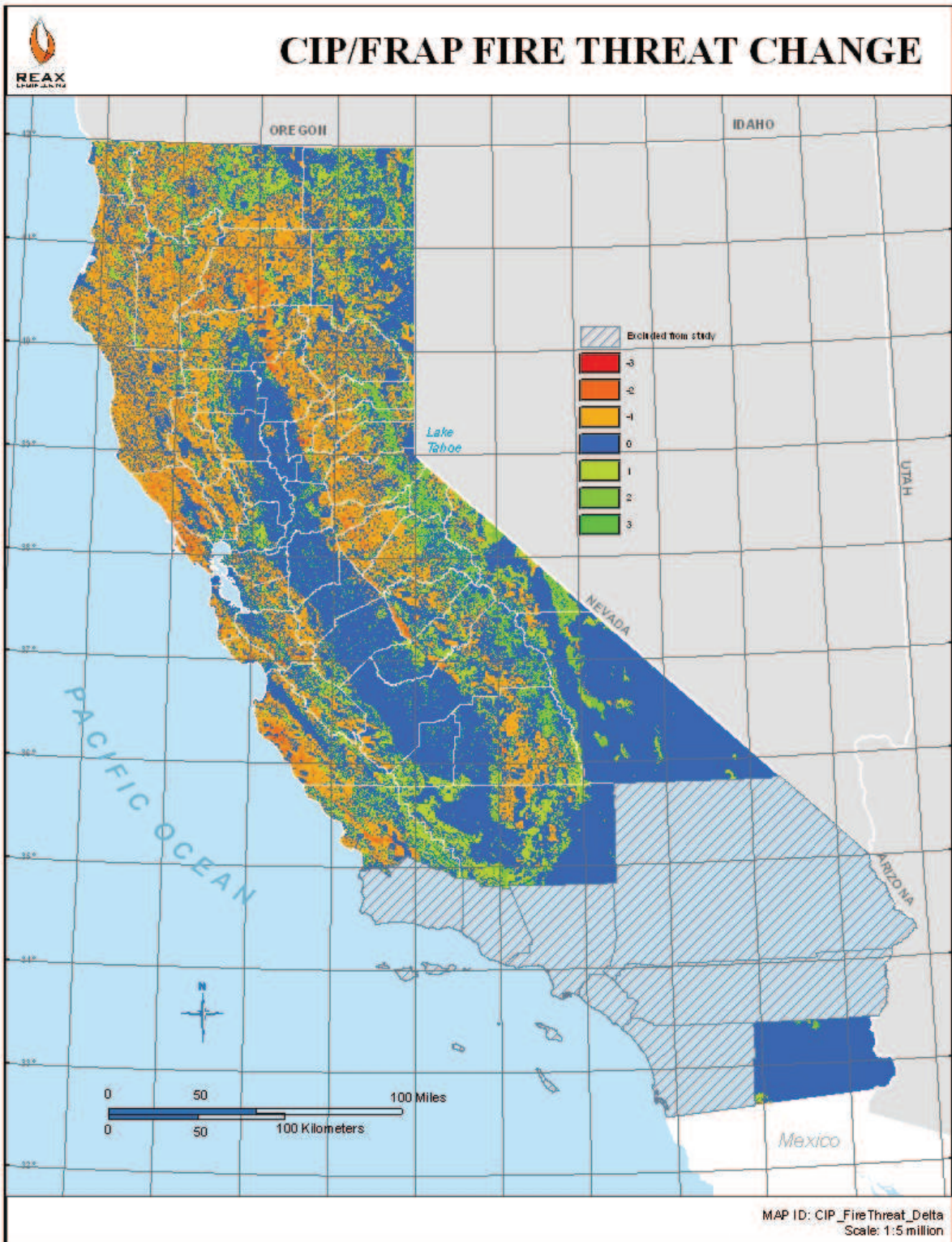


Figure 21. New CIP Fire Threat Map. (cip\_fire\_thrt.jpg)



