guan  **Title:** Patterns of bark growth for juvenile trees of six common hardwood species in the eastern United States and the implications to fire-tolerance  **Source:** Trees, available online 2017  **Year:** 2017  **Keywords:** damage ecology  **Abstract:** Thick bark is presumed to be a trait of fire-tolerant trees that were historically subjected to frequent surface fires. To be recruited into the forest canopy, a tree must be able to survive fire and grow thick enough bark during the fire-free interval....  **Contact Author:** gwang@clemson.edu

**Author(s):** Shtober-Zisu, N., A. Brook, D. Kopel, D. Roberts, C. Ichoku and L. Wittenberg  **Title:** Fire induced rock spalls as long-term traps for ash  **Source:** CATENA 162: 88-99  **Year:** 2018  **Keywords:** geology  **Abstract:** Severe fires accelerate rock weathering by spalling and exfoliation, creating abundant peels, flakes or spalls. In the following years, these spalls serve as physical traps which accommodate fine particles of dust, ash, organic matter...  **Contact Author:** nshtober@research.haifa.ac.il

**Author(s):** Schroder, Svetlana A. (Kushch), Sandor F.Toth, Robert L.Deal, Gregory J.Ettl  **Title:** Multi-objective optimization to evaluate tradeoffs among forest ecosystem services following fire hazard reduction in the Deschutes National Forest,USA  **Source:** Ecosystem Services22(2016)328-347  **Year:** 2016  **Keywords:** fuel management  **Abstract:** Forest owners worldwide are increasingly interested in
managing forests to provide a broad suite of ecosystem services, balancing multiple objectives and evaluating management activities in terms of potential tradeoffs. We describe a multi-objective mathematical programming model to quantify tra... Contact Author: kushch@uw.edu

Author(s): Schut, Kathleen Title: Fire History and Tree Growth Responses In The Tenmile South Watershed, Helena, MT Source: Honors Thesis, Carroll College, Helena, Montana, 47 pages Year: 2015 Keywords: history Abstract: The Tenmile South watershed, southwest of Helena, Montana, is the subject of a controversial fuel reduction project initiated by the surrounding community. Historic mining activities have resulted in the accumulation of heavy metal contaminated sediments in the upper watershed. These toxic sediments ... Note: You can link to this Open Access document on FRI's web site

Author(s): Scherer, Sawyer Steven Scherer, Christel Kern, Ph.D., Anthony W. D'Amato, Brian J. Palik, Matthew B. Russell Title: Long-term pine regeneration, shrub layer dynamics and understory community composition responses to repeated prescribed fire in Pinus resinosa forests Source: Canadian Journal of Forest Research, online 2017 Year: 2017 Keywords: regeneration prescribed burning Abstract: Prescribed fire is increasingly viewed as a valuable tool for reversing ecological consequences of fire suppression within fire-adapted forests. While the use of burning treatments in northern temperate conifer forests has received considerable attention, the long-term (>10 year) effects on understory composition and dynamics have not...

Author(s): Standiford, Richard B., Yana Valachovic Title: Coast Redwood Science Symposium-2016: Past Successes and Future Directions Source: September 13-16, 2016 Sequoia Conference Center, Eureka, CA, U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station, Albany, California General Technical Report PSW-GTR-258, 457 pages Year: 2017 Keywords: sequoia sempervirens ecology Note: You can link to this Open Access document on FRI's web site

Author(s): Swezy, Michael and Dennis C. Odion Title: Fire on the Mountain: A Land Manager’s Manifesto for Broom Control Source: California Exotic Pest Plant Council 1997 Symposium Proceedings Year: 1997 Keywords: exotics Note: You can link to this Open Access document on FRI's web site
Author(s): Syphard, Alexandra D., Jon E. Keeley, Anne H. Pfaff and Ken Ferschweiler Title: Human presence diminishes the importance of climate in driving fire activity across the United States Source: Proceedings of the National Academy of Science, December 11, 2017, doi: 10.1073/pnas.1713885114 Year: 2017 Keywords: climate Abstract: Growing human and ecological costs due to increasing wildfire are an urgent concern in policy and management, particularly given projections of worsening fire conditions under climate change. Thus, understanding the relationship between climatic...

Author(s): Sewell, T., R. E. Stephens, D. Dominey-Howes, E. Bruce2 and S. Perkins-Kirkpatrick Title: Disaster declarations associated with bushfires, floods and storms in New South Wales, Australia between 2004 and 2014 Source: Scientific Reports | 6:36369 | DOI: 10.1038/srep36369 Year: 2016 Keywords: media Abstract: Australia regularly experiences disasters triggered by natural hazards and New South Wales (NSW) the most populous State is no exception. To date, no publically available spatial and temporal analyses of disaster declarations triggered by hazards (specifically... Note: You can link to this Open Access document on FRI's web site Contact Author: dale.dominey-howes@sydney.edu.au

Author(s): Stika, Hans-Peter Title: Fire and water - the dendro-ecological reconstruction of a late-glacial pine forest in Reichwalde, East-Germany Source: In: Farming in the forest: ecology and economy of fire in prehistoric agriculture, 3rd International Schontal Conference, 11-15 July, 2012, Tagungsstätte Kloster Schontal, Germany Year: 2012 Keywords: history Contact Author: hans-peter.stika@uni-hohenheim.de

Author(s): Stoeckeler, Joseph H. Title: The growth of quaking aspen as affected by soil properties and fire Source: Journal of Forestry 46:727-737 Year: 1948 Keywords: ecology

Author(s): Sinclair, Bradley J. Title: New species of Hormopeza Zetterstedt from South Africa and Tasmania (Diptera: Empididae) Source: Ann. Natal Mus. 36: 203-208 Year: 1995 Keywords: insects Abstract: The first southern hemisphere species of Honnopeza Zetterstedt, previously known only from the Holarctic Region, are described. Honnopeza natalensis sp. n. is described from Natal, South Africa, and H. hadrocerca sp. n. is described from Tasmania, Australia.

Author(s): Syphard, A. D., J. E. Keeley, and J. T. Abatzoglou Title: Trends and drivers of fire activity vary across California aridland ecosystems Source: Journal of Arid
Current Titles in Wildland Fire, January 2018

Environments 144: 110-122 Year: 2017 Keywords: ignition exotics fuel Abstract: Controlling invasive grasses and other exotic herbaceous fuels (i.e., not native woody fuels) would help to reduce both the frequency and the size of fires for these arid ecosystems... Note: You can link to this Open Access document on FRI's web site Contact Author: Asyphard@consbio.org

Author(s): Snoddy, E. L. and H. H. Tippins Title: On the ecology of a smoke fly, Microsania imperfecta Source: Ann Entomol Soc Am 61(5): 1200 Year: 1968 Keywords: insects Abstract: Microsania imperfecta (Loew) (Diptera: Platypezidae) was observed to exhibit a positive response to a stimulus of smoke. Smoke appears to affect mating behavior, serving as a mating swarm marker. Higher populations occurred during winter than in summer. Swarms of males and mating pairs were observed during October and the cool spring months.

Author(s): Schut, Kathleen M. Title: Fire history and tree growth responses in the Tenmile South Watershed, Helena, MT Source: B. S. Thesis, Carroll College, 47 pages Year: 2015 Keywords: history ecology Abstract: The Tenmile South watershed, southwest of Helena, Montana, is the subject of a controversial fuel reduction project initiated by the surrounding community. Historic mining activities have resulted in the accumulation of heavy metal contaminated sediments in the upper watershed. These toxic sediments could...

Author(s): Tihay, Virginie, Albert Simeoni, Paul-Antoine Santoni, Veronique Bertin, Laurence Bonneau, Jean-Pierre Garo and Jean-Pierre Vantelon Title: ON THE INTEREST OF STUDYING DEGRADATION GASES FOR FOREST FUEL COMBUSTION MODELING Source: Combust. Sci. and Tech., 180: 1637-1658 Year: 2008 Keywords: modeling fuel combustion Abstract: The aim of this work is to determine the influence of the degradation gases on the combustion of forest fuels and whether they have to be taken into account in numerical modeling. A laboratory experimental apparatus was designed to generate laminar, axisymmetric...
Contact Author: Tihay@univ-corse.fr

Author(s): Tomshin, O. A. and V. S. Solovyev Title: Study of Variations in Parameters of Atmospheric Aerosol due to Large_Scale Forest Fires in Central Yakutia (2002) Source: Atmospheric and Oceanic Optics 28(1): 95-99 Year: 2015 Keywords: modeling smoke Abstract: Variations in the aerosol optical depth and aerosol index caused by large scale forest fires in Central Yakutia in 2002 are studied on the basis of satellite data (NOAA, Terra, Earth Probe). The total
emissions of CO2, CO, CH4, etc. are calculated using a modeling approach...

Contact Author: otomshin@ikfia.sbras.ru

**Author(s):** Tejedor, Alejandro, Javier B. Gomez and Amalio F. Pacheco  
**Title:** Earthquake size-frequency statistics in a forest-fire model of individual faults  
**Source:** PHYSICAL REVIEW E 79, 046102 _2009_  
**Year:** 2009  
**Keywords:** modeling statistics  
**Abstract:** The earthquake size-frequency distribution of individual seismic faults commonly differs from the Gutenberg-Richter law of regional seismicity by the presence of an excess of large earthquakes. Here we present a cellular automaton of the forest-fire model type that...  
**Contact Author:** Atejedor@unizar.es

**Author(s):** Tebbens, Sarah F. and Stephen M. Burroughs  
**Title:** Forest fire burn areas in Western Canada modeled as self-similar criticality  
**Source:** Physica D 211: 221-234  
**Year:** 2005  
**Keywords:** modeling  
**Abstract:** Forest fire burn areas in the western Canadian provinces of Alberta and British Columbia have cumulative frequency-area distributions that are well described by a power law or an upper-truncated power law. The power law scaling extends over as many as five orders of magnitude and is observed for different geographical...  
**Contact Author:** sarah.tebbens@wright.edu

**Author(s):** Tasker, Elizabeth M. and Christopher R. Dickman  
**Title:** Small mammal community composition in relation to cattle grazing and associated burning in eucalypt forests of the Northern Tablelands of New South Wales  
**Source:** Pp 721-740 in the Conservation of Australia's Forest Fauna (second edition) 2004, edited by Daniel Lunney, Royal Zoological Society of New South Wales, Mosman, NSW, Australia  
**Year:** 2004  
**Keywords:** wildlife grazing agriculture  
**Abstract:** The small mammal fauna of cattle-grazed and moderately frequently-burnt forest areas was compared with that of ungrazed forest using systematic replicated live-trapping over 18 months at 12 sites in north-eastern New South Wales. Nine species...  
**Contact Author:** Liz.Tasker@npws.nsw.gov.au

