

SUNDAY 13 MARCH 2011			
TIME	EVENT		DETAILS/VENUE
14:00 to 17:30	Registration		Mdluli Conference Centre All delegates are requested to bring an electronic copy of their presentation please. These will be loaded into the correct slot on the programme to prevent any delays to presentations
18:00	DINNER		Skukuza Golf Club: Registered delegates only
MONDAY 14 MARCH 2011			
CHAIR	TIME	PRESENTER	TITLE
Judith Botha	08:00	Botha JM	Welcome
	08:05	Stirzaker R	Contested causation
	08:45	Botha JM	From 2000 into the future
DRIVERS OF HETEROGENEITY: ABIOTIC DRIVERS			
CLIMATE			
Bob Scholes	09:00	Moncrieff G, Bond WJ , Diaz S <i>et al</i>	Testing the importance of climate in controlling the distribution of savannas in South Africa vs. Argentina
	09:15	Sinden L & Scholes RJ	What drives leaf-out, peak greenness and leaf-loss in the Lowveld savannas?
	09:20	Stevens N , Erasmus BFN, Archibald S	A regional analysis of woody plant expansion in South African savannas
	09:25	Kulmatiski A, Beard KH & Mazzacavallo M	Savanna structure with climate change: a results from a precipitation manipulation experiment
	09:40	Discussion	
10:00 Tea			
HYDROLOGY			
Eddie Riddell	10:30	Colvin C , Everson, C Gush M <i>et al</i>	Groundwater dependent ecosystems in the Northern Kruger park: new insight into the complexity of plant water use in riparian zones and the mopane veld
	10:45	Lorentz SA , Riddell ES Hachmann J <i>et al</i>	Catena Hydrological Fluxes on Granite Hillslopes and Links to Distinct Vegetation Guilds within the Herbivore and Fire Exclusion Experiments in the Kruger National Park, South Africa
	11:00	Hedin LO , February E, Govender N <i>et al</i>	Interactions of nutrients, rainfall and herbivory in KNP: A large-scale experiment
	11:15	Perez-Falcon G, Kiker G , Muñoz-Carpena R <i>et al</i>	Modeling Landscape Processes to Explore Water as a Limiting Factor in Savanna Ecosystems
	11:20	Merbold L , Kutsch WL, Scholes RJ <i>et al</i>	Ecosystem water fluxes across Sub-Saharan savanna ecosystems
	11:25	O'Donnell FC & Caylor KK	Species-level Root Dimorphism Indicates Savanna Trees and Shrubs Employ Varying Water Use Strategies
	11:30	Nickless A & Scholes RJ	The Malopeni flux site: carbon and water fluxes in a <i>mopane</i> -dominated savanna
	11:35	Accatino F , Vezzoli R , De Michele C <i>et al</i>	Assessing the role of disturbances in the tree-grass dynamics of savanna ecosystems using a simple ecohydrologic model
11:40	Discussion		
12:00 Lunch			
FIRE			
Navashni Govender	13:30	Andersen A , Woinarski J & Williams D	Burning for biodiversity in Australian tropical savannas
	13:45	Parr C , Asner GP, Davies A <i>et al</i>	Fire, vegetation structure & biodiversity
	14:00	Smit IPJ , Smit CF, MacFadyen S <i>et al</i>	Rainfall, geology and landscape position drive large-scale spatio-temporal fire pattern heterogeneity in an African savanna
	14:15	Koerner S & Collins S	Fire, grazing, and patch structure: Do South African and American grasslands respond in the same way
	14:30	De Michele C , Accatino F , Vezzoli R <i>et al</i>	Resource competition and disturbance in a tree-grass-soil water model
	14:35	Riddell ES , Khan A, Mauck B <i>et al</i>	An assessment of the impact of long-term fire manipulations on in-situ soil hydrology in the Kruger National Park Experimental Burn Plots
14:40	Discussion		
15:00 Tea			
SOIL NUTRIENTS			
Alan Andersen	15:30	Ramoelo A , Skidmore AK, Schlerf M <i>et al</i>	Towards regional mapping of grass nutrients using remote sensing in Greater Kruger National Park
	15:35	Conradie EH , Pienaar JJ, Beukes JP <i>et al</i>	Estimated total nitrogen deposition and rainwater composition measured in the Kruger National Park
	15:50	Holdo RM , Mack MC, Arnold S <i>et al</i>	Direct and Indirect effects of fire and herbivores on plant-available N and P and soil C pools in Kruger National Park
	16:05	Khomo L , Trumbore S, Chadwick O <i>et al</i>	Persistence and source of carbon in different soils of Kruger
	16:20	Discussion	
18:00	GALA DINNER		Skukuza Golf Club: Registered delegates only

