

STATION LISTS

Helaas zijn slechts stationslijsten beschikbaar voor vier uitgebreide verzameltrips (Zuid-Afrika, 1975, en Malawi, 1988, 1990, 1993); al het materiaal is ondergebracht in het Rijksmuseum van Natuurlijke Historie, Leiden (later Nationaal Natuurhistorisch Museum, nu Naturalis Biodiversity Center). Verwijs echter naar veldboeken *Africana Biologica* Vols. I-VIII. *Proper station lists are unfortunately only available for four extensive collecting trips (South Africa, 1975, and Malawi, 1988, 1990, 1993); all material was deposited in the Rijksmuseum van Natuurlijke Historie, Leiden (later Nationaal Natuurhistorisch Museum, now Naturalis Biodiversity Center). Refer to field notes Africana Biologica Vols. I-VIII.*

SOUTH AFRICA EXPEDITION, 9 March-22 April 1975; all material leg. A.C. & W.H. van Bruggen, deposited in Nationaal Natuurhistorisch Museum, Leiden (RMNH)

LIST OF STATIONS (CP = Cape Province, L = Lesotho, N = Natal, OFS = Orange Free State, T = Transvaal)

- STA CP1 Cape Province, Magersfontein battlefield, 31 km S. of Kimberley, 3800-4000 ft. = 1140-1200 m; under stones in long grass on koppies with scattered trees, 11 March 1975.
- STA CP2 Cape Province, Ulco (W. of Harts River), Grootkloof, near mountain hut, about 3800 ft. = 1140 m; fairly steep, stony slope with scattered bushes and trees, 12 March 1975.
- STA CP3 Cape Province, Ulco (W. of Harts River), Grootkloof, banks of stream below waterfall, about 3600 ft. = 1140 m; muddy and grassy banks with logs, molluscs under logs on moist soil, 12 March 1975.
- STA OFS4 Orange Free State, near bridge over Modder River E. of Paardeberg (Perdeberg), about 3500 ft. = 1050 m; under stones in indigenous bush on high river bank, 14 March 1975.
- STA N5 Natal, Pietermaritzburg, Queen Elizabeth Park, Cascade Falls, indigenous forest with bamboo on edge of small stream, about 2900 ft. = 970 m; under fallen leaves, 17 March 1975.
- STA N6 Natal, Pietermaritzburg, Botanical Gardens, about 2500 ft. = 750 m; low on tree trunk in indigenous bush across the stream, 17 March 1975.
- STA N7 Natal (Zululand), St. Lucia Game Reserve and Park, Charters Creek rest camp; on forest floor (humus) in indigenous bush at about sea level, 18-20 March 1975. Slug (*Laevicaulis*) on wall of white-washed building after heavy rains, 20 March 1975.
- STA N8 Natal (Zululand), St. Lucia Game Reserve and Park, Fannies Island rest camp; on walls of whitewashed huts at about sea level, 19 March 1975.

