

Fauna of The Rapid Creek Region of Darwin

This study aims to introduce the diversity of animals in Rapid Creek . It does not constitute an intensive fauna survey of the region, but pools existing information for the purposes of management. The list includes fauna which could be encountered in the freshwater zone of Rapid Creek. Other habitats (mangrove, estuarine) have been briefly reviewed to update the current fauna list.

1. Literature Review

There have been a number of reports on the area covering hydrology, water quality, drainage, recreational (the Brinkin lake proposal) and landscaping developments. An environmental study which was conducted in the Leanyer and Marrara swamps in 1978, provides a tentative list of invertebrates occurring in the Buffalo Creek mangroves. Dwyer and Associates (1980) provide a good assessment of the vertebrates (birds, reptiles and mammals) and invertebrates (benthic fauna) occurring in Rapid Creek mangroves. This is supplemented with a list of the fish fauna utilising the mangroves and estuary (CCNT 1991).

Studies on the freshwater habitats of Darwin have not yet been initiated. Current knowledge of lentic and lotic environments stem from faunal collections in the Alligator River Region by the CSIRO (Midgley, 1972) and the Office of the Supervising Scientist (Marchant, 1982; Tyler and Crook, 1987; Bishop *et.al.* 1986). Current studies on freshwater ecology of Magela Creek in Kakadu National Park are nearing completion and will soon be published. These will provide a good basis from which similar ecosystems in Darwin can be assessed.

The apparent dearth of aquatic studies results from the lack of basic research. Animal groups such as the Platyhelminthes, Nemertea, Nematoda, etc. require careful taxonomic identification, while in other cases the relevant identification keys do not exist for Australian species. A large proportion of aquatic animals in lentic and lotic environments are immature insects and crustaceans. Full descriptions of some species utilise adult and immature specimens. Few adults have been linked to their immature aquatic forms and the immature forms have not been described. The taxonomy of aquatic insect larvae is therefore limited, and keys are scattered or in a state of revision. Most of the Northern Territory Museum's collection remains undescribed, and will remain so until a complete revision of the relative orders within Australia have taken place.

2. Rapid Creek Fauna Survey

2.1 Region of Investigation

An assessment of Rapid Creek for a plan of management requires the inclusion of all abiotic and biotic components affecting the system. The area in this study encompasses the whole catchment, an area of 28 square kilometres. The size of the freshwater region (the swamp and stream) varies seasonally with the annual wet. Drainage of the wetland is slow and springs maintain a good flow of water in the creek for most of the year. A rich and diverse range of aquatic organisms are able to live there.

To adequately describe the fauna, the habitats have been separated into terrestrial and aquatic. The latter has been grossly divided into freshwater (swamp and stream) and brackish/saline (mangroves and estuary) habitats. A degree of overlap does occur through tidal influence but this has been ignored in this review.

2.2 Terrestrial Fauna

A rich and diverse fauna utilise the region. Dwyer and Associates assessed the variety of mammals, birds and reptiles in 1980. The Casuarina Recreation Reserve Management Plan published by the CCNT, and a current list from their Biological Data Base. form a basis for this survey. Species most likely to occur in the whole region are listed in Appendix 1.1.

2.3 Freshwater fauna

A diverse range of organisms utilise freshwater habitats. The fauna in the Northern Territory is not likely to be very different from any other Australian region. While different species will occur, the basic structure of the communities are essentially composed of the same specialised groups of animals. This survey provides a list of species which have been encountered in the Top End.

Annelid worms

The diversity of fauna living in freshwater is unknown and can only be assessed when the fauna list is provided from the museum (Dr Russell Hanley). There is a large fauna list for mangrove and estuarine habitats, compiled from EIS studies conducted in the N.T.

Snails and Mussels

Australia's aquatic molluscs have been well documented. An comprehensive list of most of the species occurring within Northern Australia, has been compiled from the Museum and Smith (1992). (Appendix 2.1)

Insects

Some of the insects have been identified from adult specimens located within the Darwin region. The Order Odonata (Dragonflies) and Trichoptera (Caddis-flies) have been described Australia wide. Specimens in the Northern Territory have been identified from adults captured within a 50 km radius of Darwin. The museum collection has very few specimens from the other Orders identified; these include the Collembola, Hemiptera, Diptera, Coleoptera, Megaloptera, and Neuroptera. The fauna list is compiled from the N.T. Museum, the Department of Primary Industry and published reports of species occurring in the Alligator Rivers region (Magela Creek). (Appendix 2.1)

Crustaceans

A brief reconnaissance of the freshwater stream revealed the presence of a large number of crustaceans. Many of these species have a wide distribution throughout Northern Australia. Julli (1986), Marchant (1982) and Williams (1979,1980) provided the basis for assembling this list. (Appendix 2.1)

Aquatic vertebrates (Fish)

There have been no previous surveys in Rapid Creek. The list (Appendix 2.2) is suggestive of species most likely to be encountered in streams or swamps. This has been compiled from Larson & Martin (1990), and species located within Howard Springs (CCNT 1992) and Magela Creek. (Marchant 1982). It is probable that the diversity of fish within Rapid Creek would be reduced because of its small size.

2.4 Mangrove and Estuarine Fauna

The Invertebrate benthic and littoral fauna were surveyed by Dwyer and Associates in 1980 (Appendix 3.1). The Conservation Commission compiled a list of vertebrates occurring in the mangroves and estuary of Casuarina in 1991 (Appendix 3.2).

3. Environmental Impact on biological communities

In Darwin, man has many direct effects on the natural ecosystems and the biological communities within and surrounding the metropolitan area. While this survey's primary aim is to provide a guide to the diversity of animals living within the different habitats of Rapid Creek, brief field observations in the area have highlighted a number of factors having noticeable impacts on terrestrial and aquatic biological communities. This brief list is provided to assist in developing management strategies to maintain the biodiversity of animal communities within the region.

3.1 Terrestrial

Environmental Impacts on the Terrestrial Habitats

1. The continued habitat loss through development.
The maintenance of habitat diversity (Botanical Assessment) is of primary importance.
2. The impact of feral animals (eg. feral pig, domestic dog and cat)
-The feral pig is known to have a significant effect on river catchments, damaging water bodies and destroying vegetation. The domestic dog and more importantly the cat have a large impact on native reptiles, birds and mammals.
3. The effect of land fill and refuse
- Habitat Loss.
4. Human and recreational impact
- Unknown.
5. Fire Management
-Effect on animal communities is unknown. It must influence the viability of small populations of reptiles, birds and mammals in the area.

