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Pat Marks

**A LIST OF AUSTRALIAN SPECIES OF *URANOYAENIA* LYNCH
ARRIBÁLZAGA (DIPTERA: CULICIDAE)**

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A LIST OF AUSTRALIAN SPECIES OF *URANOAEINIA* LYNCH ARRIBÁLZAGA (DIPTERA: CULICIDAE)

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Abstract

Thirteen described species of *Uranotaenia* Lynch Arribálzaga are listed, including six new records for Australia; three undescribed species are recognised.

Australian records of *Uranotaenia* Lynch Arribálzaga species are scattered through taxonomic literature and published and unpublished reports. In preparation for a revision by Dr. N. V. Dobrotworsky and myself of the species occurring in New Guinea and Australia, specimens in the collections of the Department of Entomology, University of Queensland and of the Queensland Institute of Medical Research have been re-examined. Names can now be given to several species previously recorded only by reference numbers (Marks, unpublished; shown in parenthesis after the name). Of the thirteen described species listed, six (marked *) are recorded from Australia for the first time; of three undescribed species, two (marked *) were recognised during preparation of this paper.

Under each species listed, its known range within Australia is indicated. Records from New South Wales are based on Lee (1944) and Lee *et al.* (1957); those from Northern Territory in part on O'Gower (1958). Where a species or its synonym has an Australian type locality, this is noted, and for the remaining species a reference specimen in the Department of Entomology, University of Queensland, is cited. Where it has not been possible to recheck Queensland records from outside the geographical range of the specimens examined, this is noted (recognition of additional species shows that my manuscript keys for Australian *Uranotaenia*, previously used for identification, are inadequate and could lead to mis-identification).

Uranotaenia albescens Taylor

Type locality.—Townsville, Queensland.

Range.—Darwin, N.T., to Mackay, Qd; Moa I. (Torres Strait).

Uranotaenia albosternopleura Peters*

("U. sp. No. 91")

Female, Half Moon Bay nr Cairns, Queensland, at night, biting or on skin, 25.vii.1957, P. B. Wallis.

Range.—Cairns district to Danbulla (Atherton Tableland), Qd.

Uranotaenia amiensis Peters*

("U. sp. No. 66")

Male, Devil Devil Creek, 11 miles N. Mt Molloy, Queensland, 29.x.1962, E. N. Marks and G. Barrow.

Range.—Lockhart River Mission (Lloyd Bay area) to Cairns, Qd. The specimens on which were based records of "U. sp. No. 66" from Mitchell River Mission (Standfast and Barrow 1968), Innisfail district (Standfast and Barrow 1969) and from Townsville (O'Gower 1960) have not been rechecked.

Uranotaenia argyrotarsis Leicester

Male, Mourilyan Harbour, Queensland, jungle pool, 15.v.1952, E. N. Marks, P.1189.

Range.—Batchelor, N.T. to Bingil Bay, Qd; Darnley I. (Torres Strait).

Uranotaenia diagonalis Brug

Male, Moa I., Queensland, bases of flower bracts of *Curcuma australasica*. 9.v.1953, E. N. Marks.

Range.—Coen district to Torres Strait islands, Qd. Specimens on which Standfast and Barrow (1969) based their record from Innisfail district have not been rechecked.

Uranotaenia hirsutifemora Peters*

Female, Bramston Beach, Queensland, light trap in rainforest, 1.xi.1962, E. N. Marks, G. Barrow and H. McDonald.

Range.—Innisfail district, Qd. There are numerous males and females in Standfast and Barrow's collections; possibly these were identified as "*U. sp. No. 54*" of which they recorded large numbers (Standfast and Barrow 1969).

Uranotaenia lateralis Ludlow

Synonyms: *U. propria* Taylor—type locality Townsville, Queensland; *U. cairnsensis* Taylor—type locality Cairns, Queensland.

Range.—Darwin, N.T., to Southport, Qd.

Note.—Australian records of *U. atra* Theobald refer to this species. Stone (1957), who resurrected the name *lateralis* from synonymy with *atra*, found that the type of *U. atra* was identical with *U. nigerrima* Taylor, a common New Guinea species not known from Australia. *U. lateralis* was described from Philippine Is. and figures of Philippine specimens (Delfinado 1966) show some differences from Queensland specimens, supporting Belkin's (1962) suggestion that a species complex may exist.