- STA N9 Natal (Zululand), St. Lucia Game Reserve and Park, indigenous bush near Fannies Island rest camp; small molluscs under logs, others on forest floor at about sea level, 19 March 1975.
- STA N10 Natal (Zululand), Hluhluwe Game Reserve, Memorial Check Gate, about 1300 ft. = 390 m; on gravel road, 20 March 1975.
- STA N11 Natal (Zululand), Mkuzi, Ghost Mountain Inn gardens, about 500 ft. = 150 m; lush garden with indigenous and exotic trees and shrubs, 21-24 March 1975. Slugs (*Laevicaulis*) on edge of swimming pool; prosobranchs (*Tropidophora*) under logs (old firewood) and on whitewashed wall of building.
- STA N12 Natal (Zululand), about 5 km W. of Ubombo, indigenous bush on edge of the road, about 1500 ft. = 450 m; in leaf mould, under logs and stones on the forest floor, 21-22 March 1975.
- STA N13 Natal (Zululand), along the road W. of Jozini (near J.G. Strydom Dam = Jozini Dam), 1000 ft. = 300 m; under stones and at the foot of tall aloes in sparse dry thorn bush, 22 March 1975.
- STA N14 Natal (Zululand), Mkuzi Game Reserve, near Msinga Hide, about 250 ft. = 75 m; on sandy soil at entrance of corridor leading to hide, 23 March 1975.
- STA N15 Natal (Zululand), Eshowe, Dlinza (Hlinza) Forest, Royal Drive, about 1650 ft. = 495 m; in leaf mould on forest floor, 24 March 1975.
- STA N16 Natal, Pietermaritzburg, Town Bush, about 2500 ft. = 750 m; in leaf mould, partly under logs, *Natalina* dormant 25 mm in humus under layer of leaf mould, 26 March 1975.
- STA N17 Natal, Pietermaritzburg district, farm Samvula on road D245 off Table Mountain road, garden, about 2500 ft. = 750 m; on the ground among herbs and grass on shale, 27 March 1975.
- STA N18 Natal, Pietermaritzburg district, farm Samvula on road D245 off Table Mountain road, mixture of overgrown, neglected wattle plantation and indigenous bush with large boulders and *Lantana* on the edge of the road, about 3000 ft. = 900 m; in leaf mould on forest floor, 27 March 1975.
- STA N19 Natal, Pietermaritzburg, 44 Howick Road gardens, about 2500 ft. = 750 m; well tended garden with compost heap and a few logs, 25-30 March 1975 (also leg. R.S. Benton).
- STA N20 Natal, Midmar Dam near Howick, near foot path beyond Cascades, about 3580 ft. = 1074 m; in thin layer of comparatively dry and poor wattle humus in neglected wattle plantation with some indigenous undergrowth and a few indigenous trees, 28 March

1975 (also leg. R.S. Benton).

- STA N21 Natal, along York-Rietvlei road 9 km N. of York, about 3500 ft. = 1050 m; in indigenous bush with rocks and boulders, 29 March 1975.
- STA L22 Lesotho (Basutoland), stony, overgrown slope NW. of Moyeni (Quthing), about 5600 ft. = 1680 m; under stones, 1 April 1975.
- STA CP23 Cape Province, Lady Grey, in Karringmelkspruit gorge below dam, along path to dam wall, about 5500 ft. = 1650 m; mainly under and around stones and boulders on steep slope, 2 April 1975.
- STA CP24 Cape Province, Lady Grey, gorge below dam, along banks of stream, about 5500 ft. = 1650 m; in leaf mould and under logs, 2 April 1975.
- STA T25 Transvaal, Drum Rock Hotel, N. of Nelspruit, about 3100 ft. = 930 m; urocyclid slug in hotel grounds, 6 April 1975.
- STA T26 Transvaal, Kruger National Park, Mathekeyane (Granokop), block S 17; under rocks and boulders and in leaf mould in cracks under trees, 8 April 1975.
- STA T27 Transvaal, Kruger National Park, koppie S. of koppie with Orpen plaque, block C 148; on and between large boulders and between roots of *Ficus* tree, 8 April 1975.
- STA T28 Transvaal, Kruger National Park, koppie with National Parks Act plaque, block C 148; on and between large boulders and in leaf mould under trees, 8 April 1975.
- STA T29 Transvaal, Kruger National Park, koppie with Orpen plaque, block C 148; among dry bushes on the ground in long grass, 8 April 1975.
- STA T30 Transvaal, Kruger National Park, Shirimantanga, block S 28; among large, overgrown boulders at foot of koppie, 8 April 1975 [*Trochonanina mozambicensis* alive under bark of Tambootie tree (*Spirostachys africanus*)].
- STA T31 Transvaal, Kruger National Park, koppie NE. of Shirimantanga, block S 28; among overgrown boulders, 8 April 1975.
- STA T32 Transvaal, Kruger National Park, Hlamanduba Loop, NW. slope of Shirimantanga, block S 28; among large overgrown boulders with scattered trees, 8 April 1975.
- STA T33 Transvaal, Kruger National Park, Thlalabye near Malelane, block S 104; steep slope with loose stones and boulders among which long grass, tall aloes and scattered trees, 9 April 1975.
- STA T34 Transvaal, Kruger National Park, Matjulu (Matjuluwane), slopes of hill, block S 103; gentle slope with scattered trees, large boulders and long grass, 10 April 1975.

