

BOOK



DROUGHT COUNTRY : THE DRY TIMES THAT HAVE SHAPED AUSTRALIA

Godfree RC (February 3, 2025) CSIRO Publishing, 304 pages https://www.publish.csiro.au/book/7989

Weaving historical accounts with scientific theory, *Drought Country* is an exploration of the most brutal Australian droughts of the past three centuries, taking you on a journey through topics as varied as climate mythmaking, colonialism, smallpox, economic depression, a 'dust bowl', heatwaves, ecosystem collapse, and the coming of the second 'age of coal'. Written for a general audience, the book contains images of drought impacts on human societies and landscapes collected from a broad range of historical and contemporary sources, and maps of Australia's greatest droughts from the mid-1700s until present.

Methods in Ecology and Evolution

Cover article - Methods in Ecology and Evolution

SELECTED SCIENTIFIC PUBLICATIONS



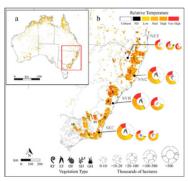
Rapid data collection, technology & software development

RAPID ECOLOGICAL DATA COLLECTION FROM 360-DEGREE IMAGERY USING VISUALISATION AND IMMERSIVE SAMPLING IN THE R PANNOTATOR PACKAGE

Godfree RC, Knerr N (2025) Methods in Ecology and Evolution

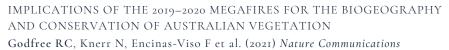
Knerr N, Godfree RC (2024) pannotator: Visualisation and Annotation of 360 Degree Imagery. The Comprehensive R Archive Network (CRAN); DOI: 10.32614/CRAN.package.pannotator

https://nunzioknerr.github.io/pannotator_website/



Spatial modelling bushfire impacts

Drought, fire, biogeography, impact assessment



HISTORICAL RECONSTRUCTION UNVEILS THE RISK OF MASS MORTALITY AND ECOSYSTEM COLLAPSE DURING PANCONTINENTAL MEGADROUGHT Godfree RC, Knerr N, Godfree D et al. (2019) *PNAS*

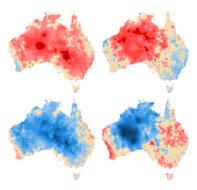
SYNCHRONOUS BOOM-BUST CYCLES IN CENTRAL AUSTRALIAN RODENTS AND MARSUPIALS IN RESPONSE TO RAINFALL AND FIRE Bennison K, Dickman CR & Godfree R (2018) Journal of Mammalogy

EMPIRICAL EVIDENCE OF FIXED AND HOMESTATIC PATTERNS OF POLYPLOID ADVANTAGE IN A KEYSTONE GRASS EXPOSED TO DROUGHT AND HEAT STRESS

Godfree RC et al. (2017) Royal Society Open Science

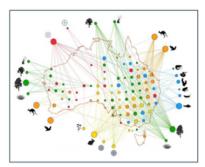
NONINDIGENOUS PLANT ADVANTAGE IN NATIVE AND EXOTIC AUSTRALIAN GRASSES UNDER EXPERIMENTAL DROUGHT, WARMING, AND ATMOSPHERIC CO2 ENRICHMENT

Godfree RC et al. (2013) Biology



Climate mapping

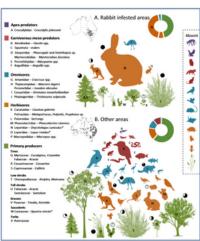
Original design of system for CO2 enrichment and drought simulation



Network analysis of historical drought impacts



Water management research in Barmah Forest



Trophic structure of drought impacts

SELECTED SCIENTIFIC PUBLICATIONS



Risk assessment

POLYPLOIDY AFFECTS THE SEED, DORMANCY AND SEEDLING CHARACTERISTICS OF A PERENNIAL GRASS, CONFERRING AN ADVANTAGE IN STRESSFUL CLIMATES

Stevens A, Nicotra A, Godfree R & Guja L (2020) Plant Biology

WHY NON-NATIVE GRASSES POSE A CRITICAL EMERGING THREAT TO BIODIVERSITY CONSERVATION, HABITAT CONNECTIVITY AND AGRICULTURAL PRODUCTION IN MULTIFUNCTIONAL RURAL LANDSCAPES

Godfree RC, Firn J et al. (2017) Landscape Ecology

ECOLOGICAL RISK ASSESSMENT OF TRANSGENIC PASTURE PLANTS: A COMMUNITY GRADIENT MODELLING APPROACH

Godfree RC et al. (2004) Ecology Letters



Environmental health and water management

ENVIRONMENTAL WATER ALLOCATIONS ARE INSUFFICIENT TO CONTROL AND INVASIVE WETLAND PLANT: EVIDENCE FROM A HIGHLY REGULATED FLOODPLAIN WETLAND

Vivian L... and Godfree RC (2014) Journal of Applied Ecology

WETLAND PLANT GROWTH UNDER CONTRASTING WATER REGIMES ASSOCIATED WITH RIVER REGULATION AND DROUGHT: IMPLICATIONS FOR ENVIRONMENTAL WATER MANAGEMENT

Vivian LM, Godfree RC et al. (2014) Plant Ecology

RELATIONSHIPS BETWEEN SEED BANK COMPOSITION AND AN INVASIVE PLANT IN A FLOODPLAIN WETLAND OF THE MURRAY-DARLING BASIN

Vivian L & Godfree RC (2020) Australian Journal of Botany

RELATIONSHIPS BETWEEN ARCEUTHOBIUM AMERICANUM AND THE STRUCTURE OF PINUS CONTORTA VAR. MURRAYANA STANDS IN CENTRAL OREGON.

Godfree RC et al. (2003) Plant Ecology

THE EFFECTS OF DWARF MISTLETOE, WITCHES' BROOMS, STAND STRUCTURE, AND SITE CHARACTERISTICS ON THE CROWN ARCHITECTURE OF LODGEPOLE PINE IN OREGON

Godfree RC et al. (2002) Canadian Journal of Forest Research



Ecology and evolution

AWN LENGTH VARIATION IN AUSTRALIA'S MOST WIDESPREAD GRASS, THEMEDA TRIANDRA, ACROSS ITS DISTRIBUTION
Cavanagh AM, Godfree RC & Morgan J (2024) Australian Journal of Botany

SURFACING BEHAVIOUR AND ECOLOGY OF THE MARSUPIAL MOLE (NOTORYCTES TYPHLOPS) AT ULURU-KATA TJUTA NATIONAL PARK Bennison K, ... Godfree R et al. (2014) Australian Mammalogy