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Appendix 1.1 Terrestrial Invertebrates of Rapid Creek

Order Lepidoptera	Butterflies
Family: Papilionidae	
<i>Cressida cressida cassandra</i>	
<i>Graphium euryphus lycaon</i>	Pale Green Butterfly
<i>Papilio canopus canopus</i>	Northern Citrus Butterfly
Family: Pieridae	
<i>Appias paulina ega</i>	
<i>Catopsilia scylla etesia</i>	
<i>Catopsilia pomona pomona</i>	Cassia Butterfly
<i>Delias argenthona fragalactea</i>	
<i>Elodina perdita walkeri</i>	
<i>Eurema hecabe phoebus</i>	
Family: Nymphalidae	
<i>Cethosia penthesilia paksa</i>	
<i>Danaus affinis affinis</i>	
<i>Danaus chrysippus petilia</i>	Lesser Wanderer Butterfly
<i>Danaus hamatus hamatus</i>	
<i>Euploea core corrina</i>	Oleander Butterfly
<i>Hypocystaadiante antirius</i>	
<i>Hypolimnas bolina nerina</i>	
<i>Hypolimnas missipus</i>	
<i>Junonia hedonia zelina</i>	
<i>Junonia orythyia albicincta</i>	
<i>Melanitis leda bankia</i>	Evening Brown Butterfly
<i>Phalantha phalantha araca</i>	
Family: Lycaenidae	
<i>Candalidea erinus erinus</i>	

CCNT (1991)

Appendix 1.2 Terrestrial Vertebrates of Rapid Creek

Class: Amphibia	
Family: Hylidae	
<i>Cyclorana australi</i>	
<i>Litoria bicolor</i>	Northern Dwarf Tree Frog
<i>Litoria caerulea</i>	Green Tree Frog
<i>Litoria dahlia</i>	
<i>Litoria inermis</i>	
<i>Litoria microbelos</i>	
<i>Litoria nasuta</i>	Rocket Frog
<i>Litoria rothii</i>	
<i>Litoria rubella</i>	Desert Tree Frog
<i>Litoria tornieri</i>	

Family: Leptodactylidae

<i>Limnodynastes convexiusculus</i>	Marbled Frog
<i>Limnodynastes ornatus</i>	Ornate Burrowing Frog
<i>Notaden melanoscaphus</i>	Northern Spadefoot Toad
<i>Platyplectron omatus</i>	
<i>Ranidella bilingua</i>	
<i>Uperoleia inundata</i>	
<i>Uperoleia lithomoda</i>	

CCNT (1992); Tyler and Davies (1986)

Class: Reptilia

Family: Agamidae

<i>Chamydosaurus kingii</i>	Frilled Lizard
<i>Diporiphora bilineata</i>	Two-Lined Dragon
<i>Lophognathus gilberti</i>	
<i>Lophognathus temporalis</i>	Northern Water Dragon

Family: Boidae

<i>Bothrochilus olivaceus</i>	Olive Python
<i>Liasis childreni</i>	Children's Python
<i>Liasis mackloti</i>	
<i>Morelia spilota</i>	Carpet Python

Family: Colubridae

<i>Amphiesma mairii</i>	Freshwater Snake
<i>Boiga irregularis</i>	Brown tree Snake
<i>Dendrelaphis punctulatis</i>	Common tree Snake
<i>Fordonia leucobalia</i>	White bellied Mangrove Snake
<i>Myron richardsoni</i>	Mangrove Snake

Family: Elapidae

<i>Cryptophis pallidiceps</i>	Northern Small-Eyed Snake
<i>Demansia olivacea</i>	Whip Snake
<i>Furina diadema</i>	Red-Naped Snake
<i>Pseudonaja nuchalis</i>	Western Brown Snake
<i>Cererus australis</i>	

Family: Gekkonidae

<i>Hemidactylus frenatus</i>	House Gecko
<i>Heteronotia binoei</i>	Bynoe's Gecko
<i>Oedura rhombifer</i>	

Family: Hydrophiidae

<i>Hydrelaps darwinensis</i>	
<i>Hydrelaps elegans</i>	

Family: Pygopodidae

<i>Delma botea</i>	Legless Lizard
<i>Lialis burtonis</i>	Burton's Snake-Lizard

Family: Scincidae

<i>Carlia amax</i>	
<i>Carlia foliorum</i>	
<i>Carlia gracilis</i>	Four-Fingered Skink
<i>Carlia rufilatus</i>	
<i>Ctenopus essingtoni</i>	

Family: Scincidae (cont.)	
<i>Sphenomorphus crassicaudus</i>	
<i>Sphenomorphus isolepis</i>	
<i>Tiliqua scincoides</i>	Eastern Blue-tongued Lizard
Family: Varanidae	
<i>Varanus gouldii</i>	Gould's Goanna
<i>Varanus mitchelli</i>	Mitchell's Water Monitor
<i>Varanus timorensis</i>	Spotted Tree Monitor
	CCNT (1993)
Class Avies	Birds
Family: Acanthizidae	
<i>Gerygone chloronata</i>	Green-Backed Gerygone
<i>Gerygone laevigaster</i>	Mangrove Gerygone
<i>Gerygone magnirostris</i>	Large-Billed Gerygone
<i>Gerygone olivacea</i>	White-Throated Gerygone
<i>Smicrornis brevirostris</i>	Weebill
Family: Accipitridae	
<i>Accipiter cirrhocephalus</i>	Collared Sparrowhawk
<i>Accipiter fasciatus</i>	Brown Goshawk
<i>Aquila audax</i>	Wedge Tailed Eagle
<i>Aviceda subcristata</i>	Pacific Baza
<i>Circus approximans</i>	Marsh Harrier
<i>Circus assimilis</i>	Spotted Harrier
<i>Elanus notatus</i>	Black-shouldered Kite
<i>Haliaeetus leucogaster</i>	White Bellied Sea-eagle
<i>Hamirostra melanosternon</i>	Black-breasted Buzzard
<i>Milvus indus</i>	Brahminy Kite
<i>Milvus migrans</i>	Black Kite
<i>Milvus sphenurus</i>	Whistling Kite
<i>Pandion haliaetus</i>	Osprey
Family: Aegothelidae	
<i>Aegotheles cristatus</i>	Australian Owlet Night-jar
Family: Alaudidae	
<i>Mirafra javanica</i>	Singing bushlark
Family: Alcedinidae	
<i>Alcedo azurea</i>	Azure Kingfisher
<i>Alcedo pusilla</i>	Little Kingfisher
<i>Dacelo leachii</i>	Blue-winged Kookaburra
<i>Halcyon chloris</i>	Collared Kingfisher
<i>Halcyon pyrrhopygia</i>	Red-backed Kingfisher
<i>Todiramphus macleayii</i>	Forest Kingfisher
<i>Todiramphus sancta</i>	Sacred Kingfisher
Family: Anatidae	
<i>Anas gibberifrons</i>	Grey Teal
<i>Anas superciliosa</i>	Pacific Black Duck
<i>Anseranas semipalmata</i>	Magpie Goose
<i>Aythya australis</i>	Hardhead
<i>Dendrocygna arcuata</i>	Wandering Whistling duck