- STA T35 Transvaal, Kruger National Park, Makhutwanini, block S 66; koppie with large and small boulders with scattered trees, more exposed and with fewer trees than loc. T34, 10 April 1975.
- STA T36 Transvaal, Kruger National Park, boulders off the road Malelane-Crocodile Bridge (road S25), approximately opposite Hectorspruit, block S 94; under and among boulders under trees N. of the road, 11 April 1975.
- STA T37 Transvaal, Kruger National Park, a short distance N. of junction firebreak-road H3, S of Mbyamiti dam wall, block S 67; low, overgrown koppies with large boulders, 11 April 1975.
- STA T38 Transvaal, Kruger National Park, Mbyamiti Loop, block S 68; on and among boulders on low hills along the road E of Mbyamiti River, 11 April 1975.
- STA T39 Transvaal, Kruger National Park, Punda Milia rest camp, garden of cottage, block N 31; under stones and among grass, 13 April 1975. *Trochonanina mozambicensis* also low on bark of tree.
- STA T40 Transvaal, Kruger National Park, Olifants rest camp, block N 272; *Laevicaulis* on whitewashed wall of hut, 15 April 1975.
- STA T41 Transvaal, Kruger National Park, near pumping station below Olifants rest camp, slope above north bank of Olifants River, block N 272; gentle slope with boulders and scattered trees, 15 April 1975.
- STA T42 Transvaal, Kruger National Park, Nwamanzi, 1.6 km N, of junction main road-road H8, block N281; on and among boulders under trees on koppie along eastern side of road, 15 April 1975.
- STA T43 Transvaal, Kruger National Park, Gorge picnic spot, block C 2; *Rachis jejuna* on whitewashed wall of hut and in grass on logs, *Trochonanina mozambicensis* on wooden fence and also in grass on logs, 15 April 1975.
- STA T44 Transvaal, Kruger National Park, S. of Olifants River causeway near Balule rest camp, block C 10; among boulders and logs alongside the road, 15 April 1975.

N.B. All Kruger National Park localities are between 600 and 2750 ft. = 180 and 825 m, but mainly between 600 and 1600 ft. = 180 and 480 m.

NEW NAMES OF SOUTH AFRICAN PROVINCES to be entered on **new labels** (if needs be). N.B. All localities are in South Africa bar STA L22, which is in Lesotho, formerly Basutoland, an independent country in the form of an enclave in South Africa.

STA CP-3 – now Northern Cape Province

STA OFS4 – now Free State
STA N5-21 – now KwaZulu-Natal
STA L22 – Lesotho (no change)
STA CP23-24 – now Eastern Cape Province
STA T25-44 – The old Transvaal province has been divided into a number of smaller units (provinces), the Kruger National Park southern half falls under Mpumalanga and the northern half under Limpopo Province. The following stations are now situated in Mpumalanga: 25-26, 30-38. The remaining stations are in Limpopo Province: 27-29, 39-44.

MALAWI EXPEDITION 1, 11 May-3 June 1988; all material leg. A.C. & W.H. van Bruggen, deposited in Nationaal Natuurhistorisch Museum, Leiden (RMNH)

LIST OF STATIONS

- STA 1988-01 Zomba District, Zomba Plateau, Chingwe's Hole Nature Trail, c. 1900 m; leaf litter in montane forest, also under bark of trees (e.g., beetles), 15 May 1988.
- STA 1988-02 Zomba District, Mpita tobacco estate (15° 28' S 35° 12' E) near Thondwe, SW. of Zomba, c. 1100 m; seasonal lowland forest, 16 May 1988.
- STA 1988-03 Kasungu District, Kasungu National Park, Lifupa Lodge grounds, c. 1000 m; under stones and bushes in degraded miombo woodland, 18 May 1988.
- STA 1988-04 Kasungu District, Kasungu National Park, main road causeway Lower/Upper Lingadzi River, N. of Lifupa Lodge, c. 1000 m; freshwater molluscs in river, pools in shallow, stagnant water, 19 May 1988.
- STA 1988-05 Kasungu District, Kasungu National Park, Black Rock, c. 1100 m; leaf litter around foot of granite inselberg, miombo woodland with scattered rocks, 19 May 1988.
- STA 1988-06 Kasungu District, Kasungu National Park, Mangombe Rume, c. 1000 m; leaf litter around foot of granite koppie, miombo woodland with scattered rocks, 19 May 1988.
- STA 1988-07 Ntchisi District, Ntchisi Forest Reserve, end of road from forest rest house, c. 1500 m; lush submontane/montane forest, leaf litter and crawling on forest floor, 21 May 1988.
- STA 1988-08 Ntchisi District, Ntchisi Forest Reserve, surroundings of forest rest house, c. 1500 m; degraded and impoverished submontane/montane forest, 21 May 1988.
- STA 1988-09 Ntchisi District, Ntchisi Forest Reserve, patch of impoverished and degraded submontane/montane forest near cultivated plots below forest rest house, c. 1500 m; leaf litter, 21 May 1988.