TUESDAY 15 MARCH 2011

DRIVERS OF HETEROGENEITY: BIOTIC DRIVERS

HERBIVORES AS DRIVERS

Rina Grant	08:00	Asner GP, Levick SR, Loarie SR <i>et al</i>	Elephants and treefalls in African savanna
	08:15	Levick SR, Asner GP, Loarie SR <i>et al</i>	The rate and spatial pattern of large tree loss in granitic savanna
	08:30	Taylor R, Scogings P, Ward D <i>et al</i>	How do marula trees respond to elephant browsing?
	08:45	Lagendijk G, Page B & Slotow R	Woody vegetation communities and elephant impact at the hillslope-scale
	09:00	Teren G, Owen-Smith N & Erasmus BFN	Filling in the gaps: spatial dynamics of tree regeneration and shrub encroachment in elephant disturbed woodlands
	09:15	Scogings P	A trait-based model of woody plant responses to browsing
	09:30	Coetsee C & Wigley BJ	Interactions between termites, trees and fire: shenanigans in the Makhohlolo enclosure
	09:45	Ayres P, Siebert F & Siebert S	Temporal changes in woody riparian vegetation composition along a section of the Sabie River, Kruger National Park
	10:00	Mbenoun M, Begoudé B, Aimé D <i>et al</i>	Diversity of <i>Ceratocystis</i> species and their nitidulid beetle vectors on tree wounds in Kruger National Park
10:05	Discussion		

10:25 Tea

HERBIVORE RESPONSES TO HETEROGENEITY

INFLUENCE OF RESOURCES

Sam Ferreira	10:55	Treydte A, Angassa A & Bucher F	Excluding savanna herbivores – what can we learn for trees and grasses?
	11:10	Grant CC	What makes a forage patch more attractive to herbivores and what are the consequences?
	11:25	Yoganand K & Owen-Smith N	Seeplines act as 'key resource areas' for large grazers in the granitic landscapes of central Kruger
	11:40	Macindoe M, Parrini F & Erasmus BFN	Vegetation characteristics of foraging areas used by African buffalo (<i>Syncerus caffer</i>)
	11:45	Pretorius Y, de Boer WF, van der Waal C <i>et al</i>	Soil nutrient status determines how elephant utilize trees and shape environments
	12:00	Selier J, Page B & Slotow R	Range shifts in elephant distribution: Processes, drivers, and relevance to management
	12:15	Boyers M, Parrini F & Erasmus B	Do zebra (<i>Equus quagga</i>) select for greener grass within the foraging area?
	12:30	Owen-Smith N	How sable find holes: inter-specific spatial partitioning
12:45	Discussion		

13:00 Lunch

INFLUENCE OF PREDATORS

Paul Funston	14:30	Fritz H, Pays O, Blanchard P, Valeix M <i>et al</i>	How do medium-size herbivores adjust their vigilance with food biomass? A field experiment with impala
	14:45	Pays O, Sirot E & Fritz H	Collective vigilance in the greater Kudu: towards a better understanding of the synchronisation patterns
	15:00	Periquet S, Valeix M, Loveridge AJ <i>et al</i>	Individual vigilance of African herbivores while drinking: the role of immediate predation risk and context
	15:15	Thaker M, Vanak AT, Owen CR <i>et al</i>	Predation Risk in a Woodland Savanna: Grouping as an antipredator strategy
	15:30	Loarie S, Tambling C & Asner G	Lion Hunting Behavior and Vegetation Structure in an African Savanna
	15:45	Makin D	How does perceived predation risk affect the utilisation of space by Vervet Monkeys (<i>Cercopithecus aethiops</i>)?
15:50	Discussion		