Family: Scincidae (cont.)

*Sphenomorphus crassicaudus**Sphenomorphus isolepis**Tiliqua scincoides*

Eastern Blue-tongued Lizard

Family: Varanidae

Varanus gouldii

Gould's Goanna

Varanus mitchelli

Mitchell's Water Monitor

Varanus timorensis

Spotted Tree Monitor

CCNT (1993)

Class Avies

Birds

Family: Acanthizidae

Gerygone chloronata

Green-Backed Gerygone

Gerygone laevigaster

Mangrove Gerygone

Gerygone magnirostris

Large-Billed Gerygone

Gerygone olivacea

White-Throated Gerygone

Smicrornis brevirostris

Weebill

Family: Accipitridae

Accipiter cirrhocephalus

Collared Sparrowhawk

Accipiter fasciatus

Brown Goshawk

Aquila audax

Wedge Tailed Eagle

Aviceda subcristata

Pacific Baza

Circus approximans

Marsh Harrier

Circus assimilis

Spotted Harrier

Elanus notatus

Black-shouldered Kite

Haliaeetus leucogaster

White Bellied Sea-eagle

Hamirostra melanosternon

Black-breasted Buzzard

Milvus indus

Brahminy Kite

Milvus migrans

Black Kite

Milvus sphenurus

Whistling Kite

Pandion haliaetus

Osprey

Family: Aegothelidae

Aegotheles cristatus

Australian Owlet Night-jar

Family: Alaudidae

Mirafra javanica

Singing bushlark

Family: Alcedinidae

Alcedo azurea

Azure Kingfisher

Alcedo pusilla

Little Kingfisher

Dacelo leachii

Blue-winged Kookaburra

Halcyon chloris

Collared Kingfisher

Halcyon pyrrhopygia

Red-backed Kingfisher

Todiramphus macleayii

Forest Kingfisher

Todiramphus sancta

Sacred Kingfisher

Family: Anatidae

Anas gibberifrons

Grey Teal

Anas superciliosa

Pacific Black Duck

Anseranas semipalmata

Magpie Goose

Aythya australis

Hardhead

Dendrocygna arcuata

Wandering Whistling duck

Family: Anatidae (cont.)	
<i>Dendrocygna eytoni</i>	Plumed Whistling Duck
<i>Nettapus pulchellus</i>	Green Pygmy-goose
<i>Tadorna radjah</i>	Radjah Shelduck
Family: Anhingidae	
<i>Anhinga melanogaster</i>	Darter
Family: Apodidae	
<i>Apus pacificus</i>	Fork-tailed Swift
Family: Ardeidae	
<i>Ardea alba</i>	Great Egret
<i>Ardea garzetta</i>	Little Egret
<i>Ardea ibis</i>	Cattle Egret
<i>Ardea intermedia</i>	Intermediate Egret
<i>Ardea novaehollandiae</i>	White-faced Heron
<i>Ardea pacifica</i>	Pacific Heron
<i>Ardea picata</i>	Pied Heron
<i>Ardea sacra</i>	Eastern Reef Egret
<i>Ardea sumatrana</i>	Great-billed Heron
<i>Ardeola striatus</i>	Striated Heron
<i>Ixobrychus flavicollis</i>	Black Bittern
<i>Nycticorax caledonicus</i>	Rufous Night Heron
Family: Artamidae	
<i>Artamus leucorhynchus</i>	White-breasted Woodswallow
Family: Burhinidae	
<i>Burhinus grallarius</i>	Bush Thick-knee
<i>Esacus magnirostris</i>	Beach Thick-knee
Family: Campephagidae	
<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike
<i>Coracina papuensis</i>	White-bellied Cuckoo-shrike
<i>Coracina tenuirostris</i>	Cicadabird
<i>Lalage leucomela</i>	Varied Triller
<i>Lalage sueurii</i>	White-winged Triller
Family: Caprimulgidae	
<i>Eurostopodus argus</i>	Spotted Nightjar
<i>Caprimulgus macrurus</i>	Large-tailed Nightjar
Family: Charadriidae	
<i>Charadrius leschenaultii</i>	Large Sand Plover
<i>Charadrius mongolus</i>	Mongolian Plover
<i>Charadrius ruficapillus</i>	Red-capped Plover
<i>Charadrius veredus</i>	Oriental Plover
<i>Erythrogonys cinctus</i>	Red-kneed Dotterel
<i>Pluvialis dominica</i>	Lesser Golden Plover
<i>Pluvialis squatarola</i>	Grey Plover
<i>Vanellus miles</i>	Masked Plover (Lapwing)
Family: Ciconiidae	
<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork (Jabiru)
Family: Columbidae	
<i>Chalcophaps indica</i>	Emerald Ground-dove
<i>Columba livia</i>	Feral Pigeon