**Figure 22. Difference between Cal Fire’s Fire Threat Map and CIP Fire Threat Map. Positive numbers indicate a higher fire threat in new CIP map compared to Cal Fire’s Fire Threat Map, and negative numbers indicate a lower fire threat in new CIP Fire Threat Map compared to Cal Fire’s Fire Threat Map. (cip\_delta.jpg)**



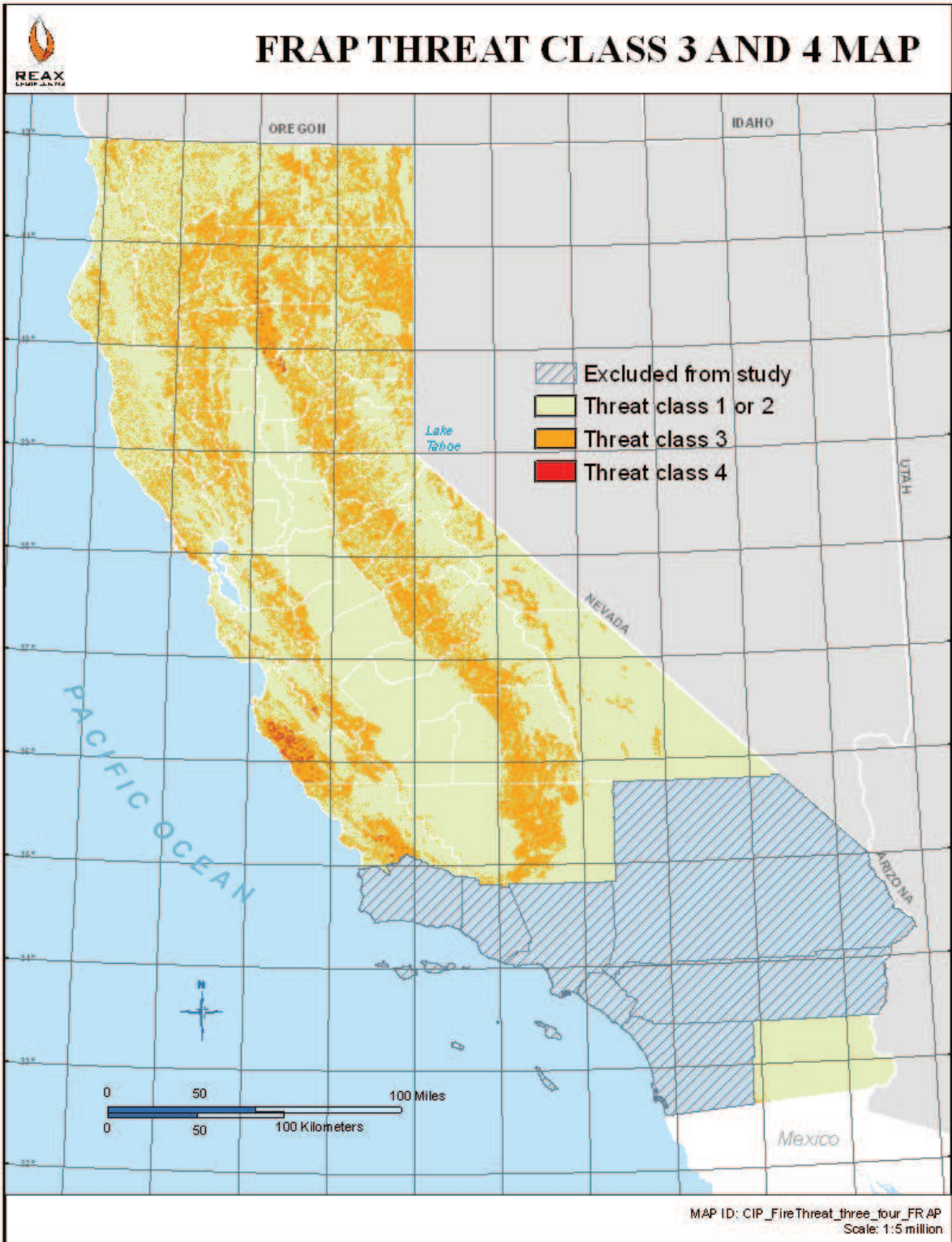


Figure 23. FRAP fire threat class three and four map. (three\_4\_frap.jpg)