Uranotaenia moresbyensis Peters*

("U. sp. No. 123"; recorded by Standfast and Barrow (1969) as "*U. sp. No. 102*").

Male, Bramston Beach, Queensland, 1.xi.1962, E. N. Marks, G. Barrow and H. McDonald.

Range.—Innisfail district, Qd.

Uranotaenia nivipes (Theobald)

Synonym: *U. albofasciata* Taylor—type locality Darwin, Northern Territory (Type male in South Australian Museum).

Type locality.—Queensland (Deception Bay).

Range.—Darwin, N.T., to Southport, Qd.

Novaguinensis Group.

Marks' "*U. sp. No. 45*", which occurs from near Cape York to the Brisbane area, refers collectively to species of the Novaguinensis Group, females of which cannot be separated. *U. novaguinensis* Peters and *U. paranoaguinensis* Peters can be distinguished only on male terminalia; *U. paranoaguinensis* has not been identified from Australia, but many Australian males have yet to be examined. An undescribed species of this group, identifiable on both male terminalia and larva, has been designated "*U. sp. No. 140*". Standfast and Barrow's (1969) record of "*U. sp. No. 45*" from Innisfail district may include more than one species, but definitely includes "*U. sp. No. 140*".

Uranotaenia novaguinensis Peters*

Male, Blue Mts (Coen district), Queensland, 17.xi.1945, J. L. Wassell.

Range.—Lockhart River Mission (Lloyd Bay area) to Brisbane district and Carnarvon Gorge, Qd.

Uranotaenia paralateralis Peters*

("U. sp. No. 54")

Female, Cairns, Queensland, 8.vii.1946, E. N. Marks, P. 764.

Range.—Cairns district, Qd.

Note.—Evidence is now available to indicate that specimens described by Peters (1964) as females of *U. paralateralis* are not conspecific with the holotype male of that species. Males of "*U. sp. No. 54*" are unknown but females resemble the holotype of *U. paralateralis*. Although Standfast and Barrow (1969) recorded large numbers of "*U. sp. No. 54*" from Innisfail district, it has not been recognised in material now available from their Innisfail collections, and it seems possible that they were identifying *U. hirsutifemora* (then unrecognised as occurring in Australia) as "*U. sp. No. 54*".

Uranotaenia pygmaea Theobald

Type locality.—Burpengary, Queensland.

Range.—Dinner Creek, Innisfail district, Qd, to Colo Vale, N.S.W.

Uranotaenia tibialis Taylor

Type locality.—Cairns, Queensland.

Range.—Cairns to Mourilyan, Qd.

Note.—*U. antennalis* Taylor—type locality, Cairns, Queensland, may be a synonym of *U. tibialis*, or possibly "*U. sp. No. 82*" may be *U. antennalis*; further study is needed before this can be resolved.

"*Uranotaenia sp. No. 82*"

Male, Bamaga, Queensland, jungle pool, 17.v.1953, E. N. Marks.

Range.—Bamaga (near Cape York) to Lockhart River Mission (Lloyd Bay area), Qd.

Note.—A member of the Tibialis Group.

"*Uranotaenia sp. No. 140*"*

Male, Edge Hill, nr Cairns, Queensland, resting in sedge swamp, 30.iii.1961, E. N. Marks.

Range.—Cairns to Innisfail districts, Qd.

Note.—A member of the Novaguinensis Group, distinct on male terminalia and larva. All (four) males of this Group examined in Standfast and Barrow's Innisfail collections are "*U. sp. No. 140*"; they would have been identified by Standfast and Barrow (1969) as "*U. sp. No. 45*".

"*Uranotaenia sp. No. 141*"*

Male, Goondi, Innisfail district, Queensland, chicken trap, 2.xi.1963 Standfast and Barrow, FM651.

Range.—Innisfail to Cardwell districts, Qd.

Note.—A species allied to *U. moresbyensis*.

Life histories of the following species are unknown: *U. albosternopleura*, *U. hirsutifemora*, *U. moresbyensis*, "*U. sp. No. 141*". Additional link-bred material of *U. amiensis*, *U. paralateralis*, *U. tibialis*, "*U. sp. No. 82*", and "*U. sp. No. 140*" would assist materially in current studies of the genus.

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