Family: Columbidae (cont.)	
<i>Ducula bicolor</i>	Torresian Imperial Pigeon
<i>Geopelia humeralis</i>	Bar-shouldered Dove
<i>Geopelia placida</i>	Peaceful Dove
<i>Ptilinopus regina</i>	Rose-crowned Fruit-dove
Family: Corvidae	
<i>Corvus orru</i>	Torresian Crow
Family: Cracticidae	
<i>Cracticus nigrogularis</i>	Pied Butcherbird
<i>Cracticus quoyi</i>	Black Butcherbird
Family: Cuculidae	
<i>Cuculus variolosus</i>	Brush Cuckoo
<i>Centropus phasianinus</i>	Pheasant Coucal
<i>Chrysococcyx basalis</i>	Horsfield's Bronze-cuckoo
<i>Chrysococcyx minutillus</i>	Little Bronze-cuckoo
<i>Cuculus pallidus</i>	Pallid Cuckoo
<i>Cuculus saturatus</i>	Oriental Cuckoo
<i>Eudynamys scolopacea</i>	Common Koel
<i>Scythrops novaehollandiae</i>	Channel-billed Cuckoo
Family: Dicaeidae	
<i>Dicaeum hirundinaceum</i>	Mistletoe Bird
Family: Dicruridae	
<i>Dicrurus bracteatus</i>	Spangled Drongo
Family: Falconidae	
<i>Falco berigora</i>	Brown Falcon
<i>Falco cenchroides</i>	Australian Kestrel
<i>Falco longipennis</i>	Australian Hobby
<i>Falco peregrinus</i>	Peregrine Falcon
<i>Falco subniger</i>	Black Falcon
Family: Fregatidae	
<i>Fregata ariel</i>	Least Frigatebird
<i>Fregata minor</i>	Great Frigatebird
Family: Glareolidae	
<i>Glareola maldivarum</i>	Oriental Pratincole
<i>Stiltia isabella</i>	Australian Pratincole
Family: Grallinidae	
<i>Grallina cyanoleuca</i>	Australian Magpie-lark
Family: Gruidae	
<i>Grus rubicundus</i>	Brolga
Family: Haematopodidae	
<i>Haematopus ostralegus</i>	Pied Oystercatcher
Family: Hirundinidae	
<i>Hirundo ariel</i>	Fairy Martin
<i>Hirundo nigricans</i>	Tree Martin
Family: Jacanidae	
<i>Irediparra gallinacea</i>	Comb-crested Jacana
Family: Laridae	
<i>Chlidonias hybrida</i>	Whiskered Tern
<i>Chlidonias leucoptera</i>	White-winged Tern

Family: Laridae (cont.)

Larus novaehollandiae

Sterna albifrons

Sterna anaethetus

Sterna bengalensis

Sterna bergii

Sterna caspia

Sterna dougallii

Sterna hirundo

Sterna nilotica

Silver Gull

Little Tern

Bridled Tern

Lesser Crested Tern

Crested Tern

Caspian Tern

Roseate Turn

Common Teal

Gull-billed Tern

Family: Maluridae

Cinclorhamphus cruralis

Malurus melanocephalus

Brown Songlark

Red-backed Fairy-Wren

Family: Motacillidae

Anthus novaeseelandiae

Motacilla flava

Richard's Pipit

Yellow Wagtail

Family: Megapodiidae

Megapodius reinwardt

Orange-footed Scrubfowl

Family: Meliphagidae

Conopophila albogularis

Entomyzon cyanotis

Lichenostomus unicolor

Lichmera indistincta

Manorina flavigula

Meliphaga albilineata

Melithreptus albogularis

Myzomela erythrocephala

Myzomela obscura

Philemon argenticeps

Philemon buceroides

Philemon citreogularis

Ramsayornis fasciatus

Rufous-banded Honeyeater

Blue-faced Honeyeater

White-gaped Honeyeater

Brown Honeyeater

Yellow-throated Miner

White-lined Honeyeater

White-throated Honeyeater

Red-headed Honeyeater

Dusky Honeyeater

Silver-crowned Friarbird

Helmeted Friarbird

Little Friarbird

Bar-breasted Honeyeater

Family: Meropidae

Eurystornus orientalis

Merops ornatus

Dollarbird

Rainbow Bee-eater

Family: Muscicapidae

Colluricincla megarhyncha

Eopsaltria pulverulenta

Microeca flavigaster

Myiagra alecto

Myiagra inquieta

Myiagra rubecula

Myiagra ruficollis

Pachycephala simplex

Rhipidura leucophrys

Rhipidura rufiventris

Little Shrike-thrush

Mangrove Robin

Lemon-bellied Flycatcher

Shining Flycatcher

Restless Flycatcher

Leaden Flycatcher

Broad-billed Flycatcher

Grey Whistler

Willie Wagtail

Northern Fantail

Family: Oriolidae	
<i>Oriolus flavocinctus</i>	Yellow Oriole
<i>Oriolus sagittatus</i>	Olive-backed Oriole
<i>Sphecotheres viridis</i>	Figbird
Family: Otididae	
<i>Ardeotis australis</i>	Australian Bustard
Family: Pardalotidae	
<i>Pardalotus striatus</i>	Striated Pardalote
Family: Pelecanidae	
<i>Pelecanus conspicillatus</i>	Australian Pelican
Family: Phalacrocoracidae	
<i>Phalacrocorax carbo</i>	Great Cormorant
<i>Phalacrocorax melanoleucos</i>	Little pied Cormorant
<i>Phalacrocorax sulcirostris</i>	Little black Cormorant
<i>Phalacrocorax varius</i>	Pied Cormorant
Family: Phasianidae	
<i>Coturnix chinensis</i>	King Quail
<i>Coturnix australis</i>	Brown Quail
Family: Pittidae	
<i>Pitta iris</i>	Rainbow Pitta
Family: Plataleidae	
<i>Platalea flavipes</i>	Yellow-billed Spoonbill
<i>Platalea regia</i>	Royal Spoonbill
<i>Plegadis falcinellus</i>	Glossy Ibis
<i>Threskiornis aethiopica</i>	Sacred Ibis
<i>Threskiornis spinicollis</i>	Straw-Necked Ibis
Family: Ploceidae	
<i>Lonchura castaneothorax</i>	Chestnut-Breasted mannikin
<i>Lonchura flaviprymna</i>	Yellow-rumped Mannikin
<i>Neochmia phaeton</i>	Crimson Finch
<i>Poephila acuticauda</i>	Long-tailed Finch
<i>Taeniopygia bichenovii</i>	Double-barred Finch
Family: Podargidae	
<i>Podargus strigoides</i>	Tawny Frogmouth
Family: Podicipedidae	
<i>Tachybaptus novaehollandiae</i>	Australian Grebe
Family: Procellariidae	
<i>Puffinus pacificus</i>	Wedge-tailed Shearwater
Family: Psittacidae	
<i>Aprosmictus erythropterus</i>	Red-winged Parrot
<i>Cacatua galerita</i>	Sulphur-crested Cockatoo
<i>Cacatua roseicapilla</i>	Galah
<i>Cacatua pastinator</i>	Little Corella
<i>Calyptorhynchus banksii</i>	Red-tailed Black-cockatoo
<i>Leptolophus hollandicus</i>	Cockatiel
<i>Platycercus venustus</i>	Northern Rosella
<i>Psitteuteles versicolor</i>	Varied Lorikeet
<i>Trichoglossus rubritorquis</i>	Red Collared Lorikeet