**Author(s):** Tae-Sung Kwon and Jong-Kyun Park  
**Title:** Comparative study on beetle fauna between burned and unburned forest  
**Source:** Journal of the Korean Forest Society 94(4): 226-235  
**Year:** 2005  
**Keywords:** insects  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Trucchi, E., Pitzalis, M., Zapparoli, M. and Bologna, M. A.  
**Title:** Short-term effects of canopy and surface fire on centipede (Chilopoda) communities in a
Current Titles in Wildland Fire, January 2018

semi natural Mediterranean forest Source: Entomol. Fennica 20: 129-138. Year: 2009 Keywords: insects Abstract: Species composition and structure of centipede (Chilopoda) communities were studied in a sub-urban burnt forest on theMediterranean coast near Roma, Italy. The study was carried out in two sites affected by canopy fire (complete vegetation destruction), one affected by surface fire... Contact Author: emiliano.trucchi@uniroma2.it

Author(s): Thomas, J., R. BOULTON, J. LAU, S. VINE, J. O'Connor, D. INGWERSEN AND G. MAURER Title: Emergency Summit for Threatened Mallee Birds Source: In: Biodiversity Across the Borders Biodiversity in rural Landscapes, Conference, Federation University Australia, 12 June, 2015 Year: 2015 Keywords: wildlife australia Abstract: Fire is a major threat to many of these species as they require relatively long unburnt mallee. Large wildfires in 2014 burnt out 90 per cent of Bronzewing Flora and Fauna Reserve (VIC) and Billiatt Conservation Park (SA). The Bronzewing fire wiped out the "insurance" population of the Black-eared Miner and a significant population of Malleefowl... Contact Author: janelle.thomas@birdlife.org.au

Author(s): Taefi, H., R. Erfanzadeh and M. Abedi Title: Changes in Chemical Soil Characteristics in Confronting with Fire and Its Severity Source: Journal of Water and Soil 31(1): 302-311 Year: 2017 Keywords: soils Contact Author: Rezaerfanzadeh@modares.ac.ir

Author(s): Tulloch, Ayesha I. and Chris R. Dickman Title: Floristic and structural components of habitat use by the eastern pygmy-possum (Cercartetus nanus) in burnt and unburnt habitats Source: Wildlife Research 33: 627-637 Year: 2006 Keywords: wildlife australia Abstract: The eastern pygmy-possum (Cercartetus nanus) occurs broadly but patchily in south-eastern Australia. It is a small, difficult-to-trap marsupial with poorly known resource and habitat preferences. This study investigated the structural and floristic habitat resources used and selected by C. nanus in Royal National Park (which was heavily burnt by bushfire in 1994) and Heathcote National Park... Contact Author: cdickman@bio.usyd.edu.au

Author(s): Umamaheshwaran, Rajasekar, Wietske Bijker, and Alfred Stein Title: Image Mining for Modeling of Forest Fires from Meteosat Images Source: IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING 45(1): Year: 2007 Keywords: modeling Abstract: Meteosat satellites with the Spinning Enhanced Visible and Infrared Imagery (SEVIRI) sensor onboard provide remote-sensing
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images nowadays every 15 min. This paper investigates and applies image-mining methods to make... Contact Author: rajasekar07942@itc.nl

Author(s): Vittorio Loretoy, Alessandro Vespignaniz and Stefano Zapperix  Title: Renormalization scheme for forest-fire models  Source: J. Phys. A: Math. Gen. 29: 2981-3004  Year: 1996  Keywords: modeling  Abstract: We introduce a renormalization scheme for forest-fire models in order to characterize the nature of the critical state and its scale-invariant dynamics. We study one- and twodimensional models defining a characterization of the phase space that allows us to describe the evolution of the dynamics under a scale transformation...

Author(s): Victorsson, J., L. O. Wikars and S.  Title: The positive effects of prescribed burning of clear-cuts on saproxylic beetle diversity are short-lived and depend on forest-fire continuity  Source: Pages 1-26 in C. Stacks, editor. Beetles: Biodiversity, Ecology and Role in the Environment Nova Science Publishers, New York  Year: 2015  Keywords: prescribed burning insects  Abstract: Before modern forestry started, forest fire was the dominating large-scale disturbance in boreal forest. Prescribed burning of clear-cuts is increasingly used as a conservation measure but is potentially less beneficial for fire-associated species than burning of intact forest. We investigated the temporal effect of prescribed burning of clear-cuts in two regions in central Sweden... Contact Author: jonas.victorsson@slu.se

Author(s): Vamstad, Michael S. and John T. Rotenberry  Title: Effects of fire on vegetation and small mammal communities in a Mojave Desert Joshua tree woodland  Source: Journal of Arid Environments  Year: 2010  Keywords: Wildfire size and frequency are increasing in Mojave Desert Joshua tree woodlands principally due to anthropogenic factors. These habitats are generally considered to be fire intolerant and the effects from fire are a major concern for land managers. This study investigated trends of ecosystem response to fire by looking at a...

considered a temperate rainforest, a large number of fire history studies depict a forest dominated by frequent surface fire regimes. Coast redwood also has a long list of traits that allow it to persist and dominate under such a chronic fire regime... Contact Author: julianvarner@fs.fed.us Note: You can link to this Open Access document on FRI’s web site

Author(s): Viana-Soto, Alba, Inmaculada Aguado and Susana Martinez Title: Assessment of Post-Fire Vegetation Recovery Using Fire Severity and Geographical Data in the Mediterranean Region (Spain) Environments 2017, 4(4), 90, doi:10.3390/environments4040090 Year: 2017 Keywords: severity Abstract: Wildfires cause disturbances in ecosystems and generate environmental, economic, and social costs. Studies focused on vegetation regeneration in burned areas acquire interest because of the need to understand the species dynamics and to apply an adequate restoration policy. In this... Note: You can link to this Open Access document on FRI's web site Contact Author: Alba.viana@edu.uah.es

Author(s): Viana-Soto, Alba, Inmaculada Aguado and Susana Martinez Title: Assessment of Post-Fire Vegetation Recovery Using Fire Severity and Geographical Data in the Mediterranean Region (Spain) Source: Environments 2017, 4(4), 90, doi:10.3390/environments4040090 Year: 2017 Keywords: severity Abstract: Wildfires cause disturbances in ecosystems and generate environmental, economic, and social costs. Studies focused on vegetation regeneration in burned areas acquire interest because of the need to understand the species dynamics and to apply an adequate restoration policy. In this work we intend to study the variables that condition short-term regeneration (5 years) of three species...
Contact Author: Alba.viana@edu.uah.es

Author(s): Wikars, Lars-Ove Title: The Wood-Decaying Fungus Daldinia loculata (Xylariaceae) as an Indicator of Fire-Dependent Insects Source: Pages 263-268, in: Ecology of Woody Debris in Boreal Forests, Ecological Bulletins 49, Blackwell Publishing, Oxford Year: 2001 Keywords: insects Abstract: Forestry and the conservation agencies need a tool to evaluate the effects of controlled burning on fire-dependent organisms, because a major goal with this measure is to favour such species. Fire-dependent insects are difficult to monitor due to their ephemeral appearance and variable biology. Therefore it would be valuable to find some other ways of measuring the diversity of fire-dependent insects in a burned area. In central Sweden the proportion of deciduous trees infested with the ascomycete fungus Daldinia loculata is a good substitute because it correlates significantly with the number of species of fire-dependent insects found with
intensive sampling one year after fire. The correlation was weaker when the insects were caught the burning year. The fruiting bodies of D. loculata are conspicuous and persistent so the species can be easily monitored all year round and several years after the fire. Possible mechanisms for the positive correlation between fire-dependent insects and the fungus could be: 1) that both depend on the regional forest history, 2) several insect species develop on the fungus, and, 3) the formation of fruiting bodies is enhanced by insect activity.

Author(s): Wang Shuyang and SongGuoyu Title: STUDY ON RELATIONS BETWEEN HEAVY- DISASTER PERIOD OF FOREST FIRE ACTIVITY AND SUNSPOT ACTIVITY, SSTA Source: J. Northeast For. Univ. 5(4): Year: 1994 Keywords: modeling Abstract: The HDPFF (heavy-disaster-period of forest fire) takes up 1/4-1/3 of all observation years, but the loss takes up 80-90% of all. The author studied the relations between forest fire activity in Heilongjiang Province from 1950 to 1989 and activity of sunspot, SSTA (sea surface temperature abnormality) of the North Pacific Ocean...

Author(s): Wilkins, C. W. Title: A STUDY OF THE ACTION OF WILD FIRES ON REMOTE FORESTS Source: Stochastic Processes and their Applications 4 (1976) 187-202 Year: 1976 Keywords: modeling Abstract: A stochastic model is developed to describe interaction of fires and vegetation in remote forest regions to demonstrate that, given certain circumstances, fires have a dominant effect on the long term, as well as the short term, forest structure...

