List of BIOTA Southern Africa Phase III pre-proposals
(as at November 22nd, 2005)

1. Allsopp, Nicky:
Monitoring impacts of land use and climate change on vegetation along the Namaqualand-Bushmanland Ecotone

2. Allsopp, Nicky:
Impact of rest from grazing and biophysical manipulations on restoration of succulent karoo.

3. Allsopp, Nicky:
South African BIOTA Liaison Officer

Biological soil crusts (BSCs): Biodiversity, functional diversity, their environmental determinants and role in the ecosystem.

5. Esler, Karen J; Krug, Cornelia B; Samways, Michael J:
Sinking ships or floating islands: can trophic level comparisons of fragments and their surroundings provide answers for management and conservation of Cape Lowland biodiversity?

i. Scale dependency of the interaction of pedodiversity and biodiversity
   ii. Termite/soil interactions
   iii. Soil crusting, water infiltration and water availability as a key factor for the distribution of plants and plant functional types
   iv. Improvement of ecological models by components on soil water balance
   v. Derivation of large scale land-use potential from remote sensing and ground survey data
   vi. The role of micronutrients for the enhancement of the resilience of fynbos vegetation

7. Hoffman, Timm; Rohde, Rick:
   i. Environmental history of western southern Africa
   ii. Long-term monitoring at Paulshoek/Rooiwal Observatory
   iii. The climatic and biological history of Namaqualand

8. Jankowitz, Willem J; Strohbach, Ben:
Determining vegetation changes over the long term, using old vegetation data
From pattern to process - from process to application: model based integration and application tools

10. Joubert, David Francois; Zimmermann, Ibo; Graz, Patrick:
The development of a Decision Support System (DSS) for rangeland management

11. Joubert, David Francois:
Spatial and temporal dynamics of bush thickening by *Acacia mellifera* in the Highland Savanna of Namibia

12. Joubert, David Francois:
The impacts of bush encroachment, and bush clearing, on biodiversity

13. Knight, Richard; Musil, Charles:
Developing validation methodologies for assessing the impacts of climate-induced change in arid rangelands and the implications for rehabilitation projects

14. Knight, Richard; Cocks, Martin:
Use of an Internet-based Knowledge Commons as a research tool for creating and sharing “Expert Knowledge” within the BIOTA community for transferring research to policy.

15. Krug, Rainer M.; Knight, Richard; Krug, Cornelia B.:
Drivers of small / medium scale change: Differences and commonalities in the underlying ecosystem processes across the BIOTA transect and linkages to landscape scale processes

16. Lebert, Tom:
The impact of post-apartheid land reform in Namaqualand on the practice and institutions of common property management

17. Linsenmair, K.E.; Grohmann, Constanze:
Arthropods as ecosystem engineers: the impact of ants, termites and tenebrionids on soil properties and vegetation

18. Matthee, Conrad E.; Robinson, T.J.; van Vuuren, B.J.; Bowie, R.C.K.; Tolley, K.A.:
Reconstructing ancestral patterns of colonization and dispersal in sub-Saharan African vertebrates: the identification of refugia
19.  **McGeoch, Melodie; Matthee, Sonja:**
Monitoring the effects of anthropogenic environmental change on the parasite diversity of small mammal species with emphasis on the disease risk to humans and domestic stock in southern Africa

20.  **Mey, Wolfram; Deckert, Jürgen; Koch, Frank:**
Capacity-building for monitoring phytophagous insect diversity in the bio-observatories of Namibia and South Africa

21.  **Musil, Charles Frank:**
Restoration of succulent karoo: The importance of fog and dew precipitation in plant hydration and conservation of water resources

22.  **Musil, Charles Frank:**
Renosterveld restoration: Experimental manipulation of resource availability to manage invasive European annual grasses under a changing climate

23.  **Nuppenau, Ernst-August; Kirk, Michael; Lang, Hartmut; Hinz, Manfred; Zimmermann, Ibo; Hoffman, Timm:**
Elements of a Conducive Biodiversity Management for Natural Pasture Use: Implications for Culture, Economics and Policy
   i. Culture and individual perception
   ii. Up-scaling of bio-economic modeling for communal decision making and management of biodiversity
   iii. Using local knowledge and farming system information for action research
   iv. Design, impacts of community conservancy models and the role of traditional knowledge
   v. Developing an operational interface for bio-economic modeling, ecosystem valuation, and biodiversity management on a regional scale
   vi. Policy and Intervention: Instruments and the political economy of implementation

24.  **Rambold, Gerhard; Zedda, Luciana:**
Establishment of an information platform for providing observational data for long-term monitoring and analysis of Southern Africa lichen diversity shifts being indicative for environmental changes

25.  **Ritschel, Anja; Oberwinkler, F.; Berndt, Reinhard:**
Biodiversity of the rust mycobiota of south-western Africa: Species monitoring, chorology, data analysis and interpretation

26.  **Rothauge, Axel; Espach, Celeste; Coetzee, Marina; Strohbach, Ben::
Characterization of the carrying capacity (for ungulate herbivores) of BIOTA observatories
27. **Schmiedel, Ute; Koelle, Bettina:**
Capacity Development – BIOTA phase III

28. **M. Schmidt, M. Keil, C. Schultz, M. Vogel:**
Use of surface parameters by remote sensing for the valuation of landscape developments and as indicators for biodiversity

29. **Seymour, Coleen:**
The influence of anthropogenic climate change on bird assemblages along the southern African BIOTA transect

30. **Sommer, Simone; Fröschke, Götz; Harf, Rainer:**
Monitoring the Effects of Anthropogenic Impact on the Parasite Burden and Immune Gene Variability (MHC) of Small Mammals along a Climate Gradient in Southern Africa

31. **Strohbach, Ben; Jürgens, Norbert:**
Towards a vegetation map of Namibia

32. **Uhlmann, Elisabeth; Berndt, Reinhard:**
Biodiversity and population dynamics of Glomeromycota in south-western Africa

33. **van Rooyen, Gretel:**
Vegetation dynamics following human-induced disturbances in the Succulent Karoo

34. **Weaver, L. Chris (WWF):**
i. Mitigation of Human/Animal Conflict in Namibia Communal Conservancies
ii. Assessment of The Impacts of National and International Agricultural Subsidies On The Southern Africa Wildlife Sector

35. **Zimmermann, Ibo:**
i. Influence of trampling on ecological support services
ii. Influence of eco-friendly alternatives to poisons for parasite control
iii. Influence of charcoal as a soil amendment on ecological support services
iv. Integrated watershed planning for livelihood support and biodiversity
v. Influence of fire and firebreaks on ecological support services