Family: Ptilonorhynchidae	
<i>Chlamydera nuchalis</i>	Great Bowerbird
Family: Rallidae	
<i>Amaurornis olivacea</i>	Bush-hen
<i>Eulabeornis castaneiventris</i>	Chestnut Rail
<i>Gallirallus philippensis</i>	Buff-banded Rail
<i>Poliolimnas cinereus</i>	White-browed Crake
<i>Porphyrio porphyrio</i>	Purple Swamphen
<i>Porzana pusilla</i>	Baillon's Crake
Family: Recurvirostridae	
<i>Himantopus himantopus</i>	Pied Stilt
Family: Scolopacidae	
<i>Actitis hypoleucos</i>	Common Sandpiper
<i>Arenaria interpres</i>	Ruddy Turnstone
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper
<i>Calidris alba</i>	Sanderling
<i>Calidris canutus</i>	Red knot
<i>Calidris ferruginea</i>	Curlew Sandpiper
<i>Calidris minuta</i>	Little Stint
<i>Calidris ruficollis</i>	Red necked Stint
<i>Calidris tenuirostris</i>	Great Knot
<i>Gallinago megala</i>	Swinhoe's Snipe
<i>Gallinago stenura</i>	Pin-tailed Snipe
<i>Limosa lapponica</i>	Bar-tailed Godwit
<i>Limosa limosa</i>	Black-tailed Godwit
<i>Numenius madagascariensis</i>	Eastern Curlew
<i>Numenius minutus</i>	Little Curlew
<i>Numenius phaeopus</i>	Whimbrel
<i>Tringa brevipes</i>	Grey-tailed Tattler
<i>Tringa glareola</i>	Wood Sandpiper
<i>Tringa incana</i>	Wandering Tattler
<i>Tringa nebularia</i>	Greenshank
<i>Tringa stagnatilis</i>	Marsh Sandpiper
<i>Xenus cinereus</i>	Terek Sandpiper
Family: Strigidae	
<i>Ninox connivens</i>	Barking Owl
<i>Ninox noveseelandiae</i>	Southern Boobook
Family: Sulidae	
<i>Sula leucogaster</i>	Brown Booby
Family: Sylviidae	
<i>Acrocephalus arundinaceus</i>	Great reed-Warbler
<i>Acrocephalus stentoreus</i>	Clamorous Reed Warbler
<i>Cisticola exilis</i>	Golden-Headed Cisticola
<i>Cisticola juncidis</i>	Zitting Cisticola
<i>Megalurus timoriensis</i>	Tawny Grassbird
Family: Turnicidae	
<i>Turnix maculosa</i>	Red-backed Button-quail
<i>Turnix pyrrhothorax</i>	Red-chested Button-quail

Family: Tytonidae	
<i>Tyto alba</i>	Barn Owl
Family: Zosteropidae	
<i>Zosterops lutea</i>	Yellow White Eye
	CCNT (1993); Simpson & Day (1989)
Class: Mammalia	
Family: Bovidae	
<i>Bubalus bubalus</i>	Water Buffalo
Family: Canidae	
<i>Canis familiaris</i>	Dog, Dingo
Family: Dasyuridae	
<i>Dasyurus hallucatus</i>	Northern Quoll
Family: Emballonuridae	
<i>Taphozous flaviventris</i>	Yellow-bellied Sheath-tail Bat
Family: Equidae	
<i>Equus caballus</i>	Feral Horse
Family: Felidae	
<i>Felis catus</i>	Feral Cat
Family: Macropodidae	
<i>Macropus agilis</i>	Agile Wallaby
<i>Macropus antilopinus</i>	Antilopine Wallaroo
Family: Megadermatidae	
<i>Macroderma gigas</i>	Ghost Bat
Family: Molossidae	
<i>Chaerophon jobensis</i>	Northern Mastiff-bat
Family: Muridae	
<i>Hydromys chrysogaster</i>	Water Rat
<i>Melomys burtoni</i>	Grass Melomys
<i>Melomys littorali</i>	Grassland Melomys
<i>Mesembriomys gouldii</i>	Black Footed Tree Rat
<i>Mus musculus</i>	House Mouse
<i>Rattus colletti</i>	Dusky Rat
<i>Rattus rattus</i>	Black Rat
<i>Rattus tunneyi</i>	Pale Field-Rat
Family: Peramelidae	
<i>Isodon macrourus</i>	Northern Brown Bandicoot
Family: Petauridae	
<i>Petaurus breviceps</i>	Sugar Glider
Family: Phalangeridae	
<i>Trichosurus arnhemensis</i>	Northern Brushtail Possum
Family: Pteropodidae	
<i>Macroglossus lagochilus</i>	Northern Blossom-Bat
<i>Pteropus alecto</i>	Black Flying-fox
<i>Pteropus scapulatus</i>	Little Red Flying fox
Family: Suidae	
<i>Sus scrofa</i>	Feral Pig

Family: Tachyglossidae	
<i>Tachyglossus aculeatus</i>	Short-beaked Echidna
Family: Vespertilionidae	
<i>Chalinolobus gouldi</i>	Gould's Wattled Bat
<i>Chalinolobus nigrogriseus</i>	Hoary Bat
<i>Eptesicus pumulis</i>	Little cave Eptesicus
<i>Miniopterus schreibersii</i>	Common Bent-wing Bat
<i>Myotis adversus</i>	Large-footed Mouse Eared Bat
<i>Nycticeius greyii</i>	Little broad-nosed Bat
<i>Nyctophilus arnhemensis</i>	Arnhem Land Long-eared Bat
<i>Nyctophilus geoffroyi</i>	Lesser Long-eared Bat
	CCNT (1993)

