



Target setting in KZN

Boyd Escott

Manager Biodiversity Spatial Planning and Information
Ezemvelo KZN Wildlife



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K Z N W I L D L I F E

Conservation, Partnerships & Ecotourism

TARGETS FOR DIFFERENT

- Four different assessments.
- Estuarine data primarily presence data only.



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Estuarine component

- Used the Ezemvelo Estuarine classification system to define Estuarine types. Where possible, we try to target a minimum of three of every type.
- Species data primarily presence data only.



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Terrestrial component

- Three hierarchical levels: Vegetation types, models, and point features
- Point features all targeted received 100%. Accuracy primarily 500m accuracy or better.



TERRESTRIAL MODELS

- Determined on a case by case basis. Research informed.

Order	English name	Family name	Taxon ID	Biodiversity Database Species ID	Taxon name	English name	SARDBIUHNKZN endemic?	Species code	Predictor variables & ranges	References	Refman. Nos.	Target	Target derivation
Stylommatophora	Terrestrial snail	Achatinidae	Sn_4		Cochlitoma semidecussata	Durban agate snail		Yes Cocsem	Forests (used code 63 : southern coastal scarp forest; code 65 : KwaZulu-Natal coastal forests; code 66 : KwaZulu-Natal dune forests); Mgeni primary catchment bioregion	Herbert & Kilburn (2004)	20	mo_cocmon_a = 100%, mo_cocmon_d = 0 %.	All forest patches with Cochlitoma montistempli records; not yet found in other forests, some of which have been well-sampled for snails.
			Sn_5		Cochlitoma semigranosa	Half-grained agate snail		Yes Cocgra	Forests (used code 64 : Pondoland Scarp Forests; code 65 : KwaZulu-Natal Coastal Forests; code 66 : KwaZulu-Natal Dune Forests); vegetation type (used code 43 : South Coast Bushland)	Herbert & Kilburn (2004)	20	mo_cocomi_a = 100%, mo_cocomi_b = 100 %, mo_cocomi_d = 1.4 %	All forest patches with Cochlitoma ommissa records; all potential habitat patches in statutory protected areas (2 468 ha out of 4 468 ha)
Stylommatophora	Terrestrial snail	Achatinidae	Sn_6		Cochlitoma simplex	Thukela agate snail		Yes Cocsim	Landcover (used code 19 : Dense bush (70-100 cc); code 20 : Bushland (< 70cc); code 23 : Grassland; code 27 : Degraded grassland); vegetation type (used code 9 : Glencoe Moist Grassland; code 37 : KwaZulu-Natal Highland Thornveld; code 48 : Thukela Thornveld; code 49 : Thukela Valley Bushveld)	Herbert & Kilburn (2004)	20	mo_cocsem_a = 100%, mo_cocsem_b = 100 %, mo_cocsem_d = 4.8 %	All forest patches with Cochlitoma semidecussata records; an area for a viable population is estimated to be 300 ha (area of potential habitat in Kenneth Stainbank Nature Reserve); require two other viable populations.
			Sn_7		Curvella calogypta			Yes Curcal	Vegetation type; landcover	Herbert & Kilburn (2004)	20	mo_cocgra_a = 6.6 %, mo_cocgra_b = 100 %, mo_cocgra_d = 9.8 %.	All mo_cocgra_a in statutory protected areas (1 068 ha of 16 100 ha) to remain protected; all mo_cocgra_b (44 ha) to remain protected; all mo_cocgra_d in statutory protected areas (2 672 ha of 27 356 ha) to remain protected.
			Sn_10		Curvella crosiysi			Yes Curcro	Forests (scarp forest & coastal forest); vegetation type	Herbert & Kilburn (2004)	20	mo_cocsim_b = 1.1 %, mo_cocsim_d = 0 %.	All mo_cocsim_b in statutory protected areas (8 564 ha of 758 824 ha) to remain protected
Stylommatophora	Terrestrial snail	Cerastidae	Sn_12		Edouardia conulus	Conical bark snail		Yes Edocon	Landcover (used code 19 : dense bush; code 20 : bushland; code 22 : grassland / bush clumps mix; code 23 : grassland; code 27 : degraded grassland; code 29 : old cultivated fields - bushland); mean annual precipitation (609 - 1062 mm); January means of daily maximum temperature (27 - 32 °C); January means of minimum daily temperature (19 - 21 °C)	Herbert & Kilburn (2004)	20	mo_edocon_a = 16.3 %, mo_edocon_d = 17.3 %.	All mo_edocon_a in statutory protected areas (.114 908 ha of 704 160 ha) to remain protected; all mo_edocon_d in statutory protected areas (86 532 ha of 499 912 ha) to remain protected



CONSIDERATIONS

- Need to reflect the driver for the species status (sole locality, small population, etc). Very useful for EIA response letters
- Need to standardise on accuracy of the data used, especially in the Terrestrial arena (Ezemvelo uses data with 500m or greater accuracy – resolution is reflective of the planning units utilised)
- Standardise buffer regions (target areas)?



Boyd Escott
GIS Analyst (Terrestrial)
Email: escottb@kznwildlife.com
Tel: (033) 845 1257



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