STA 1988-10 Nkhotakota District, Nkhotakota Game Reserve, Bua River upstream of Bua Camp NW. of Nkhotakota, c. 600 m; freshwater bivalves in fast flowing shallow river with rapids, rocky and sandy bottom, 23 May 1988.

STA 1988-11 Nkhotakota District, Nkhotakota Game Reserve, banks of Bua River upstream of Bua Camp NW. of Nkhotakota, c. 600 m; leaf litter in riverine forest in miombo woodland, also under bark of fallen tree (*Trochonanina* cf. *mozambicensis*), 23 May 1988.

STA 1988-12 Nkhotakota District, Nkhotakota Game Reserve, surroundings Bua Camp NW. of Nkhotakota, c. 600 m; miombo woodland, 23 May 1988.

STA 1988-13 Chikwawa District, Lengwe National Park, rest camp, c. 100 m; acacia woodland, 28-29 May 1988 (Arachnida).

STA 1988-14 Mangochi District, Namaso Bay, shore of Lake Malawi N. of Nkhudzi Hills, under 500 m; sandy shore of lake, 30 May 1988 (freshwater molluscs).

MALAWI EXPEDITION 2, 9 June-2 July 1990; all material leg. A.C. & W.H. van Bruggen, deposited in Nationaal Natuurhistorisch Museum, Leiden (RMNH)

LIST OF STATIONS

STA 1990-01 Zomba District, Zomba Plateau, Chingwe's Hole Nature Trail, c. 1900 m; leaf litter with *Zingis* in montane forest at 'point 3', 11 June 1990.

STA 1990-02 Zomba District, Zomba Plateau, Chingwe's Hole Nature Trail, c. 1900 m; edge of montane forest at 'point 9', *Gulella* in bunch of grass, 11 June 1990.

STA 1990-03 Nkhata Bay District, Vizara Rubber Estate-Nkhwadzi Forest Reserve on road S53 between the first two bridges from the N., c. 550 m; rubber plantation - degraded evergreen forest - evergreen forest mosaic, 14 June 1990.

STA 1990-04 Nkhata Bay District, Kalwe Forest Reserve W. of Nkhata Bay, c. 550 m; leaf litter in degraded transition woodland close to main road, 14 June 1990.

STA 1990-05 Mzimba District, Lunyangwa Forest Reserve N. of Mzuzu, c. 1250 m; leaf litter in degraded evergreen forest with *Pinus patula* and *Eucalyptus* plantations, 14 June 1990.

STA 1990-06 Mzimba District, Vwaza Marsh Game Reserve, Lake Kazuni marsh near tented camp, c. 1100 m; in marsh, 15 June 1990.

STA 1990-07 Mzimba District, Vwaza Marsh Game Reserve, Lake Kazuni tented camp, c. 1100

m; miombo woodland, 15 June 1990.

STA 1990-08 Rumph District, Nyika National Park, Chelinda Camp, surroundings of chalet no. 4, c. 2300 m; *Pinus patula* and *Eucalyptus* plantation with invading submontane forest (frog in *Eucalyptus* leaf litter), 16-18 June 1990.

STA 1990-09 Rumph District, mountain pass above Chiweta on M1 (Mzuzu-Karonga), c. 950 m; miombo-evergreen forest mosaic, *Polistes* nest on road sign post, 20 June 1990.

STA 1990-10 Karonga District, Karonga, beach Lake Malawi, c. 475 m; slightly sloping beach of rough sand with pioneer vegetation of *Scaevola*, 20 June 1990.