Appendix 2.1 Freshwater Macro-invertebrates of Rapid Creek

Phylum: Porifera	Sponges
<i>Pectispongilla botryoides</i>	
Phylum Annelida	
Class: Hirudinea	Leeches
<i>Glossiphoniidae sp.A</i>	
<i>Richardsonianidae sp.A</i>	
Phylum: Chelicerata	
Class: Arachnida	Spiders
Order: Araneae	
Family: Pisauridae	
<i>Dolomedes sp.</i>	
Class: Crustacea	
Subclass: Branchiopoda	
Order: Cladocera	Water Fleas
Family: Bosminidae	
<i>Bosmina meridionalis</i>	
<i>Bosminopsis deitersi</i>	
Family: Chydoridae	
<i>Alona davidi</i>	
<i>Alona monacantha</i>	
<i>Alonella clathratula</i>	
<i>Australochydorus aporus</i>	
<i>Biapertura karua</i>	
<i>Biapertura kendallensis</i>	
<i>Biapertura macrocopa</i>	
<i>Biapertura rigidicaudis</i>	
<i>Biapertura verrucosa</i>	
<i>Camptocerus australis</i>	
<i>Chydorus eurynotus</i>	
<i>Dadayamacrops</i>	
<i>Dunhevedia crassa</i>	
<i>Ephemeroporus barroisi</i>	

Family:Chydoridae (cont.)

Euryalona orientalis
Graptoleberis testudinaria
Kurzia longirostris
Leydigia acanthocercoides
Oxyurella singalensis

Family:Daphniidae

Ceriodaphnia cornuta
Scapholeberis kingi
Simocephalus latirostris
Simocephalus serrulatus

Family:Macrothricidae

Echinisca triserialis
Echinisca williams
Ilyocryptus spinifer
Macrothrix hystrix
Macrothrix spinosa
Streblocerus serricaudatus

Family:Moinidae

Moina micrura
Moinodaphnia macleayi

Family: Sididae

Diaphanosoma excisum
Diaphanosoma sarsi
Latonopsis australis
Latonopsis brehmi
Latonopsis fasciculata
Pseudosida bidentata

Subclass:Copepoda

Order: Calanoida

Calanoid Copepods

Family:Calanidae

Calamoecia ultima

Family: Diaptomidae

Diaptomus australis
Diaptomus lumholtzi

Order: Cyclopoida

Cyclopoid Copepods

Family:Cyclopoidae

Ectocyclops sp.
Mesocyclops aspericornis
Mesocyclops decipiens
Mesocyclops leuckarti
Microcyclops varicans

Julli (1986)

Subclass: Malacostraca

Order: Decapoda

Family: Atyidae

Freshwater Shrimps

Caridina sp. A

- Family: Palamonidae Freshwater Prawns
Macrobrachium rosenbergii
Macrobrachium sp. A
Macrobrachium sp. B
Palaemon spp.
- Family: Parastacidae
Cherax quadricarinatus Redclaw
- Family: Sundathelphusidae
Holthusiana transversa Freshwater Crab
Marchant (1982)
- Phylum: Uniramia
Order: Ephemeroptera Mayflies
Family: Baetidae
Atalonella sp.A
Baetis sp.A
Centroptilum sp.A
Cloeon fluviatile
Thraulius sp.A
- Family:Caenidae
Tasmanocoenis sp.A
Tasmanocoenis sp.B
- Order: Odonata N.T.Museum
Dragonflies
Family:Coenagrionodae
Agriocnemis pygmaea
Austrognacantha heterogena
Ceriagrion aeruginosum
Ischnura heterosticta heterosticta
Ischnura pruinescens
Pseudagrion microcephalum
- Family: Aeshnidae
Anax guttatus
Hemianax papuensis
- Family: Gomphidae
Ictinogomphus australis
- Family: Corduliidae
Pentathemis membranulata
- Family: Libellulidae
Aethriamanta circumsignata
Agrionoptera insignis allogenens
Brachydiplax denticauda
Crocothemis nigrifrons
Diplacodes bipunctata
Diplacodes haematodes
Diplacodes nebulosa
Diplacodes trivialis
Hydrobasileus brevistylus
Nannodiplax rubra

Family: Libellulidae (cont.)*Neurothemis stigmatizans stigmatizans**Orthetrum caladonicum**Orthetrum sabina sabina**Pantala flavescens**Potamarcha congener**Rhodothemis lieftincki**Rhodothemis braganza**Rhodothemis graphiptera**Tholymis tillarga**Trapezostigma loewii*

N.T. Museum

Order: Trichoptera**Caddisflies****Family: Philopotamidae***Chimarra uranka**Chimarra sp. A**Chimarra sp. B**Chimarra sp. C***Family: Hydroptilidae***Tricholeiochiton bifurca***Family: Calamoceratidae***Anisocentropus banghaasi**Anisocentropus muricat***Family: Leptoceridae***Leptocerus atsou***Family: Ecnomidae***Ecnomus miriwud**Ecnomus tropilus**Ecnomus ancisus*

N.T. Museum

Order: Hemiptera**Family: Corixidae****Water Boatmen***Agraptocorixa halei**Agraptocorixa sp. A**Agraptocorixa sp. B***Family: Belostomatidae****Giant Water Bugs***Lethocerus distinctifemur sp.**Lethocerus insulanus sp.**Lethocerus sp. A**Diplanychus sp. A***Family: Gerridae****Water Striders***Limnogonus sp.**Rhagadotarus sp.**Rheumatometra sp.***Family: Hydrometridae***Hydrometra sp.***Family: Naucoridae***Naucoris sp. A*

Family: Nepidae Water Scorpion

Ranatra diminuta

Family: Notonectidae Backswimmers

Nychia marshalli

Anisops paracrinata

Anisops spinloa

Anisops stali

Anisops nasuta

Enithares spinola

Enithares loria

Enithares sp. A

Enithares sp. B

Enithares sp. C

Family: Pleidae

Plea brunni

Family: Veliidae

Rhagovelia sp.

Dep. I Industries, N.T.Museum; Marchant (1982)

Order: Diptera Flies & Mosquitoes
See Appendix

Order: Coleoptera Beetles

Family: Dytiscidae Water Beetles

Hydronatus rufoniger

Hydroparini porroster sp.

Liodessus sp.

