# BARROW ISLAND - TRIP 2 APRIL 1991

#### SUMMARY OF GRID MAMMAL TRAPPING

## Golden Bandicoot Isoodon auratus

### a) John Wayne Country

60 individuals trapped - 30 males : 20 adult, 10 juvenile (>150g). 30 females : 22 adult, 8 juvenile.

4/60 also trapped in April 1990 and November 1990. 26/60 trapped in November 1990. 30/60 were new captures (includes the 18 juvenile bandicoots).

This suggests that there is a relatively high turnover (50% a year) of individuals in the bandicoot population. A significant proportion (60%) of the new bandicoots in the population were juveniles from the 1990/91 summer breeding season. Only one female had a pouch young and several others had teats that had been recently used prior to April indicating a highly seasonal breeding period.

The average trap success rate (210 Elliott traps per night) was 12.2%. No bandicoots were caught in pit traps.

The mean adult male body weight was 386g; mean adult female bodyweight 321g. The adult bandicoots were in better condition than adults in November 1990. This is reflected in a 38% increase in adult body weight and an increase in the condition index (cuberoot bodyweight/hind foot) from 1.52 to 1.64.

Eight bandicoots were fitted with radio-collars, injected with either 3H/22Na/18O or 3H/22Na and released. These animals were radiotracked for 5-6 days and then recaptured. Movements of these animals appeared to be similar to that found in November 1990. Again, *Triodia angusta* clumps were used exclusively as refuge sites.

b) West Coast Highway.

Seven bandicoots were trapped (50 trapnights). All were adult with a mean body weight of 317g. All were fitted with radio-collars, injected with 3H/22Na and released. The bandicoots were radiotracked for 5-6 days and then recaptured. Triodia angusta clumps in the swales were used as day time refuges while the bandicoots foraged among the T.wiseana at night.

# Western Chestnut Mouse Pseudomys nanus

Eighteen mice were trapped on the grid at JWC: 10 adult males and 8 adult females.

10/18 had been trapped in November 1990.

1/18 had been trapped in April 1990.

The mean body weight was 42.7g, and there was no evidence of breeding at this time.

Sixteen mice were injected with radio-isotopes: 7 with 3H/22Na/180 and 9 with 3H/22Na. Twelve mice were recaptured.

#### Common Rock-rat Zyzomys argurus

Four rock rats were trapped: 2 of these from the cliffs and 2 from the grid itself.

All were adult males, mean body weight was 47.2g. None had been previously trapped in 1990.

All were injected with radio-isotopes: 2 with 3H/22Na/180 and 2 with 3H/22Na. Two animals were recaptured.

## Fat-tailed Antechinus Pseudantechinus macdonnellensis

One adult male (27g) trapped. This animal was previously trapped in November 1990. Injected with 3H/22Na/180, released and subsequently recaptured.

#### Common Planigale Planigale maculata

One juvenile male (2.5g) trapped in a pit trap. Injected with 3H/22Na/180, released but not recaptured.