Author(s): Watson, Penny and E. Charles Morris Title: EFFECTS OF FIRE FREQUENCY ON VEGETATION IN WESTERN SYDNEY’S GRASSY CUMBERLAND PLAIN WOODLAND AND IMPLICATIONS FOR MANAGEMENT Source: Bushfire Conference 2006 - Brisbane, 6-9 June 2006 Life In A Fire-Prone Environment: Translating Science Into Practice Paper Year: 2006 Keywords: frequency australia Abstract: Recent studies have sought to develop an understanding of the relationship between fire regimes and plant diversity in the woodlands of Western Sydney’s Cumberland Plain. Results suggest that fire has a powerful influence on community composition and structure. A survey in a series of remnants with differing fire histories found a markedly higher abundance of Bursaria spinosa in sites where fire frequency was low... Note: You can link to this Open Access document on FRI's web site

Author(s): Wei Chen, Kazuyuki Moriya, Tetsuro Sakai, Lina Koyama and Chunxiang Cao Title: TEMPORAL AND SPATIAL MONITORING OF POST-FIRE FOREST DYNAMICS
**Current Titles in Wildland Fire, January 2018**

**USING TIME-SERIES MODIS DATA**  
**Source:** Conference paper  
**Year:** 2014  
**Keywords:** ecology remote sensing

**Author(s):** Welti, Ellen A. R. and Anthony Joern  
**Title:** Fire and grazing modulate the structure and resistance of plant-floral visitor networks in a tallgrass prairie  
**Source:** Oecologia, available online 2017  
**Year:** 2017  
**Keywords:** Agriculture grazing  
**Abstract:** Significant loss of pollinator taxa and their interactions with flowering plants has resulted in growing reductions to pollination services globally. Ecological network analysis is a useful tool for evaluating factors that alter the interaction structure and resistance of systems to species loss, but is rarely applied across multiple empirical networks...  
**Contact Author:** welti@ou.edu

**Author(s):** Weir, Jessica K.  
**Title:** Fire authorities and planners: reducing risk across diverse landscapes  
**Source:** Conference paper, 11 pages  
**Year:** 2013  
**Keywords:** planning  
**Abstract:** Bushfire risk mitigation measures have become increasingly integrated into the responsibilities held by planning professionals, and this is indicative of a broader trend of emergency management responsibilities being formally adopted by other sectors. This paper considers...  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Webber, Ruth and Kate Jones  
**Title:** Rebuilding Communities after Natural Disasters: The 2009 Bushfires in South-Eastern Australian  
**Source:** Journal of Social Service Research, DOI:10.1080/01488376.2012.754196, 1-16.  
**Year:** 2013  
**Keywords:** Australia interface  
**Abstract:** Through nonrandom purposive sampling, this article examines the ways three Catholic agencies offered bushfire recovery assistance after the 2009 bushfires in the Australian state of Victoria. Participants from Catholic welfare agencies (29), local and state government (8), international recovery agencies (2), and ...

**Author(s):** Watts, Anthony  
**Title:** Oops! Posited pine beetle to increased wildfire risk debunked by CU study  
**Source:** WUWT Blog  
**Year:** 2015  
**Keywords:** insects behavior  
**Note:** You can link to this Open Access document on FRI's web site

**Author(s):** Wouters, Mike  
**Title:** Fire in Mallee Communities  
**Source:** Proceedings of the National Malleefowl Forum 2004  
**Year:** 2004  
**Keywords:** ecology

**Author(s):** Wikars, L-O.  
**Title:** Effect of forest fire and the ecology of fire-adapted insects  
**Source:** Acta University Uppsala Comprehensive Summaries of Uppsala
Dissertations from the Faculty of Science and Technology 1997, vol. 272: p. 35

**Year:** 1997  **Keywords:** insects  **Contact Author:** lars.wilkars@gmail.com

**Author(s):** Woolaver, Lance, Rina Nichols, William F. Rakotombololona, Anselme T. Volahy and Joanna Durbin  **Title:** Population status, distribution and conservation needs of the narrow-striped mongoose Mungotictis decemlineata of Madagascar  **Source:** Oryx 40(1): 67-75  **Year:** 2006  **Keywords:** wildlife rare endangered  **Abstract:**
The narrow-striped mongoose Mungotictis decemlineata is a small, endemic carnivore currently known to occur only in the dry deciduous forests of the central and southern Menabe regions of western Madagascar. It is categorized as Endangered...  **Contact Author:** lancewoolaver@hotmail.com

**Author(s):** Xie Dao-wen and SHI Shi-liang  **Title:** Prediction for burned area of forest fires based on SVM model  **Source:** Applied Mechanics and Materials 513-51: 4084-4089  **Year:** 2014  **Keywords:** modeling  **Abstract:** Forest fire spreading is a complex burning phenomenon, and it is difficult to build a general spreading model for the fires occurred in different area over the world, even in the same country. Accordingly, predicting the burned area of forest fires...  **Contact Author:** dwxie@hnust.edu.cn

**Author(s):** Xiuzhen Li, Fuju Xie, Xugao Wang and Fanhua Kong  **Title:** Human intervened post-fire forest restoration in the Northern Great Hing’an Mountains: A review  **Source:** Landscape Ecol Eng 2:129-137  **Year:** 2006  **Keywords:** restoration  **Abstract:**  **Contact Author:** landscape2001@sina.com

**Author(s):** Yaakob, Razali, Norwati Mustapha, Ahmad Ainuddin B. Nuruddin and Imas Sukaesih Sitanggang  **Title:** Modeling Forest Fires Risk using Spatial Decision Tree  **Source:** 2011 3rd Conference on Data Mining and Optimization, 28-29 June 2011, Selangor, Malaysia, 978-1-61284-212-7/11/$26.00 - 2011 IEEE  **Year:** 2011  **Keywords:** modeling risk  **Abstract:** Forest fires have long been annual events in many parts of Sumatra Indonesia during the dry season. Riau Province is one of the regions in Sumatra where forest fires seriously occur every year mostly because of human...  **Contact Author:** razaliy@fsktm.upm.edu.my

**Author(s):** Yassemi, S. and S. Dragievi  **Title:** Web Cellular Automata: A Forest Fire Modeling Approach and Prototype Tool  **Source:** Cartography and Geographic Information Science 35(2): 103-115  **Year:** 2008  **Keywords:** modeling  **Abstract:** The integration of geographic information systems (GIS) and spatio-temporal modeling procedures with Internet technology can significantly improve the decision-
making process for environmental and disaster management. The objective...

Contact Author: s_yassemi@alumni.sfu.ca

Author(s): Yue Jinzhu, FENG Zhongke, JIANG Wei, YANG Xiaoqin Title: Risk management: A probe and study on forest fires Source: Front. For. China 2(3): 335-339 Year: 2007 Keywords: risk Abstract: The subject of risk management is attracting more and more attention around the world. The risk of forest fire disasters should be faced and dealt with for forest fires cannot be avoided. Treating forest fire disasters... Contact Author: yuephd@sina.com

Author(s): Yelenik, Stephanie G., Steven S. Perakis and David E. Hibbs Title: Regional constraints to N2-fixation in post-fire forest succession Source: Unpublished manuscript, 2 pages Year: n. d. Keywords: open access Contact Author: stephanie.yelenik@lifesci.ucsb.edu

Author(s): Yelenik, Stephanie G., Steven S. Perakis, and David E. Hibbs Title: Regional constraints to N2-fixation in post-fire forest succession Source: 96th ESA Annual Convention, 2011 Year: 2011 Keywords: soils nutrients Note: You can link to this Open Access document on FRI's web site

Author(s): Young, James A. and Robert R. Blank Title: Cheatgrass and Wildfires in the Intermountain West Source: California Exotic Pest Plant Council 1995 Symposium Proceedings Year: 1995 Keywords: exotics Note: You can link to this Open Access document on FRI's web site

Author(s): Yangmin Qin, Richard J. Payne, Yansheng Gu and Yanxin Wang Title: Short-term response of testate amoebae to wildfire Source: Applied Soil Ecology 116: 64-69 Year: 2017 Keywords: peat amoebae Abstract: Many peatlands are exposed to intermittent burning but the implications of this burning for microbial communities have been little-studied. Here we consider the impacts of burning on the dominant protists of peatland ecosystems, the testate amoebae. To do this we used a "natural experiment", a peatland exposed to... Contact Author: qinyangmin2005@163.com

Author(s): Zeng Tao and Huang Hui Title: Influences to Forest Fire Occurrence of Climate Change: A Study in Ta He Forestry Bureau in Great Xing’an Mountain Source: Advanced Materials Research Vols 393-395 Year: 2012 Keywords: statistics modeling Abstract: Forest fire is one of the most important ecological factors in the forest ecosystem. The Daxinanling forest region has not only the largest forest
areas, but also the biggest forest fire burned area in China. By analyzing the recorded climate and forest fire data of Ta...

**Author(s):** Zhilin Qu, Haiqing Hu and Lei Yu  
**Title:** Study of A Prediction Model for Forest Fire-Initial Burnt Area on Meteorological Factors  
**Source:** unknown source, 4 pages  
**Year:** n. d.  
**Keywords:** modeling  
**Contact Author:** q_zhilin@nefu.edu.cn

**Author(s):** Zhu Qijiang, RONG Taizong and SUN Rui  
**Title:** A case study on fractal simulation of forest fire spread  
**Source:** Science in China 43: 104-111  
**Year:** 2000  
**Keywords:** modeling  
**Abstract:** This paper relates to the semi-empirical model based on fire field energy balance and the physical model based on land temperature, aiming to provide a practical way of describing fire spread. Fire spread is determined by the characteristics of combustible...  
**Contact Author:** zhuqj@bnu.edu.cn

**Author(s):** Zhiyong Wang, Sisi Zlatanova, Aitor Moreno, Petervan Oosterom and Carlos Toro  
**Title:** A data model for route planning in the case of forest fires  
**Source:** Computers and Geosciences 68: 1-10  
**Year:** 2014  
**Keywords:** modeling  
**Contact Author:** Z.Wang-1@tudelft.nl
Australian Vegetation, Third Edition
EDITED BY David A. Keith
June 2017, Hardback, 766 pp

*Australian Vegetation* has been an essential reference for students and researchers in botany, ecology and natural resource management for over 35 years. Now fully updated and with a new team of authors, the third edition presents the latest insights on the patterns and processes that shaped the vegetation of Australia. The first part of the book provides a synthesis of ecological processes that influence vegetation traits throughout the continent, using a new classification of vegetation. New chapters examine the influences of climate, soils, fire regimes, herbivores and aboriginal people on vegetation, in addition to completely revised chapters on evolutionary biogeography, quaternary vegetation history and alien plants. The book’s second half presents detailed ecological portraits for each major vegetation type and offers data-rich perspectives and comparative analysis presented in tables, graphs, maps and colour illustrations. This authoritative book will inspire readers to learn and explore first-hand the vegetation of Australia.