Family: Gyridae Whirligig Beetles

Dineutus neohollandicus

Gyrinus convexiusculus

Family: Haliplidae

Haliplus sp. A

Family: Hydrophilidae Water Beetles

Amphiops australicus

Berosus australiae

Berosus debilipennis

Berosus pycepiens

Berosus pulchellus

Berosus trisha

Berosus macumbensis

Helochares clypeatus

Helochares lowrye

Helochares tatei

Hydrochos sp.

Hydrophilus brevispinna

Family: Hygribiidae

Hygrobia maculata

Family: Noteridae

Hydrocanthus australasiae

Family: Spercheidae
Spercheus platycephalus

Family: Staphylinidae

Gyrophaena sp.

Aleochara sp.

Oxytelus sp.

Bledius sp.

Rove Beetles

NT Museum; Dep I Ind; Marchant (1982)

Order: Neuroptera

Family: Sisyridae

Sisyra sp.

Sponge-flies

Phylum: Mollusca

Class: Bivalvia

Family: Hyriidae

Velesunio angisii

Velesunio wilsonii

Freshwater Mussels

Class: Gastropoda

Family: Ancyliidae

Ferrissia petterdi

Family: Lymnaeidae

Austropeplea lessoni

Family: Planorbidae

Amerianna bonushenricus

Amerianna cumingi

Isodorella newcombi

Glyptophysa badia

Helicorbis meniscoides

Family: Thiaridae

Melanoides (Melanoides) tuberculata

Thiara amarula

Family: Viviparidae

Notopala essingtonensis

Notopala waterhousii

N.T.Museum; Marchant (1982); Smith (1992)

Appendix 2.2 Freshwater Vertebrates of Rapid Creek

Class: Pisces

Fish

Family: Megalopidae

Megalops cyprinoides

Ox-eye Herring

Family: Clupeidae

Nematalosa erebi

Bony Bream

Family: Ariidae

Arius graeffei

Blue Catfish

Family: Plotosidae	
<i>Neosilurus hyrtl</i>	Hyrtl's Catfish
<i>Porochilus rendahli</i>	Rendahli's Catfish
Family: Belonidae	
<i>Strongylura krefftii</i>	Freshwater Longtom
Family: Melanotaeniidae	
<i>Melanotaenia nigrans</i>	Black-Banded Rainbow Fish
<i>Melanotaenia splendida australis</i>	Red-Tailed Rainbow Fish
Family: Pseudomugilidae	
<i>Pseudomugil tenellus</i>	Delicate Blue-eye
Family: Atherinidae	
<i>Craterocephalus stercusmuscarum</i>	Fly-specked Hardyhead
Family: Chandidae	
<i>Ambassis agrammus</i>	Sail-fin Glassfish
<i>Denarius bandata</i>	Penny Fish
Family: Centropomidae	
<i>Lates calcarifer</i>	Barramundi
Family: Terapontidae	
<i>Leiopotherapon unicolor</i>	Spangled Grunter
<i>Amniataba percoides</i>	Banded Grunter
Family: Apogonidae	
<i>Glossamia aprion</i>	Mouth Almighty
Family: Toxotidae	
<i>Toxotes chatareus</i>	Common Archerfish
Family: Scatophagidae	
<i>Selenotoca multifasciata</i>	Striped Scat
Family: Gobiidae	
<i>Glossogobius giuris</i>	Flathead Goby
Family: Eleotrididae	
<i>Hypseleotris compressa</i>	Empire Gudgeon
<i>Mogunda mogurnda</i>	Purple-spotted Gudgeon
<i>Oxyeleotris lineolata</i>	Sleepy Cod
<i>Oxyeleotris nullipora</i>	Dwarf Gudgeon
<i>Oxyeleotris sp.</i>	Black-banded Gudgeon

Larson and Martin (1990)

Appendix 3.1 Invertebrates of Rapid Creek Mangroves and Estuary

Class: Polychaeta

Amaena trilobata
Laonome sp.
Leitoscoloplus simplex
Lumbrinereis sp.
Lysilla sp.
Magelon sp.
Marphysa sanguinea
Nephtys vikingensis
Owenia sp.
Phyllodoce sp.

Class: Polychaeta (cont.)	
<i>Sigalion sp.</i>	Dwyer (1980)
Class: Crustacea	
Order: Thoracica	Barnacles
<i>Balanus sp.</i>	
<i>Tetraclita sp.</i>	
Class Malacostraca	
Order: Tanaidacea	
<i>Apseudes estuarius</i>	
Order Isopoda	
Family: Sphaeromidae	Sand Lice
Order: Decapoda	
Family: Alpheidae	Pistol Shrimps
<i>Alpheus sp.</i>	
Family: Callinassidae	Mud Shrimps
<i>Callinassa sp.</i>	
Family: Diogenidae	Hermit Crabs
<i>Clibanarius virescens</i>	
Family: Grapsidae	Shore Crabs
<i>Helice leachii</i>	
<i>Helice sp.</i>	
<i>Metapograpsus messor</i>	Broad-fronted Mangrove Crab
<i>Metapograpsus sp.</i>	
<i>Sesarma guttata</i>	Mangrove Crabs
<i>Sesarma meinerti</i>	
<i>Sesarma semperi</i>	
<i>Sesarma smithii</i>	
Family: Mictyridae	Soldier Crabs
<i>Mictyris longicarpus</i>	
Family: Ocypodidae	Stalk-eyed Crabs
<i>Cleistostoma wardii</i>	
<i>Macrophthalmus depressus</i>	Sentinel Crab
<i>Macrophthalmus pacificus</i>	
<i>Macrophthalmus sp.</i>	
<i>Heloeciis cordiformis</i>	Semaphore Crab
<i>Scopimera inflata</i>	Sand Bubbler
<i>Uca bellator</i>	Fiddler Crabs
<i>Uca coarctata</i>	
<i>Uca dussumieri</i>	
<i>Uca lactea</i>	
<i>Uca seismella</i>	
Family: Porcellanidae	Porcelain Crabs
<i>Petrolisthes sp.</i>	
Family: Portunidae	Mud Crab
<i>Scylla serrata</i>	