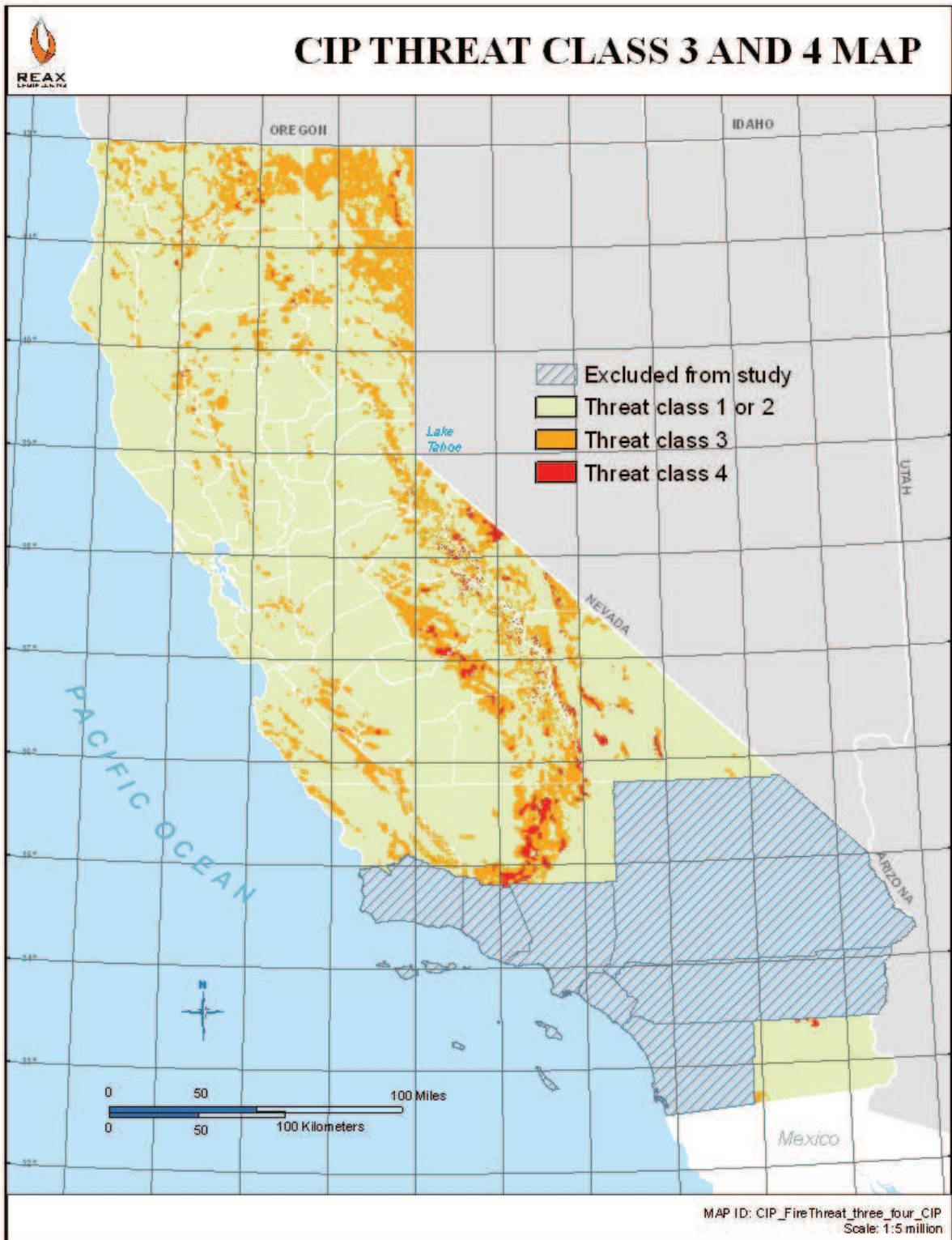


Figure 24. CIP fire threat class three and four map. (three\_4\_cip.jpg)