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Book Description:
Wildland fire has and continues to impact humans and our environment both positively and negatively. Being able to co-exist with fire on the landscape is becoming increasingly more important as man expands his use of the world’s ecosystems. This book is the latest contribution dedicated towards the scholarship surrounding the subject of wildland fires. The present volume consists of a collection of essays covering fire science and technology topics that support the management of wildfires and prescribed fires written by specialists in their respective fields. The nine chapters cover the following: (i) the need of fire and the consequences of policies of attempted fire exclusion to try and manage the wildfire problem; (ii) a review of the current state-of-knowledge of the role of remote sensing technologies in managing wildfires; (iii) a description of how the Canadian system of forest fire danger rating has been introduced into Argentina; (iv) the rationale for adding an “A” for anchor point(s) to the LCES (Lookout(s) – Communication(s) – Escape routes – Safety zone(s)) safety system for wildland firefighters, thus denoting LACES; (v) a case study involving the use of cloud-based geographic information system on the 2013 Silver Fire in southern California; (vi) the deaths that have occurred amongst rural firefighters and members of the public in Greece since 1997; (vii and viii) two separate overviews of the history, ecology and management of two large Argentinian regions of South America; and (ix) an assessment undertaken of wildland firefighter fatalities in South Africa over the past twenty years or so. (Imprint: Nova)
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New Book about the Yarnell Incident

My Lost Brothers, Brendan McDonough and Stephan Talty. 2016. Hachette Book Group, New York, 278 pages. $16.20 hardbound

This is a memoir, not an analysis, and provides little we didn't know about the Yarnell fatality incident in which 19 hotshots were killed when overrun by fire in Arizona in 2013. The story begins with the survivor's childhood, and carries forward to his third year as a firefighter on the Granite Mountain Interregional Hotshot Crew. He was separated from the crew as a lookout on the Yarnell Hills Fire, and is in the dark as much as all of us as to what was behind the fatal decision to cross a mile of green in the path of the fire. Despite this disappointment, I might recommend the book as a good read.

Click on the book image above to link to your Amazon account.
Aborigines came to Australia and burnt out most of the trees and bushes. The megafauna starved whilst eucalypts, herbs, grasses and mesofauna flourished. The ancient culture survived an ice age, global warming and hugely rising seas, forging economies in woodlands and deserts. Europeans doused the firestick, woodlands turned to scrub, mesofauna perished, megafires and tree-eaters irrupted. Foresters rekindled the firestick and greens stole it. Megafires and declines are back with a vengeance whilst ecologists dream-up reasons not to burn. Ecological history shows that we must apply the firestick frequently, willingly and skillfully to restore a healthy, safe environment and economy.

Click on the book image above to link to your Amazon account.
New Book about Stoddard's Methods in Management of Longleaf Pine


Once considered controversial, the Stoddard Method is now accepted among foresters and environmentalists as the best art in managing this highly fire dependent species. Herbert Stoddard was not an educated man compared to his peers, but his feet-on-the-ground capacity for understanding complex ecological landscapes is genius. A close friend of Aldo Leopold and other environmental thinkers of his time, he worked with Leon Neel to develop and test his set of management principles. This book is an interview with Neel that describes the evolution of the Stoddard-Neel approach, its details, and the results of their studies. This is well-written books that will fully explain the Stoddard principles and their genesis and bring to the reader an intimate feel for the place, the times and the issues.

To order, please click on the book image or contact Amanda Sharp at asharp@uga.edu
New Book on the Role of Fire in the Earth System


This very reasonably priced book written in 17 Chapters by 59 of the world's most well-known fire scientists is a global state-of-the-art analysis of the role of vegetation fires in the earth system - fire science, ecology, atmospheric chemistry, remote sensing and climate change modeling. Chapters include discussions of paleofire, current fire regimes in Russia, boreal permafrost biomes, tropical southeast Asia, tropical South America, Mediterranean, Australia, temperate-Mediterranean North America, Subsahara Africa, emissions, fire modeling, social and economic dimensions of fire, remote sensing and climate change.

To order, click on the book image or contact Norbert Kessel at nkessel@web.de. There is a discount for 20 copies or more.
New Book on Prescribed Burning in Russia


To me personally, this is a very exciting addition to the literature on fire in Russia. Invited by Dr. Goldammer and our hosts in Krasnoyarsk in the early 1990's, I was thrilled to be able to attend the conference being put on by our Russian colleagues and to witness a burn experiment on Bor Island in northern Siberia. That experiment was the beginning of twenty years of work summarized in this book. Equally exciting and important is the rare opportunity to read about the history and progress in prescribed burning in Russia and to see references in the bibliographies in this book to Russian literature that have not been available until now. Written by Goldammer and a number of preeminent scientists in Russia, this is an excellent reference to fire in this part of the world.

To order, click on the book image or contact Norbert Kessel at nkessel@web.de. There is a discount for 20 copies or more.
New Book on fire Investigation


There are few books available that cover wildland fire investigation in detail. This new book summarizes two decades of experience in South Africa investigating fires. The chapters cover the ecology of fire, fuel and fire dynamics, cause and origin determination, reconstruction of wildfire spread, witness reports, damage assessment, insurance and arbitration. Nicely illustrated in color and well written, this book is essential to anyone interested in this field.

To order, click on the book image or contact Norbert Kessel at nkessel@web.de. There is a discount for 20 copies or more.
The coastal sage and shrublands of California burn. The mountain-encrusting chaparral burns. The conifer forests of the Sierra Nevada, Cascades, and Trinity Alps burn. The rain-shadowed deserts after watering by El Niño cloudbursts and the thick forests of the rumpled Coast Range—all burn according to local rhythms of wetting and drying. Fire season, so the saying goes, lasts 13 months.

In this collection of essays on the region, Stephen J. Pyne colorfully explores the ways the region has approached fire management and what sets it apart from other parts of the country. Pyne writes that what makes California’s fire scene unique is how its dramatically distinctive biomes have been yoked to a common system, ultimately committed to suppression, and how its fires burn with a character and on a scale commensurate with the state’s size and political power. California has not only a ferocity of flame but a cultural intensity that few places can match. California’s fires are instantly and hugely broadcast. They shape national institutions, and they have repeatedly defined the discourse of fire’s history. No other place has so sculpted the American way of fire.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($19.95).

In Florida, fire season is plural, and it is most often a verb. Something can always burn. Fires burn longleaf, slash, and sand pine. They burn wiregrass, sawgrass, and palmetto. The lush growth, the dry winters, the widely cast sparks—Florida is built to burn.

In this important new collection of essays on the region, Stephen J. Pyne colorfully explores the ways the region has approached fire management. Florida has long resisted national models of fire suppression in favor of prescribed burning, for which it has ideal environmental conditions and a robust culture. Out of this heritage the fire community has created institutions to match. The Tallahassee region became the ignition point for the national fire revolution of the 1960s. Today, it remains the Silicon Valley of prescription burning. How and why this happened is the topic of a fire reconnaissance that begins in the panhandle and follows Floridian fire south to the Everglades.

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Fuego en el Pantanal - Incendios forestales y perdida de recursos de biodiversidad en San Matias - Santa Cruz, Martínez, Jose A., 2003, Investigaciones Regionales, Santa Cruz, Bolivia, 187 pages, $45.01

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($45.01).
Natural Disturbances and Historic Range of Variation, edited by Catheryn H. Greenberg and Beverly S. Collins, 2015, Springer, 400 pages, $92.58

This book discusses the historic range of variation (HRV) in the types, frequencies, severities and scales of natural disturbances, and explores how they create heterogeneous structure within upland hardwood forests of the Central Hardwood Region (CHR). The book was written in response to a 2012 forest planning rule which requires that national forests to be managed to sustain ‘ecological integrity’ and within the ‘natural range of variation’ of natural disturbances and vegetation structure. Synthesizing information on HRV of natural disturbance types, and their impacts on forest structure, has been identified as a top need.

Historically, both non-anthropogenic and anthropogenic disturbances were integral to shaping central hardwood forests, and essential in maintaining diverse biotic communities. Spatial extent, frequency and severity differ among natural disturbance types, creating mosaics and gradients of structural conditions and canopy openness across the landscape.

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($92.58).
Nuevo enfoque en la defensa contra los incendios forestales en España / New approach to protection against forest fires in Spain, Jorge Agudo Gonzalez, 2010, Dykinson, 170 pages, $31.95

El trabajo que se publica es fruto de una larga e intensa investigación, que forma parte del proceso de desarrollo de un proyecto europeo único en la materia y que aborda uno de los casos de gestión de incendios forestales más destacados y complejos en Europa. El profesor Agudo elige para ello un enfoque integrador y territorial que se aleja del clásico planteamiento sectorial desde el que se ha venido legislando y planificando la defensa contra incendios forestales en los países europeos.

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Prevencion de Riesgos Laborales y Ambientales en Trabajos de Extincion de Incendios Forestales, Gregorio Perez Borrego, Jose Ignacio Morales Mesa, M. Jose Rodriguez Ramos and Francisco Salas Trujillo, 2007, Tecnos Editorial, 416 pages, $37.95 and $28.50 used.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($37.95 and $28.50 used).
Sistemas de Información Geográfica en incendios forestales: Caso de estudio para la prevención de incendios en Parque Nacional Tunari - Bolivia, Daniel C. Cruz Fuentes, Editorial Academica Espanola, 188 pages, $72.00 and $67.34 used.

El Parque Nacional Tunari ubicado a 2 800 m.s.n.m en Bolivia tiene una alta frecuencia de incendios forestales. Actualmente los Sistemas de Información Geográfica (SIG) son una herramienta de alta utilidad para la prevención de incendios. La presente investigación se basa en la aplicación de estas herramientas. En base a la teoría de desenvolvimiento del fuego y a estudios modelo, se definieron las variables concernientes a la ignición y propagación. Además fueron seleccionados los atributos más relevantes, se recopiló y analizó la información para luego procesarla en un modelo de análisis espacial. El ámbito antropogénico, la meteorología, topografía y la vegetación son las esferas que combinadas de acuerdo con su importancia, hacen del modelo propuesto y sus mapas resultantes una herramienta integral. Su discusión, corrección y validación con la participación de las instituciones concernientes al tema, pueden poner el estudio en aplicación y a consideración como aporte a la literatura especializada en la aplicación de SIG.

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Gender and Wildfire, 2014, Christine Eriksen, Francis and Taylor Publishers, 185 pages, $47.65

In pursuit of lifestyle change, affordable property, and proximity to nature, people from all walks of life are moving to the wildland-urban interface. Tragic wildfires and a predicted increase in high fire danger weather with climate change have triggered concern for the safety of such amenity-led migrants in wildfire-prone landscapes.

This book examines wildfire awareness and preparedness amongst women, men, households, communities and agencies at the interface between city and beyond. It does so through an examination of two regions where wildfires are common and disastrous, and where how to deal with them is a major political issue: southeast Australia and the west coast United States. It follows women’s and men’s stories of surviving, fighting, evacuating, living and working with wildfire to reveal the intimate inner workings of wildfire response – and especially the culturally and historically distinct gender relations that underpin wildfire resilience.

Wildfire is revealed as much more than a "natural" hazard – it is far from gender-neutral. Rather, wildfire is an important means through which traditional gender roles and power relations are maintained despite changing social circumstances. Women’s and men’s subjectivities are shaped by varying senses of inclusion, exclusion, engagement and disengagement with wildfire management. This leads to the reproduction of gender identities with clear ramifications for if, how and to what extent women and men prepare for wildfire.