Family: Thalassinidea <i>Thalassina anomala</i>	Mangrove Lobster
	Dwyer (1980)
Class: Gastropoda	
Family: Amphibolidae <i>Salinator fragilis</i>	Air Breathers
Family: Cerithiidae <i>Cacozeliana lacertina</i> <i>Clypeomorus dorsuosus</i>	Creepers
Family: Ellobiidae <i>Cassidula angulifera</i> <i>Cassidula rugata</i> <i>Ellobium aurisjudae</i> <i>Pythia scarabeus</i>	Air-breathing Ear Shells
Family: Littorinidae <i>Littorina scabra</i>	Periwinkles
Family: Muricidae <i>Pterynotus permeatus</i>	Murex Shells
Family: Nassariidae <i>Nassarius sp.</i> <i>Zeuxis dorsalis</i>	Dog Whelks
Family: Neritidae <i>Nerita lineata</i>	Nerites
Family: Onchidiidae <i>Onchidium damelii.</i>	Air-breathing Sea Slugs
Family: Potamididae <i>Telescopium telescopium</i> <i>Terebralia pelustris</i> <i>Terebralia sulcata</i> <i>Cerithidia anticapata</i>	Mudwhelks
Family: Scalidae <i>Clathrus minora</i>	Wentle-traps
Family: Trochidae <i>Umbonium sp.</i>	Top Shells
Family: Turbinidae <i>Turbo pentholatus</i>	Turban Shells
	Dwyer (1980)
Class: Bivalvia	
Family: Corbulidae <i>Corbula sp.</i>	Basket Shells
Family: Hiatellidae <i>Hiatella australis</i>	Rock Borers
Family: Laternulidae <i>Laternula creccina</i> <i>Laternula gracilis</i>	Lantern Shells
Family: Limopsidae <i>Austrosarepta sordida</i>	False Dog Cockles

Family: Mactridae	Trough Clams
<i>Notospisula trigonella</i>	
<i>Spisula trigonella</i>	
Family: Mesodesmatidae	Wedge Shells
<i>Atactodea striata</i>	
Family: Mytilidae	Mussels
<i>Modiolus sp.</i>	
Family: Tellinidae	Tellins
<i>Tellina tenulata</i>	
<i>Tellina sp.</i>	
Family: Trapeziidae	
<i>Fluviolanatus amaris</i>	
Family: Ostreidae	Oysters
<i>Saccostrea sp.</i>	
Family: Veneridae	Venus Shells
<i>Eumarcia fumigata</i>	
<i>Gafrarium tumidum</i>	
<i>Periglypta resticulata</i>	
	Dwyer (1980)

Appendix 3.2: Vertebrates of Rapid Creek Mangroves and Estuary

Class: Pisces	Fish
Family: Acanthuridae	
<i>Acacthurus grammaoptilus</i>	Surgeon Fish
Family: Apogonidae	
<i>Apogon angustata</i>	Cardinal Fish
<i>Apogon cooki</i>	
<i>Apogon opercularis</i>	
<i>Apogon rupellii</i>	Gobbleguts
<i>Fowleria aurita</i>	
Family: Atherinidae	
<i>Allanetta mugiloides</i>	Hardyhead
<i>Paraplotosus albilabrus</i>	Common Catfish
Family: Batrachoididae	
<i>Halophryne diemensis</i>	Toadfish
Family: Blenniidae	
<i>Omobranchus germaini</i>	Blenni
<i>Omobranchus punctatus</i>	Rocky-Reef Blenni
<i>Omobranchus rotundiceps</i>	
<i>Salarias spaldingi</i>	Blenni
Family: Centropomidae	
<i>Ambassis sp.</i>	Glass Perch
Family: Chaetodontidae	
<i>Chelmon marginalis</i>	Coral Fish
<i>Parachaetodon ocellata</i>	Butterfly Fish
Family: Eleotridae	
<i>Bostrycus sp.</i>	Gudgeon

Class: Pisces (cont.)

Family: Ephippidae

Platax batavianus

Humphead Batfish

Family: Gerreidae

Gerres sp.

Silverbidy

Family: Gobiidae

Acentrogobius viridipunctatus

Goby

Amblygobius bynoensis

Bynoe's Goby

Bathygobius fuscus

Goby

Cryptocentrus insignitus

Goby

Cryptocentrus sp.

Drombus triangularis

Eviota queenslandica

Favonigobius melanobranchus

Gnatholepsis sp.

Gobiopsis sp.

Istigobius ornatus

Mugilogobius sp.

Palutris sp.

Priolepsis nuchifasciatus

Valenciennesa muralis

Yongeichthys criniger

Family: Labridae

Choerodon cyanodus

Tusk Fish

Halichoeres dussumieri

Wrasse

Family: Lutyanidae

Lutyanus monostigmus

Snapper

Family: Mugilidae

Valamugil buchanani

Blue-Tail Mullet

Family: Nemipteridae

Scaevius millii

Thread-Fin Bream

Family: Oxudercidae

Boleophthalmus birdsongi

Mud Skipper

Periophthalmus argentilineatus

Silver Mud Skipper

Periophthalmus novaeguineensis

Orange-Spot Mud Skipper

Family: Platycephalidae

Platycephalus indicus

Flat Head

Family: Plotosidae

Euristhmus sp.

Cat Fish

Family: Pomacentridae

Abudefduf bengalensis

Bengal Sargeant-Major

Amphiprion rubrocinctus

Red Anemone Fish

Dischistodus fasciatus

Damsel Fish

Pomacentrus littoralis

Damsel Fish

Family: Pseudochromidae

Congrogadus subducens

Eel Blenny

Family: Syngnathidae

Choeroichthys brachysoma

Pipe Fish

Class: Pisces (cont.)

Family: Scorpaenidae

Scorpaena sp.

Scorpion Fish

Sebastapistes sp.

Scorpion Fish

Family: Serranidae

Diploprion fasciatus

Soap Fish

Epinephelus corallicola

Coral Cod

Epinephelus quoyanus

Grouper

Epinephelus suillus

Family: Sillaginidae

Sillago sp.

Whiting

Family: Soleidae

Phyllicthys sclerolepsis

Tough Sole

Family: Synodontidae

Synodus saganeus

Grinner

Family: Teraponidae

Amniataba caudovittata

Flag-Tail Grunter

Terapon jarbua

Target Fish

Class: Reptilia

Family: Cheloniidae

Chelodina mydas

Green turtle

Chelodina depressa

Flat-back turtle

Family: Crocodylidae

Crocodylus porosus

Salt water crocodile

Family: Hydrophiidae

Parahydrophis mertoni

Mertons sea snake

CCNT (1991)

Class: Mammalia

Family: Dugongidae

Dugong dugon

Dugong

CCNT (1991)

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