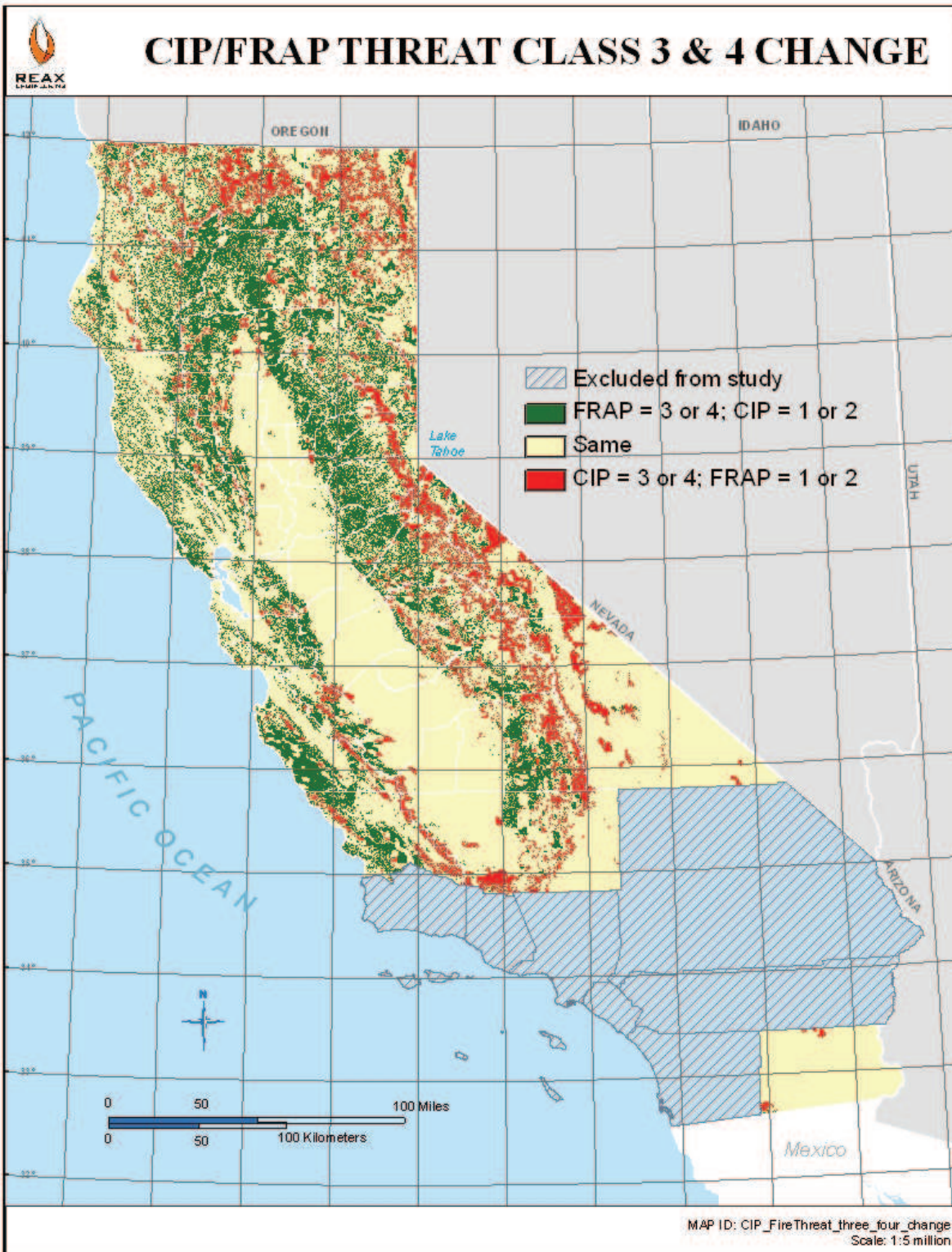


Figure 25. Difference between FRAP and CIP fire threat class 3 and 4 maps. (three\_4\_delta.jpg)

## 8.0 REFERENCES

- [1] Proposed Decision of Commissioner Simon Before the Public Utilities of the State of California, Order Instituting Rulemaking to Revise and Clarify Commission Regulations Relating to the Safety of Electric Utility and Communications Infrastructure Provider Facilities, Rulemaking 08-11-005, Agenda ID #8714 (Revision 1), Item #52, 8/20/2009. Retrieved April 6, 2010 from: [http://docs.cpuc.ca.gov/word\\_pdf/AGENDA\\_DECISION/105872.pdf](http://docs.cpuc.ca.gov/word_pdf/AGENDA_DECISION/105872.pdf)
- [2] [http://frap.cdf.ca.gov/webdata/maps/statewide/fhthreat\\_map.pdf](http://frap.cdf.ca.gov/webdata/maps/statewide/fhthreat_map.pdf) (retrieved April 6, 2010)
- [3] <http://frap.cdf.ca.gov/webdata/data/statewide/fthrt.g.zip> (retrieved April 6, 2010)
- [4] [http://frap.cdf.ca.gov/webdata/maps/statewide/fhszs\\_map.pdf](http://frap.cdf.ca.gov/webdata/maps/statewide/fhszs_map.pdf) (retrieved April 6, 2010)
- [5] [http://frap.cdf.ca.gov/assessment2003/Chapter3\\_Quality/wildfiretrends\\_2.pdf](http://frap.cdf.ca.gov/assessment2003/Chapter3_Quality/wildfiretrends_2.pdf) (retrieved April 6, 2010)
- [6] <http://frap.cdf.ca.gov/webdata/data/statewide/frot.gn.zip> (retrieved April 6, 2010)
- [7] [http://frap.cdf.ca.gov/data/fire\\_data/fuel\\_rank/index.html](http://frap.cdf.ca.gov/data/fire_data/fuel_rank/index.html) (retrieved April 6, 2010)
- [8] Andrews, P.L., Bevins, C.D., and Seli, R.C., "BehavePlus Fire Modeling System, Version 4.0, User's Guide," US Department of Agriculture Forest Service Rocky Mountain Research Station General Technical Report RMRS-GTR-106WWW Revised July, 2008.
- [9] [http://frap.cdf.ca.gov/webdata/maps/statewide/fmod\\_map.pdf](http://frap.cdf.ca.gov/webdata/maps/statewide/fmod_map.pdf) (retrieved April 6, 2010)
- [10] <http://frap.cdf.ca.gov/webdata/data/statewide/fmod.g.zip> (retrieved April 6, 2010)
- [11] "Characterizing the Fire Threat to Wildland-Urban Interface Areas in California," CDF Fire and Resource Assessment Program. [http://frap.cdf.ca.gov/projects/wui/525\\_CA\\_wui\\_analysis.pdf](http://frap.cdf.ca.gov/projects/wui/525_CA_wui_analysis.pdf) (retrieved on April 6, 2010)