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Incendios forestales y su impacto, Iris Gomez Ramudo, Editorial Académica Española, 396 pages, $117.00 and $108.88 used

Según datos del MAGRAMA (Ministerio de Agricultura, Alimentación y Medio Ambiente), en el último año se han quemado más de 53.286 hectáreas de bosque en España en más de 2.495 incendios, 16 de ellos incluidos en los considerados como Grandes Incendios Forestales. El año 2012, con 189.321 hectáreas arrasadas por el fuego, es considerado uno de los peores de los últimos 20 años. Los incendios forestales se han convertido en un importante problema ambiental, tanto en nuestro país como a nivel mundial. En el presente proyecto, a modo de revisión, se exponen sus principales factores, causas y efectos, así como una serie de acciones que se deben llevar a cabo en las tareas de prevención y detección, durante la propagación y en la extinción de incendios, sin olvidarnos de la restauración de las superficies afectadas.

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Por incendios forestales nos referimos a incendios (sean de origen natural o antrópico) que ocurren en los ecosistemas terrestres, y que se propagan por la vegetación, sea del tipo que sea (bosques, sabanas, matorrales, pastizales, humedales, turberas, etc.). Gran parte de la gente asocia los incendios forestales a eventos catastróficos, Sin embargo, y como vemos al lo largo de este libro, los incendios forman parte de la misma naturaleza y han moldeado la diversidad de nuestros ecosistemas. Existen regímenes de incendios que son totalmente sostenibles desde el punto de vista ecológico, si bien es cierto que muchos cambios provocados por la humanidad han generado regímenes de incendios insostenibles. La rama de la ciencia que estudia el papel de los incendios en los organismos y los ecosistemas, se llama ecología del fuego, y es el tema central de este libro. La ecología del fuego proporciona la base científica para mejorar el conocimiento y la gestión del territorio en ambientes donde los incendios tienen un papel preponderante. No es posible realizar una gestión sostenible de los recursos, sin tener una base sólida de los procesos implicados. Este libro pretende aportar alguno de estos conocimientos al público general.

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Chapters include: Sistema satelital de incendios forestales en México (Satelital system for forest fires in Mexico) J. A. Raigoza; Avances en la investigación en incendios forestales en México (2004) (Advances in forest fires research in Mexico, 2004) J. G. Flores; J. D. Benavides; Parámetros ambientales físico-bióticos y modelos para estudiar el comportamiento del fuego (Physical-biotic environmental parameters and models to study fire behavior) L. Villers; Ecología del fuego y manejo integral del fuego en las montañas del Valle de México, bosque de coníferas (Fire ecology and integrated fire management in the mountains of Valle de México, conifer corest) D. A. Rodríguez; Efecto de los incendios forestales en el escurreimiento y la erosión (Effects of forest fires in runoff and erosion) J. D. Benavides S.; J. G. Flores; Efecto del fuego en un matorral xerófilo en el Valle de México (Effect of fire in a xerophytic shrubland in the Valle de México) S. Castillo A.; P. Guadarrama C.; Y. Martínez; El programa de prevención de incendios FMCM-USAID (Thre fire prevention program FMCM-USAID) J. M. Frausto; Programa de difusión de incendios forestales en la Zona sujeta a conservación ecológica Sierra de Zapalinamé (Forest fires extensionism program in the zone under ecological conservation Sierra de Zapalinamé) C. Ochoa; Campaña de educación ambiental y capacitación para el uso responsable del fuego en la reserva de la biosfera Ría Lagartos (Campaign of environmental education and training for the responsible fire use in the preserve Ría Lagartos) M. Quijano F.; L. Hernández P.; L. Poot; Capacitación en manejo del fuego (Training in fire management) A. Nájera; Imporancia de la capacitación en la actividad de protección contra los incendios forestales para México (Importance of training in the activity of protection against forest fires in Mexico) O. Cedeño S.; R. Martínez; Experiencia de participación social en la prevección y combate de incendios forestales (Participation experience in the prevention of forest fires and fire fighting) F. J. Hinojosa; Asociación de productores y responsables técnicos del estado de Chihuahua, A. C. (Association of producers and technical responsibilities of Chihuahua state, Civil Association) O. Portillo G.; M. Saldaña L.; B. Arzabala M.; J. Torres; Consideraciones sobre incendios en bosques tropicales y templados de áreas protegidas de México (Considerarions about forest fires in tropical rain forests and temperate forests of Mexican protected areas) E. Alvarado; Sistema nacional de protección contra los incendios forestales (National system of protection against forest fires) O. Estrada; Manejo del fuego y restauración de bosques en la Reserva de la Biosfera Sierra de Manantlán (Fire management and restoration of forests ath the Biosphere Reserve Sierra de Manantlán) E. Jardel P.; R. Ramírez V.; F. Castillo N.; S. García R.; Ó. E. Balcazar M.; J. C. Chacón M.; J. E. Morfín R.

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El fenómeno de los incendios forestales. El comportamiento del fuego en los ecosistemas forestales. Planificación de la defensa contra incendios forestales. La prevención. La extinción. La defensa contra incendios forestales en Iberoamérica.

**Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($99.95).**
Los Seguros contra incendios forestales y su aplicación en Galicia, Juan Picos Martín, Fundacion Mapfre, 368 pages, $22.36

No description of this book is available.

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Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($20.42).
¿Por qué están aumentando los incendios forestales en todo el mundo y cuáles son sus causas? ¿quiénes combaten los incendios de vegetación y cómo? ¿Puede el fuego tener efectos benéficos en los bosques? Estas y muchas otras preguntas son contestadas en este libro, de manera amena, sencilla y con plenitud de ilustraciones. Educación e Incendios Forestales va dirigido al público en general, pero también está diseñado para servir como libro de texto en escuela técnicas profesionales. Asimismo, el material puede resultar de utilidad como referencia para estudiantes de licenciatura, forestales, agrónomos, biólogos y de otras áreas afines, y como fuente de información para maestros de escuelas a nivel básico y medio que vayan a enseñar temas ambientales y forestales a sus niños y jóvenes estudiantes. El libro también fue pensado para que resulte de utilidad en la capacitación de voluntarios o de combatientes que se inician en la lucha contra las llamas. Además de los temas clásicos de prevención y combate, incluye, entre otros, una crónica de los incendios de México y Florida en 1998, otro sobre la importancia de la educación en sus distintos niveles acerca del tema incendios, y una propuesta de manejo del fuego. También se espera contribuir aunque sea mínimamente en informar a la opinión pública sobre el candente tema de los incendios forestales.

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Exploring the role of fire in each of the five Mediterranean-type climate ecosystems, this book offers a unique view of the evolution of fire-adapted traits and the role of fire in shaping Earth's ecosystems. Analyzing these geographically separate but ecologically convergent ecosystems provides key tools for understanding fire regime diversity and its role in the assembly and evolutionary convergence of ecosystems. Topics covered include regional patterns, the ecological role of wildfires, the evolution of species within those systems, and the ways in which societies have adapted to living in fire-prone environments. Outlining complex processes clearly and methodically, the discussion challenges the belief that climate and soils alone can explain the global distribution and assembly of plant communities. An ideal research tool for graduates and researchers, this study provides valuable insights into fire management and the requirements for regionally tailored approaches to fire management across the globe.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($103.00/$43.20).
Special offer to Current Titles subscribers from the publisher

Global and Regional Vegetation Fire Monitoring from Space, paper, color plates, 303 pages, $59.00

Satellite remote sensing technology is playing an important role for monitoring fires and their consequences, as well as in operational fire management. In response to this need as well as to respond to other needs for more rapid progress in forest observation the Committee on Earth Observation Satellites initiated Global Observation of Forest Cover (GOFC) as an international pilot project to test the concepts of an integrated global observing system. GOFC was designed to bring together data providers and information users to make information products from satellite and in-situ observations of forests more readily available worldwide. Fire Monitoring and Mapping was formed as one of three basic components of GOFC. This book contains eighteen contributions (see below) authored by scientists who represent the most active international research and development institutions, aiming at coordinating and improving international efforts for user-oriented systems and products. These papers were initially presented at a GOFC Fire Workshop held at the Joint Research Centre, Ispra. The volume is a contribution of the GOFC Forest Fire Monitoring and Mapping Implementation Team to the Interagency Task Force Working Group Wildland Fire of the UN International Strategy for Disaster Reduction (ISDR).

List price of the book is $94.50, but the publisher will offer Current Titles readers a discount price of $59.00, plus shipping costs. Order by clicking on the book cover above or at http://www.kuglerpublications.com/index.php?p=11&page=publication. Enter the discount code “AhernIBWF” in the remark box to have the discount applied.

Researchers from CSIRO and the Australasian Fire and Emergency Service Authorities Council (AFAC) have conducted a comprehensive analysis of the different fire spread models. Their aim was to determine which models could be applied under different conditions for operational use in prescribed burning and wildfire suppression in different Australian vegetation types - specifically grasslands, shrublands, both dry and wet eucalypt forests, and in conifer plantation fuel types.

This publication consolidates, for the first time, all published Australian models into one resource guide, together with a comprehensive analysis of their potential applications, benefits and limitations. It evaluates application of the models in different vegetation types and burning conditions, and provides detailed performance appraisals.

In the book, the authors examine the three different eras of bushfire rate of spread modelling breakthroughs, including the initial breakthrough by Australia’s first fire researcher, Alan G McArthur, over a twenty year period from the 1950s, through to the preliminary industry-research partnerships era spanning from 1970 to 2002 to the present comprehensive research and industry collaboration era.

New Book on the Fynbos Vegetation of South Africa


This new book features 16 chapters written by 70 contributors, including fire ecologists David Ackerly, Richard Cowling, Tineke Kraaij, David le Maitre, Guy and Jeremy Midgley, David Richardson, Brian van Wilgen and G. Anthony Verboom. Discussions include the paleohistory of the fynbos, its fire ecology, biological invasions, and the impact of climate change.

