



*Aedes (Nothoskusea) chathamicus* (Dumbleton)

Chatham Islands mosquito

**NZ status: Endemic**

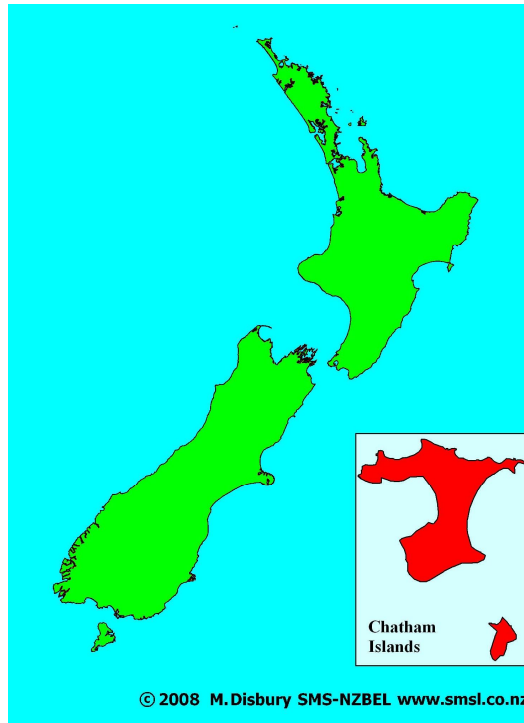


**Vector and Pest Status**

The vector and pest status of *Aedes chathamicus* is not currently known. Little is known about its hosts (Belkin, 1968), although it has been reported to bite humans (Snell & Sirvid, 2005).

**Geographic Distribution**

*Aedes chathamicus* is an endemic species found exclusively on the Chatham Islands (Dumbleton, 1962; Belkin, 1968).



NB. This map denotes the general areas where this species has been recorded, not actual distribution

### Incursions and Interceptions

*Aedes chathamicus* has not been intercepted at New Zealand's borders.

### Taxonomy

*Aedes chathamicus* was first discovered and described by Dumbleton in 1962 (Dumbleton, 1968) and is the only representative of the endemic subgenus *Nothoskusea* (Snell & Sirvid, 2005).

Changes proposed by Reinert *et al.* in 2000 elevating the subgenus *Ochlerotatus* to generic level, also saw *Ae. chathamicus* moved to become *Ochlerotatus* (*Nothoskusea*) *chathamicus*. Further revision revealed it shared some morphological similarities with another endemic species, *Opifex fuscus* (also noted by Dumbleton, 1962) and it was moved again to the genus *Opifex* by Reinert *et al.* (2004) to become *Opifex nothoskusea chathamicus* (Reinert & Harbach, 2005). Controversy over the Reinert works (Reinert, 2000; Reinert *et al.*, 2004; Reinert & Harbach, 2005) has resulted in the majority of mosquito workers reverting back to *Aedes* pending further research.

The large adult females may be separated from other New Zealand species by the presence of distinctive pale basal lateral patches on the sternites (Belkin, 1968), some also with a pale apical median patch (Snell, 2005). The palps are very short, around 1/6 the length of the proboscis and both the palps and proboscis are entirely dark scaled (Belkin, 1968; Snell, 2005).

Larvae may be identified by their large triangular patch of 100 minute broadly fringed comb scales and very small rounded anal gills with the dorsal pair being distinctly larger than the ventral (Belkin, 1968; Snell, 2005).

## Habits and Habitat

*Aedes chathamicus* larvae are only known from saline or brackish rock pools, at or just above the high tide mark on the Chatham Islands (Dumbleton, 1962; 1968; Snell, 2005).

Little is known about the habits of *Aedes chathamicus* (Derraik *et al.*, 2005). They are known to bite humans and have been caught biting indoors and out (Derraik *et al.*, 2005; Snell, 2005). Anecdotal evidence suggests they may be night time biters (Derraik *et al.*, 2005; Snell, 2005).

Dispersal remains unknown but adult females have been found five kilometres from the coastline suggesting either a long flight range or a broader range of larval habitats than is currently known (Snell, 2005).

## References

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