

Ecological APPLICATIONS A PUBLICATION OF THE ECOLOGICAL SOCIETY OF AMERICA



<u>Communications</u> Generalized provisional seed zones for native plants

Invited Feature—Protected Areas as Socioecological Systems

Elevated elephant density does not improve ecotourism opportunities

<u>Articles</u>

Food predictability determines space use of endangered vultures: implications for management of supplementary feeding Reconstructing relative humidity from plant δ¹⁸O and δD as deuterium deviations from the global meteoric water line



Ecological Applications

VOL. 24 • NO. 5 • JULY 2014

ISSN 1051-0761

CONTENTS

Communications

913

Generalized provisional seed zones for native plants • ANDREW D. BOWER, J. BRADLEY ST. CLAIR, AND VICKY ERICKSON

Invited Feature—Protected Areas as Socioecological Systems

920

Elevated elephant density does not improve ecotourism opportunities: convergence in social and ecological objectives • KRISTINE MACIEJEWSKI AND GRAHAM I. H. KERLEY

Articles

927

Demography of a reintroduced population: moving toward management models for an endangered species, the Whooping Crane • SABRINA SERVANTY, SARAH J. CONVERSE, AND LARISSA L. BAILEY

938

Food predictability determines space use of endangered vultures: implications for management of supplementary feeding • PASCUAL LÓPEZ-LÓPEZ, CLARA GARCÍA-RIPOLLÉS, AND VICENTE URIOS

950

Using vertebrate prey capture locations to identify cover type selection patterns of nocturnally foraging Burrowing Owls • ALAN MARSH, ERIN M. BAYNE, AND TROY I. WELLICOME

960

Reconstructing relative humidity from plant $\delta^{18}O$ and δD as deuterium deviations from the global meteoric water line • STEVEN L. VOELKER, J. RENÉE BROOKS, FREDERICK C. MEINZER, JOHN RODEN, ANNA PAZDUR, SLAWOMIRA PAWELCZYK, PETER HARTSOUGH, KEIRITH SNYDER, LENKA PLAVCOVÁ, AND JIŘÍ ŠANTRŮČEK

976

Repeated prescribed fires decrease stocks and change attributes of coarse woody debris in a temperate eucalypt forest · CRISTINA APONTE, KEVIN G. TOLHURST, AND LAUREN T. BENNETT

990

More than the sum of the parts: forest climate response from joint species distribution models • JAMES S. CLARK, ALAN E. GELFAND, CHRISTOPHER W. WOODALL, AND KAI ZHU

1000

Landscape genetic connectivity in a riparian foundation tree is jointly driven by climatic gradients and river networks • SAMUEL A. CUSHMAN, TAMARA MAX, NASHELLY MENESES, LUKE M. EVANS, SHARON FERRIER, BARBARA HONCHAK, THOMAS G. WHITHAM, AND GERARD J. ALLAN

1015

Spatially explicit modeling of 1992-2100 land cover and forest stand age for the conterminous United States • TERRY L. SOHL, KRISTI L. SAYLER, MICHELLE A. BOUCHARD, RYAN R. REKER, AARON M. FRIESZ, STACIE L. BENNETT, BENJAMIN M. SLEETER, RACHEL R. SLEETER, TAMARA WILSON, CHRIS SOULARD, MICHELLE KNUPPE, AND TRAVIS VAN HOFWEGEN

1037

Climate, fire size, and biophysical setting control fire severity and spatial pattern in the northern Cascade Range, USA • C. ALINA CANSLER AND DONALD MCKENZIE

1057

Can fire atlas data improve species distribution model projections? • SHAWN M. CRIMMINS, SOLOMON Z. DOBROWSKI, ALISON R. MYNSBERGE, AND HUGH D. SAFFORD

1070

Morphological characteristics of urban water bodies: mechanisms of change and implications for ecosystem function • M. K. STEELE AND J. B. HEFFERNAN

1085

Relationship of habitat variability to population size in a stream fish • JACQUELYN L. A. WOOD, SEBASTIAN BELMAR-LUCERO, JEFFREY A. HUTCHINGS, AND DYLAN J. FRASER

Contrasting evolutionary demography induced by fishing: the role of adaptive phenotypic plasticity • MANUEL HIDALGO, ESBEN M. OLSEN, JAN OHLBERGER, FRAN SABORIDO-REY, HILARIO MURUA, CARMEN PIÑEIRO, AND NILS C. STENSETH

Contents continued on inside of back cover