Chapters Include:

- Verboom, G. A., H. P. Linder, F. Forest, V. Hoffmann, N. G. Bergh And R. M. Cowling. Cenozoic Assembly Of The Greater Cape Flora;
- Altwegg, R., A. West, L. Gillson And G. F. Midgley Impacts Of Climate Change In The Greater Cape Floristic Region;
- Kraaij, T., B. W. Van Wilgen Drivers, Ecology, And Management Of Fire In Fynbos;

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https://global.oup.com/academic/search?q=fynbos&cc=us&lang=en
Natural Disturbances and Historic Range of Variation, edited by Catheryn H. Greenberg and Beverly S. Collins, 2015, Springer, 400 pages, $179.00 new and $92.58 used

This book discusses the historic range of variation (HRV) in the types, frequencies, severities and scales of natural disturbances, and explores how they create heterogeneous structure within upland hardwood forests of the Central Hardwood Region (CHR). The book was written in response to a 2012 forest planning rule which requires that national forests to be managed to sustain ‘ecological integrity’ and within the ‘natural range of variation’ of natural disturbances and vegetation structure. Synthesizing information on HRV of natural disturbance types, and their impacts on forest structure, has been identified as a top need.

Historically, both non-anthropogenic and anthropogenic disturbances were integral to shaping central hardwood forests, and essential in maintaining diverse biotic communities. Spatial extent, frequency and severity differ among natural disturbance types, creating mosaics and gradients of structural conditions and canopy openness across the landscape.

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($179.00/92.58)
Until I began reading this beautifully crafted book by Perera and Buse, I had not the slightest idea what "wildfire residuals" are. With all the emphasis on spotting on large fires, the topic of residuals (unburned islands within the footprint of the fire) has barely been elucidated until this excellent book. My own first awareness of the existence and importance of residuals ("streets" I think we called them) was for me, and probably for you, in the aftermath of the Yellowstone fires of '88, where some interesting fire patterns resulted from horizontal vortices. Perera and Buse make a powerful team, as Perera has been studying residuals for many years, and Buse is a gifted science writer. The result is a well organized and clearly written review of the literature on residuals, their formation, their types, and their ecological and silvicultural roles. The studies cited and the principles discussed can be, for the most part, transferred to ecosystems other than boreal forests. However, this is a valuable addition to works on boreal forests, which (I learned) account for one-third the world's forests, and three-quarters of the world's coniferous forests.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($77.88/$92.46).
Newly Released Book on the Yarnell Incident

On the Burning Edge, Kyle Dickman, 2015, Ballentine Books, 277 pages, $5.99 new and $5.78 used

Kyle Dickman, author of this new book on the Yarnell fatalities of 2013, is a former editor of Outside magazine and a former member of the Tahoe Hotshots. His reporting has been nominated for a National Magazine Award. In his well-researched book, he describes the inner dynamics of the Granite Mountain hotshot crew. The reader gains valuable insights into the personal lives of the supervisors and several of the crew members, and gets a perspective on what may have been in the minds of the crew as they followed their supervisor out of their secure location in the black, across a half mile of bone-dry brush toward the Boulder Springs Ranch. Dickman’s description of the chaos that was unfolding around the crew before, during and after the crew’s shelter deployment is an worthy contribution to the many studies done on this incident.

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($5.99/$5.78), but part of the proceeds goes to FRI.
New book on a forgotten fatal fire at a 25% discount


I jumped with Charlie in 2000 and 2001, and it never occurred to me that he was thinking such serious thoughts! Charlie, now incarnated as a professor at the University of Montana, accidentally uncovered a long-forgotten fire, the 1931 Waldron Creek Fire, in which five men died when they got separated from the rest of the crew. Charlie could find no records on the deaths, but was able to piece together from family and other diverse sources what happened to the men, and what occurred after the discovery of the bodies. This is a sad commentary on the commitment of a major federal agency to their firefighters, which, unfortunately is not an isolated incident. Briefly covering the fatal Thirty Mile and Esperanga Fires, Charlie underscores situations where resources at risk appear to be valued more than lives of firefighters.

Current Titles subscribers will receive 25% off their order if you purchase both this book and Fighting Fire in the Sierra Nevada (see next ad). To order, click on the cover or go to www.arcadiapublishing.com. The coupon code to use at checkout is WILDLANDFIRE.
New book on the history of fire and prescribed burning on the Sierra National Forest in California, USA at a 25% discount


Ms. Freedman does an excellent job of covering the history of the early Sierra National Forest, with emphasis on the controversy over prescribed burning. Starting with pre-settlement fire and moving into the early 20th century, with the founding of the US Forest Service, she discusses the fight over "light burning." Although westerners understood the use of fire, politics and the 1910 catastrophic Big Burn allowed anti-fire supporters to gain the momentum on this argument. It wasn't until the arrival of Dr. Harold Biswell from the southeastern tradition of prescribed burning that this tool was again seriously considered.

Current Titles subscribers will receive 25% off their order if you purchase both this book and Montana’s Waldron Creek Fire (see previous ad). To order, click on the cover or go to www.arcadiapublishing.com. The coupon code to use at checkout is WILDLANDFIRE.

Reading this book is such a pleasure. Pooley has done an incredible amount of research and has a very firm grasp of the history of South Africa, general ecological theory, and most especially fire ecology. The book details the evolution of human understanding and use of fire from the practices of Khoikhoi herders to the recent firestorm of January 2000.

"In this meticulously researched and lucidly written book, Simon Pooley exposes the reader to the myriad of contradictions and conflicts that arise when northern Europeans colonise a fire-prone ecosystem...a must-read for social and natural scientists that grapple with the human-wildland interface in the vast areas of the world's fire-prone ecosystems." Professor Richard Cowling, Nelson Mandela Metropolitan University, South Africa

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New Book on the Legal Aspects of Wildfire Mitigation

Disaster and Sociolegal Studies, edited by Susan Sterett, QuidPro LLC, New Orleans, 251 pages, $54.99

This book is very current on the legal aspects of disaster mitigation, and includes some interesting chapters with titles like: Uncertain Governance and Resilient Subjects in the Risk Society; Transboundary Impacts of the 2010 Haiti Earthquake Disaster; Disaster Mythology and Availability Cascades, and Long Term Recovery in Disaster Response and the Role of Non-Profits. The most interesting to us will be Lloyd Burton’s chapter The Comparative Jurisprudence of Wildfire Mitigation. In this chapter, Burton, a professor of law and public policy in the School of Public Affairs at the University of Colorado, Denver, compares the history and current status of law regarding wildfire mitigation in two very different states - California and Colorado. Burton’s observations, thoughts and conclusions apply not only to US law but can be applied to research in other cultures as well, such as Australia and Spain, to name two.

To purchase, please click on the book image or contact Alan Childress at Quid Pro Books at info@quidprolaw.com

In 1950, the biggest firestorm documented in North America - 3,500,000 acres of forest burned in northern Alberta and British Columbia - created the world's largest smoke layer in the atmosphere. The smoke travelled half way around the northern hemisphere and made the moon and sun appear blue. The Chinchaga Firestorm is an historical study of the effects of fire on the ecological process. Using technical explanations and archival discoveries, Cordy Tymstra, a wildlife science coordinator with Environment and Sustainable Resource Development at the government of Alberta, shows the beneficial yet destructive effects of many forest fires, including the 2011 fire in Slave Lake, Alberta. This book will appeal to wildland fire scientists, foresters, forest ecologists and policy makers, as well as those who are interested in western Canadian history and ecology.

To order this book, please click on the cover or go to

http://www.uap.ualberta.ca/titles/194-9781772120035-chinchaga-firestorm

The first edition of this book, published in 2009, was the definitive work reviewing the expanding research literature on this topic. Since then, the rate of research activity has increased at least ten-fold, and biochar products are now commercially available as soil amendments. This second edition includes not only substantially updated chapters, but also additional chapters: on environmental risk assessment; on new uses of biochar in composting and potting mixes; a new and controversial field of studying the effects of biochar on soil carbon cycles; on traditional use with very recent discoveries that biochar was used not only in the Amazon but also in Africa and Asia; on changes in water availability and soil water dynamics; and on sustainability and certification. The book therefore continues to represent the most comprehensive compilation of current knowledge on all aspects of biochar.

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($140.00).
Thought-provoking book on fire in the Rocky Mountains (and everywhere else)


"Baker presents a refreshing perspective on fire ecology, revealing multidimensional factors at work in Rocky Mountain ecosystems. His willingness to question established paradigms breaks new ground and will add immensely to our understanding of fire in these systems, ensuring that this will be a standard reference for years to come." Jon Keeley, research ecologist, US Geological Survey, and adjunct professor, University of California, Los Angeles

"Baker makes a compelling argument that extensive, high-severity fires are a natural component of Rocky Mountain ecosystems; and he questions the widespread view that our 'fire problem' and 'forest health problems' are a consequence of twentieth-century fire suppression. This book dismisses old strategies stressing costly fuels reduction and fire suppression, and instead suggests sustainable strategies that treat wildfire as a problem in land-use decision making." Thomas Veblen, professor, Department of Geography, University of Colorado, Boulder

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New book on fire in the earth system

Fire on Earth: An Introduction, Andrew C. Scott et al. 2014, Wiley Blackwell Books, 413 pages, $43.95

*Fire on Earth* puts fire in its rightful place as an integral part of the study of geology, geography, biology, human history, physics and global chemistry. Fire is ubiquitous in various forms throughout Earth and belongs as part of formal inquiries about our world. This full-colour test, containing over 250 illustrations of fire in all contexts, is designed to provide a synthesis of contemporary thinking, bringing together the most powerful concepts and disciplinary voices to examine, in an international setting, why planetary fire exists, how it works, and why it looks the way it does today. Students, lecturers, researchers and professionals interested in the physical, ecological and historical characteristics of fire will find this book, and accompanying web-based material, essential reading, it is an indispensable text for undergraduate and postgraduate courses in all related disciplines, for general interest and for providing an interdisciplinary foundation for further study.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($43.95), but part of the proceeds goes to FRI.
Stephen Pyne's New Book

Hardcover $50.66, paperback $18.79

*Between Two Fires* is America's story told through the nation's flames. Award-winning author Stephen J. Pyne tells of a fire revolution that began in the 1960s as simple suppression, stalled in the 1980s counterrevolution, and finally was replaced with more enlightened programs of fire management. But today, writes Pyne, fire agencies are scrambling for funds, firefighters continue to die, and the country seems unable to come to grips with the fundamentals behind a rising tide of megafires. Pyne has constructed a history of record that will shape our next century of fire management.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($18.79), but part of the proceeds goes to FRI.
The Year Yellowstone Burned: A twenty-Five-Year Perspective