STA 1990-11 Chitipa District, Misuku Hills, Mugesse Forest Reserve near Misuku, c. 1700 m; leaf litter in lush submontane forest along forestry road, 21 June 1990.

STA 1990-12 Chitipa District, Misuku Hills, Misuku, St. Matthias Parish mission station, c. 1600 m; secondary and/or degraded submontane forest, garden and crop lands, storage pond, 21-23 June 1990.

STA 1990-13 Chitipa District, Misuku Hills, Misuku, along entry road on edge of Mugesse Forest Reserve near Misuku, c. 1700 m; leaf litter with *Pseudoglessula* in degraded and climax submontane forest, 22 June 1990.

STA 1990-14 Chitipa District, Misuku Hills, back road from St. Matthias Parish mission station to (Misuku) Mugesse Forest Reserve, 1600-1700 m; leaf litter in degraded submontane forest with *Pinus patula* and *Eucalyptus* plantations, 22-23 June 1990.

STA 1990-15 Rumph District, Viphya Mountains, Chikangawa, Kasito Lodge (= Guest House No. 1), c. 1650 m; degraded submontane forest with *Pinus patula* plantations, 25-27 June 1990.

STA 1990-16 Nkhata Bay District, Viphya Mountains, Chamambo evergreen forest E. of main road (M1) at Chikangawa, 1790-1800 m; leaf litter in submontane forest on edge of *Pinus patula* plantations, 26 June 1990.

STA 1990-17 Nkhata Bay District, Viphya Mountains, Nthungwa Hill Forest Reserve E. of main road (M1) N. of Chikangawa, 1850-1900 m; leaf litter in submontane forest on the edges of *Pinus patula* plantations, 27 June 1990.

MALAWI EXPEDITION 3, 19 May-11 June 1993; all material leg. A.C. & W.H. van Bruggen, deposited in Nationaal Natuurhistorisch Museum, Leiden (RMNH)

LIST OF STATIONS

- STA 1993-01 Blantyre District, Blantyre, Mount Soche Hotel grounds, c. 1050 m; well-tended garden with exotic shrubs and flowers, but with many native trees retained, 22 and 27-28 May 1993 (*Achatina immaculata* in diapause in crotch of fig tree at about 1.50 m; juv. still active, not collected).
- STA 1993-02 Blantyre District, Blantyre, Michiru Forest Reserve, c. 1200 m; woodland with large trees along small stream, Mikwawa River, Trail No. 1, leaf litter/soil still not quite dry, 22 May 1993 (leaf litter).
- STA 1993-03 Chikwawa District, Lengwe National Park, rest camp, c. 100 m; acacia woodland, 24-27 May 1993 (*Lanistes* in storage dam; *Achatina immaculata* in surrounding dry bush; insects; Arachnida).
- STA 1993-04 Chikwawa District, Lengwe National Park, along main road just beyond southern junction Mbawala Drive, 2.3 km from rest camp, c. 100 m; shaded thicket, 26 May 1993 (leaf litter).
- STA 1993-05 Chikwawa District, Lengwe National Park, along eastern Nyanga Loop, just off South Thicket Road, 5.4 km from rest camp, c. 100 m; in shaded thicket, 26 May 1993 (two *Rachis* in diapause on bark of tree, *Monodora junodi*, quite exposed at about 1.50 m; spider; leaf litter).
- STA 1993-06 Blantyre District, Blantyre, Mt. Soche area, small patch of forest directly east of Satellite Tracking Station (= P.O. Transmitter), c. 1200 m; edge of open, degraded woodland/forest on path, to be entered at T-junction of dirt roads, 28 May and 4 June 1993 (leaf litter).
- STA 1993-07 Zomba District, Zomba Plateau, Ku Chawe Inn surroundings, c. 1600 m; mountain forest, p.p. degraded, 30 May 1993.
- STA 1993-08 Zomba District, Zomba Plateau, mountain forest c. 1 km before Signpost No. 13 (4-5 km from Ku Chawe Inn), c. 1700 m; 30 May 1993 (leaf litter).
- STA 1993-09 Zomba District, Zomba Plateau, mountain forest on road from Ku Chawe Inn down to Zomba, 3.6 km from Ku Chawe Inn, c. 1400 m; 31 May 1993 (leaf litter).
- STA 1993-10 Zomba District, Zomba Plateau, mountain forest bordering Mulunguzi River near bridge not far from Trout Ponds, c. 1650 m; 2 June 1993 (leaf litter; *Thapsia*, earwig, beetles, isopods, worms from rotting log).
- STA 1993-11 Mangochi District, beaches of Lake Malawi near Nkopola Lodge, under 500 m; 6 June 1993 (freshwater shells).
- STA 1993-12 Mangochi District, surroundings of Nkopola Lodge, under 500 m; savanna woodland with rocks and boulders, 6 June 1993 (includes discarded remains of *Trochonanina* cf. *mozambicensis*).