16:00 Tea

18:00 DINNER

Skukuza Golf Club: Registered delegates only

WEDNESDAY 16 MARCH 2011

HUMANS AS DRIVERS OF HETEROGENIETY: BOUNDARIES AND FENCE EFFECTS RELATED TO DIFFERENT LAND USES

ASSOCIATED DISEASE RISKS

Herve Fritz	07:30	de Garine-Wichatitsky M , Miguel E, Cornélis D <i>et al</i>	Contacts between domestic cattle and African buffalo in the Great Limpopo Transfrontier Conservation Area: potential for disease spread
	07:45	Caron A , Miguel E, Jori F <i>et al</i>	Prevalence of diseases at different wildlife/livestock interfaces in the Great Limpopo Trans Frontier Conservation Area
	08:00	Caron A , Etter E, Jori F <i>et al</i>	Environmental and ecological drivers of Foot-and-Mouth disease outbreaks at the wildlife/livestock interface in the GLTFCA
	08:05	Ferreira SM , Govender D & Herbst M	Risks to iconic Kalahari Lions
	08:20	Van Hooft P , Greyling BJ, Getz WM <i>et al</i>	Increased mortality and reduced fecundity in African buffalo due to bovine tuberculosis: an analysis of selection pressures using microsatellite data
	08:25	Discussion	

CONFINING ANIMALS MOVEMENTS AND ASSOCIATED ECOSYSTEM PROCESSES

Marna Herbst	08:40	van der Meer E , Rasmussen G & Fritz H	Why African wild dogs in Hwange National Park leave the safety of a protected area: testing the ecological trap hypothesis
	08:55	Mduma S, Sinclair T, Janse van Rensburg S <i>et al</i>	Lessons for ecosystem conservation: What do boundaries mean for ecological processes and conservation strategies?
	09:10	Vanak AT , Thaker M & Slotow R	Edge-effects of fences on elephant movement patterns: Implications for small reserves
	09:25	Davies-Mostert HT , Mills MGL, Funston PJ <i>et al</i>	Wild dogs and lions in isolated habitat patches: do fences exacerbate interference competition?
	09:35	Ikanda D , Røskaft E & Packer C	Patterns of man-eating behaviour among lion groups in south-eastern Tanzania
	10:50	Discussion	

10:05 Tea

EFFECTS OF DIFFERENT LAND USES ON BIODIVERSITY AND HETEROGENEITY

Barend Erasmus	10:35	Guerbois C , Chapanda E & Fritz H	Towards co-viability: combining field approaches for understanding coexistence between subsistence farmers and wildlife at the edge of Hwange National Park
	10:50	Lötter MC	A silver bullet? The utility of the MBCP in guiding biodiversity priorities within and outside protected areas
	11:05	Southworth J , Gibbes C, Cui X <i>et al</i>	On the broad scale relationships between changes in vegetation and precipitation for southern Africa, and linkages to land use, management and conservation
	11:20	Coetzer KL , Witkowski ETF & Erasmus BFN	Land-cover change and fragmentation: spatial implications for biodiversity conservation in the Kruger to Canyons Biosphere Reserve
	11:35	Matsika R , Erasmus BFN & Twine W	Double jeopardy: the dichotomy of the socio-economic drivers and the sustainability of fuelwood use in rural South Africa
	11:40	Colgan MS , Swemmer AM & Asner GP	Directly Harvesting Aboveground Woody Biomass near Kruger National Park
	11:55	Orban B & Van Rooyen J	The impact of different land-use options on natural resource availability as determined for Manyeleti, Andover and the Mnisi tribal area
	12:10	Kutsch WL , Merbold L, Scholes RJ <i>et al</i>	Will savannas survive outside the parks? A lesson from Zambia
	12:25	Monadjem A & Botha AJ	Results from the analysis of re-sightings data of tagged vultures from the Lowveld-region of South Africa
12:30	Discussion		