Jeff Henry, 2015, Taylor Trade Publishing, 285 pages. $15.75 new and $11.70 used

Jeff Henry was working in Yellowstone National Park as a firefighter during the 1988 fires while developing a career as a professional writer and photographer. Many of the excellent pictures in this beautiful book are his. With a forward by Bob Barbee, Yellowstone's Superintendent from 1983-1994, the book starts with an illustrated background of the history of fire in Yellowstone, and then is organized chronologically by day.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($15.75/$11.70), but part of the proceeds goes to FRI.
Black Saturday at Steels Creek

Peter Stanley, 2013, Scribe Press, Melbourne, 221 pages. Paperback $16.21

The Black Saturday bushfires killed 173 people - wreaking a greater human toll than any other fire in Australia's history. Ten of those victims died in Steels Creek, a small community on Melbourne's outskirts. It was a beautiful place, which its residents had long treasured and loved. By the evening of 7 February 2009, it felt like a battlefield. the most detailed account of any one community to emerge from the fire, Black Saturday at Steels Creek shows what Black Saturday means not only for Steels Creek, but also for Australia as a whole.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($16.21), but part of the proceeds goes to FRI.
Fire Phenomena and the Earth System: An Interdisciplinary Guide to Fire Science

Edited by Claire M. Belcher, John Wiley and Sons, 333 pages, $133.95 new and $75.00 used

This is a colorful and beautifully put together book that will appeal to most everyone. Its 16 chapters, written by fire scientists, are divided into sections on Fire Behaviour, Fire and the Biosphere, Fire and the Earth's Past and Fire and the Earth System. Authors include Samuel Abiven, Claire M. Belcher, William J. Bond, Luigi Boschetti, Margaret E. Collinson, G. Matt Davies, Stefan H. Doerr, Ian J. Glasspool, Karen Hammes, Timothy M. Lenton, James E. Lovelock, Ondrej Masek, Jeremy J. Midgley, Elsa Pastor, Eulalia Planas, Mitchell J. Power, Guillermo Rein, David P. Roy, Andrew C. Scott, Richard A. Shakesby, Albert Simeoni, Alistair M.S. Smith, Jose L. Torero, Solene Turguety and Andrew j. Watson.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($133.95/$75.00), but part of the proceeds goes to FRI.
"Painting the Landscape with Fire weaves three narratives into its masterful account of the longleaf pine forest. The fascinating story of its distinctive ecosystem supports Den Latham’s explanation of why both wildfires and controlled burns are increasingly recognized as essential to its health, while his profiles of numerous people who live and work in this forest contribute a rich cultural perspective as well as a skein of droll dialogue." John Elder, author of Reading the Mountains of Home and coeditor of The Norton Book of Nature Writing.

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($24.51/$16.74), but part of the proceeds goes to FRI.
New Book on Yarnell Hill

From Tragedy to Recovery: The Yarnell Hill Wildfire of 2013, Emad Mohit. 2015. $15.00 new and $10.86 used

I would not recommend this book for someone looking for a description of events involving the Granite Mountain Interagency Hotshot Crew. This is written by a member of the Yarnell community who provides a background to the reader of the community, the events of the fire (including the hotshot crew) from their perspective, and the post-fire recovery efforts.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($15.00/$10.86), but part of the proceeds goes to FRI.
The Fire Smart Home Handbook, Clyde Soles, Syons Press, 268 pages, $18.43 new and $4.98 used

"A good primer for anyone who wants to understand wildfires."
—Durango Herald

"No threat is left untouched in this handbook worthy of a firefighters academy library."
—Publishers Weekly

“The Fire Smart Home Handbook is essential reading for people who live in fire-prone areas because it offers practical information on how you can reduce the threat of wildfire against yourself and your neighbors.”
—Paul L. Cooke, director of the Colorado Division of Fire Prevention and Control

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($18.43/$4.98).
Imagine a force in nature more powerful than multiple atomic bombsthat was the Great Hinckley Fire of September 1, 1894. In only four hours, the fire incinerated over 400 square miles of forest, killed at least 418 settlers and an unknown number of forest-dwelling Native Americans, and destroyed six towns in a firestorm of flame. The elements that led to this unprecedented catastrophe included careless logging practices, a drought, freakish weather, and suspected sparks from passing locomotives. The story of the 1894 fire is a saga of devastation, heartbreak, heroism, survival, hope, and rebuilding that captured worldwide attention. Recently discovered photographs provide a backdrop for a fresh look at the events surrounding the disaster and the courage of the pioneers who survived to tell the tale.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($11.30/$10.06).
The Peshtigo Fire of 1871, Charles River Editors, CreateSpace Independent Publishing, 34 pages, $6.99 new and $4.44 used

“The air burned hotter than a crematorium and the fire traveled at 90 mph. I read an account of a Civil War veteran who had been through some of the worst battles of the war. He described the sound - the roar - during the fire as 100 times greater than any artillery bombardment.” – Bill Lutz

In arguably the most famous fire in American history, a blaze in the southwestern section of Chicago began to burn out of control on the night of October 8, 1871. It had taken about 40 years for Chicago to grow from a small settlement of about 300 people into a thriving metropolis with a population of 300,000, but in just two days in 1871, much of that progress was burned to the ground.

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($6.99/$4.44).
Veteran wildland firefighter Jerry Mathes II takes readers into the heart of wildfires from the forests of Idaho to the deserts of the Mexican border and reveals the camaraderie of men and women bonded by the terror and beauty and hardship of life on the fireline. He makes us live through thunderstorms scattering lightning and hail, endure the high summer heat and shivering nights where bears prowl through wilderness spike camps, and the quiet days of reflection waiting for what may come next. With a poets lyricism he tells of the life and death of friends, negotiating the bureaucracy of the federal fire service, the rivalry of competing agencies, and carrying the weight of absence from his daughters as they grow and the desperate feeling he is failing even as he seems to be succeeding. Readers live alongside him as he grows from a stunned rookie trembling under flames arcing hundreds of feet into the air to a seasoned member of the training cadre, bringing full circle his life on fire by fusing hard won field experience with the classroom to give his students the tools to work and survive in the chaotic fire world so that they can slay the dragon and the dragon does not slay them.
Plant Life on the Sandplains in Southwest Australia: A Global Biodiversity Hotspot, 2014, Hans Lambers, editor, University of Western Australia Press, 348 pages, $59.72

Southwest Australia is a region increasingly recognized for its high levels of biodiversity and endemism, and it is recognized as one of the world's top 25 'biodiversity hotspots,' based largely on its highly diverse and endemic flora. This book has been assembled with current research and understanding about the southwestern Australian flora, the greatest richness of which is on the sandplains, especially on the most nutrient-impoverished soils. To be able to conserve threatened species, the animals that depend upon them, and the habitats they live in, it is necessary to understand their functioning in the past and present in order to protect them for the future. The book is an updated version of Kwongan: Plant Life of the Sandplain (Pate & Beard, 1984), and it demonstrates how much knowledge and understanding has been gained over the past 30 years. The profound Aboriginal knowledge of kwongan is also included in this beautifully illustrated book. [Subject: Australian Studies, Natural History, Botany, Aboriginal Studies]

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($59.72).
New Book on Birds and Fire (for Young People)

Fire Birds: Valuing Natural Wildfires and Burned Forests, 2015, Sneed B. Collard III, Bucking Horse Books, 48 pages, $10.63 new and $5.92 used

In Fire Birds Valuing Natural Wildfires and Burned Forests, award-winning science author Sneed B. Collard III challenges society’s negative views toward natural forest fires. By focusing on the research of biologist Richard Hutto, Collard reveals the complex relationships between fire and thriving plant and animal communities. The book especially focuses on the heavy use of burned forests by dozens of bird species and debunks the idea that burned forests are worthless wastelands.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($10.63/$5.92).
A New Book on Smokejumping

Smokejumper: A Memoir by One of America’s Most Select Airborne Firefighters, 2015, Jason A. Ramos and Julian Smith, William Morrow Press, 256 pages, $13.00 new and $12.45 used

Forest and wildland fires are growing larger, more numerous, and deadlier every year — record drought conditions, decades of forestry mismanagement, and the increasing encroachment of residential housing into the wilderness have combined to create a powder keg that threatens millions of acres and thousands of lives every year. One select group of men and women are part of America’s front-line defense: smokejumpers. The smokejumper program operates through both the U.S. Forest Service and the Bureau of Land Management. Though they are tremendously skilled and only highly experienced and able wildland firefighters are accepted into the training program, being a smokejumper remains an art that can only be learned on the job. Forest fires often behave in unpredictable ways: spreading almost instantaneously, shooting downhill behind a stiff tailwind, or even flowing like a liquid. In this extraordinarily rare memoir by an active-duty jumper, Jason Ramos takes readers into his exhilarating and dangerous world, explores smokejumping’s remarkable history, and explains why their services are more essential than ever before.

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New Book on Fighting Fires Back in the Day


This collection of literature compiles many of the classic, timeless works that have stood the test of time and offer them at a reduced, affordable price, in an attractive volume so that everyone can enjoy them.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($4.12).
New Book on the Importance of High-Severity Fires

The Ecological Importance of Mixed-Severity Fires: Nature's Phoenix, 2015, Dominick A. DellaSala and Chad T. Hanson, Elsevier, 450 pages, $63.50

The Ecological Importance of High-Severity Fires, presents information on the current paradigm shift in the way people think about wildfire and ecosystems.

While much of the current forest management in fire-adapted ecosystems, especially forests, is focused on fire prevention and suppression, little has been reported on the ecological role of fire, and nothing has been presented on the importance of high-severity fire with regards to the maintenance of native biodiversity and fire-dependent ecosystems and species.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($63.50).
New Book on Wildland Fire


Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($190.00).
Just a Few Jumper Stories, 2015, Rod Dow, CreateSpace Independent Publishing Platform, 270 pages, $14.92

"Just a Few Jumper Stories" is a collection of 70 stories from 46 years of firefighting (32 with the smokejumpers) by Alaska Smokejumper Rod Dow. It is intended as a straightforward attempt to archive campfire stories from the life of a long time firefighter. All true tales, mostly funny incidents from his career, they portray the thrill, humor, and love of the outdoors that comes from parachuting into wild country in Alaska and throughout the mountain west.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($14.92).
Fire Call! Memoirs of a Smokejumper. 2015.

Major L. Boddicker, 324 pages, $15.00

Major Boddicker had a career with the U.S. Forest Service as a Smokejumper. He got to fires by parachuting out of WWII aircraft. His experiences leading up to smokejumping and the fires and escapades around them make a fascinating read. Boddicker’s book is a mix of serious, hilarious, and off-beat adventures.