- [12] Mitchell, J.W., "Power Lines and Catastrophic Wildland Fire in Southern California," *Proceedings of Fire and Materials 2009*, 2009.
- [13] National Electrical Safety Code, Accredited Standards Committee, C2-2007, IEEE, 3 Park Avenue, New York, NY 10016-5997, USA, Secretariat Institute of Electrical and Electronics Engineers, Inc. Approved 20 April 2006, Approved 16 June 2006, American National Standards Institute.
- [14] State of California Rules for Overhead Electric Line Construction, Prescribed by the Public Utilities Commission of the State of California, General Order No. 95, January 2006.
- [15] ASCE 7-02, Minimum Design Loads for Buildings and Other Structures, American Society of Civil Engineers, Dec, 2002
- [16] Reliability Based Design of Utility Pole Structures, ASCE Manuals and Reports on Engineering Practice No. III, American Society of Civil Engineers, Structural Engineering Institute, Edited by Habib J. Dagher, 2006.
- [17] American National Standards Institute, ANSI 05.1-2002, National Standard for Wood Products, Specifications and Dimensions. 2002, Washington, DC 20036.
- [18] Feuerstein, B., Groenemeijer, P., Dirksen, E., Hubrig, M., Holzer, A.M., and Dotzek, N., "Towards an Improved Wind Speed Scale vs. Damage Description Adapted for Central Europe," *Atmospheric Research* (in press, 4/17/2010).
- [19] Schroeder, M.J., "Ignition probability," USDA Forest Service. Fort Collins, CO. RMRS unpublished report, 1969.
- [20] Chuvieco, E., Aguado, I., and Dimitrakopoulos, A.P., "Conversion of fuel moisture content values to ignition potential for integrated fire danger assessment," *Canadian Journal of Forest Research* **34**: 2284-2293 (2004).
- [21] Dimitrakopoulos, A.P., Mitsopoulos, I.D., and Gatoulas, K., "Assessing ignition probability and moisture of extinction in a Mediterranean grass fuel," *International Journal of Wildland Fire* **19**: 29-34 (2010).
- [22] Ellis, P.F., "The Aerodynamic and Combustion Characteristics of Eucalypt Bark – A Firebrand Study," PhD Dissertation, Australian National University, Canberra, 2000.