12:40 Lunch

AFTERNOON FREE TIME

18:00 DINNER

Skukuza Golf Club: Registered delegates only

THURSDAY 17 MARCH 2011

SHARING BENEFITS FROM CONSERVATION AREAS

Harry Biggs	08:00	Classen M	The mandate of conservation agencies, the role of protected areas and their value to adjacent communities – Lessons from Venda
	08:15	Twine W	Trends and transitions in household use of biodiversity in a rural district adjacent to the Kruger National Park over the last twenty years
	08:30	Saunders J, Twine W, & Erasmus BFN	Patterns and drivers of long term spatio-temporal change in woody vegetation cover in a South African rural savanna landscape
	08:45	Nortje K	"We cannot run out of natural resources – if we run out of it we would be dead" - exploring the potential impact of local beliefs on biodiversity conservation management.
	09:00	Child B, Muyengwa S, Mupeta P et al	Collaborative, adaptive science: using the "Governance Dashboard" to understand and improve community governance in CBNRM Programmes
	09:15	Scheepers K, Swemmer L & Vermeulen WJ	Applying adaptive management in resource use in South African National Parks (SANParks)
	09:30	Swemmer LK, Mmatho W, Mdungasi P et al	The socio-economic impact of Mopane worm (<i>Imbrasia belina</i>) harvesting in the Kruger National Park
	09:45	Discussion	

10:00 Tea

MANAGEMENT OUTCOMES

RIVERINE SYSTEMS AND WETLANDS

Dirk Roux	10:30	Sithole H, Todd C & Thirion C	TPCs and Ecological Status of Macroinvertebrates in Reaches of Crocodile River within Kruger National Park
	10:45	Botha H, van Hoven W & Guillette LJ Jr	The Nile Crocodile populations of the Olifants River System and the Loskop Dam Nature Reserve in Mpumalanga, South Africa
	10:50	Huchzermeyer KDA	Pansteatitis in <i>Clarias gariepinus</i> in the Kruger National Park is not restricted to the Olifants Gorge
	11:05	Dixon R, Huchzermeyer D & Espach H	Baseline metal levels in <i>Clarias gariepinus</i> & <i>Crocodylus niloticus</i> in the Kruger National Park in relation to pansteatitis
	11:10	Woodborne S, Hall G, Govender D et al	Isotopic time series for crocodile claws: On the timing of food chain turbations
	11:25	Botha AJ & Ronaldson SG	Results of four years of surveys for Pel's Fishing Owl and other piscivorous birds along the Olifants River in the Kruger National Park
	11:40	Eksteen JJ	Hippo research and management in the Mpumalanga Lowveld Rivers
	11:45	Grundling AT, Grundling P, Snyders M et al	The classification of the Kruger National Parks wetlands and its role in wetland prioritisation for rehabilitation
	12:00	Grundling P, Price JS, Grootjans AP et al	Managing Mires: Comparing the impact of landuse and conservation management on peatland of the iSimangaliso Wetland Park, Marakele and Kruger National Parks
12:15	Discussion		

VEGETATION PATTERNS AND COMPOSITION

Hugo Bezuidenhout	12:25	Helm CV & Witkowski ETF	Stem diameter growth rates of <i>Sclerocarya birrea</i> subsp. <i>caffra</i> (marula) in protected populations inside and outside the Kruger National Park
	12:40	Zizka A & Higgins SI	What is the difference between a tree and a shrub? A life-history based approach
	12:45	Cowell C	Re-introduction of Extinct Wild Plant Species into Table Mountain National Park
	12:50	Williams N	Threatened Species of the SANParks Cape Cluster Parks
	12:55	Mgqatsa N, Palmer AR, Finca A et al	Survey of the veld condition in the arid savanna of the southern Kalahari
	13:00	Ebrahim Z & Fisher, RM	Producing a Species Database for Cape Cluster Parks
	13:05	Discussion	