Click on the book image above to link to your own Amazon account through FRI’s web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($15.00).

I bought the paperback, downloaded and read the preview and could not wait. Went back and bought the Kindle version. I could not put it down! Granted, I am an old smokejumper. I was a 3rd year jumper from Boise on the lower ’48 booster crew to Fairbanks in 1973. Murry nailed it. The T-Hanger, the personalities and perspectives of the smokejumpers were perfectly depicted. Every jumper has a unique experience; the random nature of the jump list, combined with the number and nature of fire calls, means that each jumper had a different mix of shared events. Smokejumpers live on the edge and thereby savor the senses more than most. If you are interested in what it was really like... this book is for you.

By Robert M Totten

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($19.99).
Blue Ridge Fire Towers, 2015, Robert Sorrell, Arcadia Publishing, 144 pages, $10.23

Fire lookout towers have graced the highest peaks in the Blue Ridge Mountains for more than a century. Early mountaineers and conservationists began constructing lookouts during the late 1800s. By the 1930s, states and the federal government had built thousands of towers around the country, many in the Blue Ridge. While technology allowed forestry services to use other means for early detection of fires, many towers still stand as a testament to their significance. Author Robert Sorrell details the fascinating history of the lookouts in the Blue Ridges forests.

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Auditoría de información en la prevención de incendios forestales, Codina Canet María Adelina and Codina Canet Víctor Manuel, 2015, Editorial Académica Española, 76 pages, $22.89

El documento aporta un análisis de los circuitos de información en la prevención de incendios forestales y el control de las quemadas agrícolas. Proporciona una panorámica del funcionamiento de los actuales canales de información en el ámbito de la Organización, analizándose los factores estructurales y las tecnologías de la comunicación. La investigación está basada en la metodología de la auditoría de información, cuyo objetivo central es analizar el flujo de información, identificar la problemática y reflexionar sobre las estrategias para mejorar la comunicación. La comarca de El Comtat es un terreno con un bosque autóctono de sierras y un Parque Natural catalogado de especial protección coexistiendo con una arraigada agricultura de montaña y cultura del fuego. El análisis concluye que se precisa una reflexión sobre los aspectos y elementos que intervienen en la gestión de la información. Las conclusiones de la investigación tienen como objetivo influir en la toma de decisiones y ser una herramienta para la reflexión sobre la situación actual del control de la información. Nuestro ánimo ha sido aportar soluciones para mejorar y corregir situaciones irregulares detectadas.

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New Book about a Firefighter's Life


“Hollye Dexter’s book made me cry and laugh—sometimes all within one paragraph. She tells her story with power and punch, and a truth that is unsettling and astonishing and ultimately uplifting. There isn't a soul who can't relate to her memoir. It is filled with revelations, humanity, poignancy, balls-out courage, and humor. She is a role model extraordinaire.”

—Amy Ferris, screenwriter (Mr. Wonderful, Funny Valentines), playwright, and author of Marrying George Clooney

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New Spanish Language Two Volume Set on the Ecology of Fire

Rodríguez Trejo Dante Arturo, 2014 and 2015, Incendios de vegetación. Su ecología, manejo e historia. (Forest fires. Ecology, management and history), Volume 1, 889 pages, and Volume 2, 811 pages, Published by Editorial Colegio de Posgraduados, the Universidad Autónoma Chapingo, Autonomous Chapingo University and the Comisión Forestal Nacional, México. 811 p., price not available

Volume one focuses on the fire ecology of Mexican ecosystems, this is most of what is known about fire regimes, fire adaptations, and fire effects on the environment, plus traditional fire management and implications for integrated fire management. All this for: pine forests, oak, forests, true fir forests, shrublands, grasslands, tropical rain forests, tropical seasonal forests, cloud forests, savannas, palm lands, mangroves, wetlands, and reforested areas. Volume two includes chapters on combustion, fire behavior, essentials of prevention, presupression, detection, dispatch, fire fighting, and mopping up, as well as prescribed burning and physical fitness of the fire fighter and the veteran. The last chapters refer to history of forest fires in Mexico: genesis of forest fires on Earth, the start of use of fire for prehistoric humans, mesoamerican cultures, Conquista through the 21st century in Mexico. Volume two includes the cited literature, with 1,600 bibliographical references, a general alphabetical index, scientific names index, glossary, as well as abstracts in English language of each one of the chapters of both volumes. In both volumes are mentioned 1,900 plant and animal species.

To order click on the book image or contact: Mr. Esteban Pérez Ramos, Editorial Colegio de Posgraduados (editorial Graduate College) esteban@fundacioncolpos.org
Actualización en métodos y técnicas para el estudio de los suelos afectados por los incendios forestales, Antonio Jordán, eds. Artemi Cerdà, 2011, Universidad de Valencia, 521 pages, $28.50

El objetivo de la investigación científica es alcanzar el conocimiento, y éste se obtiene mediante la observación y el razonamiento sistemáticamente estructurado. De ello se deducen principios y leyes. Y para ello es necesario que los científicos desarrollen y apliquen métodos y técnicas que permitan aprehender la realidad. En definitiva, se buscan procedimientos y estrategias para hallar la verdad, y hacerla visible: el método; junto a un conjunto de procedimientos y recursos que hagan posible la cuantificación: la técnica.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($28.50).
“Excellent Resource”

Creating fire is easy, yet understanding and learning to live with this friend and foe has never been easy; stopping fire is a dangerous—and often deadly—pursuit. Drawing on his experiences as an environmental historian, firefighter and life safety educator, author Einar Jensen presents an eye-opening look at fire and our history of dealing with it, then gives us the tools for being responsible and prepared—as parents and teachers, as communities and fire service professionals, and as homeowners in the wildland urban interface.

about the author

Einar Jensen, a veteran community risk reduction specialist, works for Colorado’s South Metro Fire Rescue Authority’s Preparedness Division directing their wildfire mitigation program and educating students and the public on fire and injury prevention. He served as a volunteer firefighter for several years following his environmental history studies at the University of Montana and University of Puget Sound. He is an active member of the Fire & Life Safety Educators of Colorado.

“If we don’t change our understanding of fire, our rules of engagement, or our cultural values, we should expect more tragedies and be willing to pay for them in ever-increasing volumes of dollars, blood, sweat and tears. I’m committed to preventing these tragedies.” — Einar Jensen

at-a-glance

ANCIENT FIRE, MODERN FIRE

1 Fire, Our Friend and Foe
2 Fundamentals of Fire Science
3 Youth & Firesetting: Playing with Fire Can Burn Us
4 Fire’s Dark Side: A Tool of Pain & Destruction
5 Fire’s Positive Side: A Tool of Creation
6 Rules of Fire, Rites of Fire
7 Sacred Fire
8 Risk Perception and Fire
9 Harmony with Fire
10 Will We Keep Burning?

Plus 29 Ancient Myths about the Origins of Fire, and a detailed appendix with Resources for Dealing with Youth Fire Misuse, Suggested Reading, Online Resources, Glossary, and more.

ANCIENT FIRE, MODERN FIRE

Understanding and Living With Our Friend & Foe

EINAR JENSEN

224 pg • 6 x 9 softcover • EARLY 2016
FIRE, SCIENCE, SAFETY, HISTORY

early reviews

“Jensen is able to capture both the mystical and adversarial relationship humans have with fire. By delving into the history, chemistry and possibilities of fire, readers will gain new levels of respect, awareness and safety. As a parent and an educator, I find this book very accessible for readers of all ages. I already have lesson plans swirling in my imagination. Well done!”

Hillary Bilbrey, CEO, Trademark U; Co-Owner, Inspired By Family

“This excellent resource on fire and fire safety should be on the shelves of educators and families of today’s youth, all fire service professionals, injury prevention specialists who cover fire safety, juvenile fire setter intervention specialists, and mental health professionals.”

Mara Bostian, Fire & Life Safety Educator, Kannapolis Fire Department, and author of 2 books

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New Book on the Plant Ecology of Smoke


Ecology of Plant-Derived Smoke is the continuation of the research and discussion presented in Uses & Abuses of Plant-Derived Smoke, published in 2010. Both books are the first of their kind in what is now an ever-expanding and exciting field of research. This volume focuses on the use of plant-derived smoke as a tool, used for promoting seed germination and growth.

Click on the book image above to link to your own Amazon account through FRI's web site. Amazon will contribute some of the proceeds to FRI, but you will pay no more than the normal Amazon price ($33.37).
New Book on Climate and the Paleohistory of Fire

Climate, Fire and Human Evolution, 2015, Andrew Gibson and Colin Groves, Springer, 227 pages, $87.17

This book outlines principal milestones in the evolution of the atmosphere, oceans and biosphere during the last 4 million years in relation with the evolution from primates to the genus Homo – which uniquely mastered the ignition and transfer of fire. The advent of land plants since about 420 million years ago ensued in flammable carbon-rich biosphere interfaced with an oxygen-rich atmosphere. Born on a flammable Earth surface, under increasingly unstable climates descending from the warmer Pliocene into the deepest ice ages of the Pleistocene, human survival depended on both—biological adaptations and cultural evolution, mastering fire as a necessity. This allowed the genus to increase entropy in nature by orders of magnitude. Gathered around camp fires during long nights for hundreds of thousandth of years, captivated by the flickering life-like dance of the flames, humans developed imagination, insights, cravings, fears, premonitions of death and thereby aspiration for immortality, omniscience, omnipotence and the concept of god. Inherent in pantheism was the reverence of the Earth, its rocks and its living creatures, contrasted by the subsequent rise of monotheistic sky-god creeds which regard Earth as but a corridor to heaven. Once the climate stabilized in the early Holocene, since about ~7000 years-ago production of excess food by Neolithic civilization along the Great River Valleys has allowed human imagination and dreams to express themselves through the construction of monuments to immortality. Further to burning large part of the forests, the discovery of combustion and exhumation of carbon from the Earth’s hundreds of millions of years-old fossil biospheres set the stage for an anthropogenic oxidation event, affecting an abrupt shift in state of the atmosphere-ocean-cryosphere system. The consequent ongoing extinction equals the past five great mass extinctions of species—constituting a geological event horizon in the history of planet Earth.

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248 considered wastelands by the local inhabitants because their vegetation is
249 dominated by short, annual, unpalatable grasses (principally Loudetia ton-
250 goensis, but also Andropogon pseudapricus) with only widely scattered trees
251 (Pterocarpus lucena, Combretum micranthum, and Bombax costatum). Be-
252 cause of their low ability to retain moisture, vegetation on fuga and other
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