- [23] Hodur, R.M., “The Naval Research Laboratory’s coupled ocean/atmosphere mesoscale prediction system (COAMPS),” *Monthly Weather Review* **125**: 1414-1430 (1997).
- [24] Moritz, M.A., Moody, T.J., Krawchuk, M.A., Hughes, M., and Hall, A., “Spatial variation in extreme winds predicts large wildfire locations in chaparral ecosystems,” *Geophysical Research Letters* **37** L04801 (2010).
- [25] Anderson, H.E., “Aids to Determining Fuel Models for Estimating Fire Behavior,” United States Department of Agriculture Forest Service, Intermountain Forest and Range Experiment Station, General Technical Report INT-122, April 1982.
- [26] Simard, A.J., “The Moisture Content of Forest Fuels – 1. A Review of the Basic Concepts,” Canadian Department of Forest and Rural Development, Forest Fire Research Institute, Information Report FF-X-14, Ottawa, Ontario, 47 pp.
- [27] Goodrick, S.L., “Modification of the Fosberg fire weather index to include drought,” *International Journal of Wildland Fire* **11**: 205-211 (2002).
- [28] Burgan, R.E., “Estimating Live Fuel Moisture for the 1978 National Fire Danger Rating System,” USDA Forest Service Research Paper INT-226, July 1979.
- [29] Jolly, W.M., “Sensitivity of a surface fire spread model and associated fire behaviour fuel models to changes in live fuel moisture,” *International Journal of Wildland Fire* **16**: 503-509 (2007).
- [30] Stephens, S.L., Weise, D.R., Fry, D.L., Keiffer, R.J., Dawson, J., Koo, E., Potts, J., and Pagni, P.J., “Measuring the Rate of Spread of Chaparral Prescribed Fires in Northern California,” *Fire Ecology* **4**: 74-86 (2008).
- [31] Bevins, C.D., “fireLib User Manual and Technical Reference,” Systems for Environmental Management, 1996.