STA 1993-13 Salima District, Senga (Bay) E. of Salima, Livingstonia Beach Hotel grounds, under 500 m; savanna-woodland, 9 June 1993 (insects only).

STA 1993-14 Lilongwe District, Lilongwe, Capital Hotel grounds, c. 1100 m; in leaf litter among the roots of the kachere tree, *Ficus natalensis*, 10 June 1993 (subulinids, *Thapsia*, *Succinea*, *Laevicaulis*).

Lijst van nieuwe taxa voorgesteld na de lijst van 2009 in het Van Bruggen 'Festschrift'
List of new taxa introduced after the 2009 list in the Van Bruggen 'Festschrift'

Na publicatie van de lijst van nieuwe taxa in 2009 (Breure et al., 2009: Appendix 2, pp. 518-524) werden nog acht nieuwe mollusken beschreven. Dit zijn de volgende. *After publication of the list of new taxa in 2009, eight more new molluscs were described. These are the following.*

Mollusca

annibiodiversitatis van Bruggen, 2011, *Gulella*, Basteria 85: 850, Malawi, RMNH (Stylommatophora, Streptaxidae).

crux van Bruggen, 2011, *Gulella*, Basteria 85: 856, Malawi, RMNH (Stylommatophora, Streptaxidae).

menkhorsti van Bruggen, 2011, *Gulella*, Basteria 85: 854, Malawi, RMNH (Stylommatophora, Streptaxidae).

misaliensis Gittenberger & Van Bruggen, 2013, *Afripupa*, Zoologische Mededelingen Leiden 87 (3): 244, Tanzania, RMNH (Stylommatophora, Gastrocoptidae).

misaliensis Gittenberger & Van Bruggen, 2013, *Pupisoma (Ptychopatula)*, Zoologische Mededelingen Leiden 87 (3): 247, Tanzania, RMNH (Stylommatophora, Valloniidae).

nuchalis van Bruggen, 2011, *Gulella*, Basteria 85: 859, Malawi, MCZ (Stylommatophora, Streptaxidae).

proxima van Bruggen, 2014, *Gulella*, Basteria 78: 53, Malawi, RMNH (Stylommatophora, Streptaxidae).

rowsoni Gittenberger & Van Bruggen, 2013, *Microcystina*, Zoologische Mededelingen Leiden 87 (3): 262, Tanzania, RMNH (Stylommatophora, Euconulidae).

Reference

Breure, A.S.H. (Bram), E. (Edi) Gittenberger, W.J.M. (Wim) Maassen & A.J. (Ton) de Winter, 2009. In and out of Africa: Dr. A.C. van Bruggen, keen educator and eminent biologist. – Zoologische Mededelingen 83 (3): 509-524.

Summary

Alles bij elkaar geeft dit de volgende getallen voor nieuw-beschreven taxa. *All-in-all this results in the following figures for newly described taxa.*

Mollusca: 124 new taxa, i.e. 1 subfamily, 6 genera, 4 subgenera, 99 species, 12 subspecies, 1 variety and 1 nomen novum.

Insecta: 16 new taxa, i.e. 1 genus (Diptera), 1 subgenus (Diptera), 13 species (10 Diptera, 2 Ephemeroptera), and 1 nomen novum (Ephemeroptera).

Plantae: 3 new taxa, i.e. 1 subgenus and 2 species.

Summa summarum: 143 new taxa.

LET OP TERUGKOPPELING FILE (streepje in titel moet KORT zijn!)

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