13:15 Lunch

MONITORING MANAGEMENT OUTCOMES			
VEGETATION COMPOSITION AND BIOMASS			
Izak Smit	14:40	Page B & Slotow R	Approaches to development of a model of community change for evaluating management actions
	14:55	Getz WM	A Biomass Flow Approach To Modeling Consumer-Resource Interactions With Application To Anthrax-Carcass Subsidies of Scavengers In Etosha
	15:00	Verstraete MM & Scholes RJ	A new remote sensing dataset for the lowveld
	15:05	Cho MA, Naidoo L, Mathieu R <i>et al</i>	Mapping large trees species in savannas using an integrated LiDAR and hyperspectral system
	15:10	Main R, Cho MA & Mathieu R	Mapping large scattered savanna trees using shadow properties and multipectral imagery
	15:15	Mathieu R, Main R, Leblon B <i>et al</i>	Polarimetric RADARSAT-2 C-band SAR imagery to map woody vegetation structure in African savannas
15:20 Tea			
ANIMAL MOVEMENT AND DISTRIBUTION			
Izak Smit (cont.)	15:50	Morgan S & Taljaard E	New GPS technology for Rhino and preliminary results
	15:55	Marnewick K, Grange S & Davies-	Using tourist photographs to monitor cheetah in the Kruger National Park
	16:00	Goodall V	Determining herbivore activity states using independent Mixture Models
	16:05	Zisadza P, Gandiwa E, van der Westhuizen H <i>et al</i>	Abundance, distribution and population trends of Hippopotamus in Gonarezhou National Park, Zimbabwe
EVAPOTRANSPIRATION DYNAMICS			
Izak Smit (cont.)	16:10	Palmer AR, Finca A, Weideman C <i>et al</i>	Modeling evapotranspiration in the Kruger National Park using the Penman-Monteith equation and MODIS LAI to approximate canopy conductance
	16:15	Caylor K, Wang L, Good S & Soderberg K	Evapotranspiration dynamics in a semi-arid savanna using continuous water vapor isotopes from the eddy covariance flux tower at Mpala Research Centre, Kenya
	16:20	Balzter H, Ghent D, Kaduk J <i>et al</i>	Improving heat flux and soil moisture simulations by the land-surface model JULES through assimilation of SEVIRI land surface temperature
	16:25	Discussion	
18:00		DINNER	Skukuza Golf Club: Registered delegates only

FRIDAY 18 MARCH 2011

MANAGING FOR HETEROGENEITY/BIODIVERSITY

FIRE AS A MANAGEMENT TOOL

William Bond	07:30	Govender N, Smit IPJ, Pienaar D <i>et al</i>	Experimenting with high intensity fires to combat bush thickening in the Kruger National Park
	07:45	Bronkhorst FS	Common principles used in applying Patch-mosaic burning as an alternative fire management program in two significantly different veldtypes of Mpumalanga
	08:00	Staver AC, Kruger JM, Hedin L <i>et al</i>	Examining fire-resource interaction effects on tree density in KNP using a long-term monitoring dataset (the VCA data)
	08:15	Archibald S & Staver AC	How feasible is early-season burning in Kruger?
	08:30	Discussion	

PREDATOR MANAGEMENT

Cathy Greaver	08:40	Govender D, Broughton, H & Jolles A	Disease co-infection patterns in lions in the KNP: How will it influence possible management interventions?
	08:55	Watermeyer J, Parker D, Beverly G <i>et al</i>	The Kruger Western Boundary Project: an analysis of the potential threats to resident and dispersing wild dogs (<i>Lycan pictus</i>) west of the Kruger National Park
	09:00	Jackson C, McNutt JT & Apps P	Managing the ranging behaviour of African wild dogs using translocated scent marks
	09:05	Gamacho G	A Risk Analyses on Leopard Panthera pardus on Privately Owned Land Outside Formally Protected Areas

HERBIVORE MANAGEMENT

Cathy Greaver (cont.)	09:10	Shaw JA & Owen-Smith N	Black rhino habitat capacity: a new adaptive resource use approach for rhino conservation
	09:15	Göttert T, Schöne J, Hodges JK <i>et al</i>	Diurnal activity and disturbance behaviour of relocated black rhinos (<i>Diceros bicornis</i> Linnaeus 1758) in Namibia

OTHER

Cathy Greaver (cont.)	09:20	Harper C, Vermeulen G & De Wet K	Rhino poaching investigation: A multidisciplinary scientific approach
	09:35	Moore K	An Evaluation of the Design for communication of the proposed Elephant Management Plan in South African National Parks
	09:40	Discussion	
	09:50	Dr L Dziba	Wrap up
	10:10	DJ Pienaar	Thanks and Closure