

4.3 SITES OF BIOREGIONAL SIGNIFICANCE IN THE DAVENPORT MURCHISON RANGES BIOREGION/SUBREGION

Site: 20-5-1 Lower Frew River and Floodout

Level of significance: bioregional

Location: 20° 15' S 135° 27' E; North east of the Davenport Ranges.

Area: 535 km² **Map sheets:** Frew River SF 53-3 & Alroy SE 53-15

Bioregions: Davenport Murchison Ranges (DAV 74.4%) & Tanami (TAN 25.6%)

Tenure: Pastoral Lease - Epenarra Station (61% of site) and Kurundi Station (8% of site); Freehold - Wakaya Aboriginal Land Trust (12% of site); Crown Land - Vacant/uncommitted (17% of site)

Description: The site includes the elongated floodout of the Frew River and the numerous semi-permanent in-stream waterholes. The floodout terminates in the Alyawarr Desert.

Notes: Few collections have been made from this poorly known area.

Criteria satisfied: A1 a ii), A1 b ii), B1 b1 ii)

Taxa of Australian significance: *Cullen walkingtonii* {3KC-}

Taxa of NT significance: *Cyperus oxycarpus* {3kC- [S] only known in DAV from this site}, *Potamogeton crispus* {3rC- only known in DAV from this site}

Taxa of Southern NT (study area) significance: *Acacia hemsleyi* {(disjunct)}, *Desmodium filiforme* {(disjunct)}, *Eragrostis exigua* {(disjunct) only known in DAV from this site}, *Vallisneria annua* {(disjunct)}

Taxa of bioregional significance: *Cyperus exaltatus* {DAV (disjunct) only known in DAV from this site}, *Euphorbia mitchelliana* {DAV (disjunct and apparently rare) only known in DAV from this site}, *Heliotropium ammophilum* {DAV (northern range limit) [N]}, *Sida cleisocalyx* {DAV (apparently rare)}

Other taxa only known in DAV bioregion from this site: *Alternanthera nodiflora*, *Aristida hygrometrica*, *Dysphania rhadinostachya* subsp. *inflata*, *Elatine gratiolooides*, *Eremophila latrobei* var. *glabra*, *Pseudognaphalium luteoalbum*

Type locations of the following were collected from the site: *Eragrostis exigua* (1970)

Vegetation Map Units (mapped as occurring at the site on the 1:1000,000 NT Vegetation Survey Map):

Map unit 71 (2 %): *Acacia aneura* (Mulga) tall sparse-shrubland with grassland understorey.

Map unit 27 (68 %): *Eucalyptus microtheca* s. lat. (Coolibah) low open-woodland with open-grassland understorey.

Map unit 76 (20 %): *Triodia pungens* (Soft Spinifex), *Triodia schinzii* (Feathertop Spinifex) hummock grassland with *Acacia* tall sparse-shrubland overstorey.

Map unit 42 (8 %): *Corymbia opaca* (Bloodwood) low open-woodland with *Triodia pungens* (Soft Spinifex) hummock grassland understorey.