

Spiders of the Falkland Islands

2010 Report

**Spiders, Harvestmen and Pseudoscorpions found in February and March 2010,
with preliminary conclusions**



Steatoda bipunctata

An introduced European species found in the Falkland Islands for the first time in March 2010

Alastair and Liz Lavery, December 2010

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Spider of the Falkland Islands; 2010 Report

Introduction

This report covers fieldwork carried out on spiders and other arachnids in February and March 2010. The work was supported by Falklands Conservation, The Shackleton Fund and the RSPB.

The study has two aims. It was planned firstly to confirm the results of a study started in 2004, which set a base-line understanding of the spiders of the Falkland Islands. This initial work increased understanding of the distribution of spiders on the islands, expanded the number of recorded species from 18 to 44 and led to the discovery of 12 new, provisional species. A paper describing 4 of the new species is in preparation. The 2010 study aimed to establish the validity of the results of the 2004 work against new material from different sites and to provide specimens for DNA analysis from all the species found in 2004.

The study also extended the 2004 work in 5 areas.

- To establish the current range of the invasive alien species *Tenuiphantes tenuis*.
- To survey spiders in buildings and gardens.
- To collect detailed information on the spiders of at least two additional islands.
- To investigate the unusually rich spider community in the Murrell Valley.
- To expand understanding of the spider community in Tussac, especially on East Falkland.

There have been major improvements in our understanding of the spiders of South America since 2004, especially the work of Miller (2007) on Linyphiidae, Werenkraut and Ramirez (2009) on Anyphaenidae and Grismado and Platnick (2008) on *Platnickia*. These have led to several changes in nomenclature from previous reports on Falkland Island spiders.

A number of species in this report are new and as yet undescribed in the literature. They should not be quoted as species without a warning that they are not officially established. It is hoped to publish accounts of the new species in family Linyphiidae in 2011 and of the rest soon after. The species are -

Osornolobus otariorum
Selkirkiella (ventrosus) rubra
Styposis adami
Theridion reticulatum
Notiomaso christina
Notiomaso shackletoni
Linga orqueta
Dubiaranea hadassa
Dubiaranea "wedell"
Cybaeolus nspA
Rubrius heleni
Coptoprepes cf *ecotono*
Platnickia "dark", "GC2002", "GC2004" complex.

The results for each site follow a common pattern, giving the location, the main characteristics of the site and the sampling method used. The tables show the number of adult male and female specimens captures, the Total column includes males, females and immature specimens.

We would like to thank the Shackleton Scholarship Fund, The RSPB and Falklands Conservation for support and help. Many people helped on the islands, but Craig Dockrell, Martin and Jane Beaton, Arthur Nutter, Liev and Jeremy Poncet, Zhanna Shcherbich, Nick Rendell, Mairi McLeod, Ali Liddle, Rebecca Upson, Al Baylis, Shona Strange, Brian Summers and Richard Lewis must be thanked specially.

Summary

A. Introduced Alien Species

Houses and gardens

Collections made in houses and gardens in Stanley confirmed that there is a large introduced alien species element in the spiders found in these habitats. Sixteen species have been found in houses and other buildings in Stanley, including 7 of the 9 known introduced species. No native species have been found regularly in houses, with the exception of *Rubrius heleni* in the occasionally occupied farmhouse on Keppel Island. Other occurrences in houses are apparently accidental.

13 species have been found in gardens in Stanley. This group includes 3 introduced species, *Tenuiphantes tenuis*, *Lepthyphantes leprosus* and *Diplocephalus cristatus*. Only *T. tenuis* was common, but both *L. leprosus* and *D. cristatus* have been found over a number of years, in garden-like situations and in a number of places, indicating that they are well established. Spiders of the 3 native species of *Laminacauda*, *L. fuegiana*, *plagiata* and *diffusa*, are common in gardens and are found in natural short grassland communities. *Rubrius heleni* is associated with tall shrubs and is often abundant on *Hebe elliptica* in both garden and natural situations.

Tenuiphantes tenuis

Fieldwork was undertaken to establish the spread of *Tenuiphantes tenuis*, a potentially invasive European species. It was found in a wide range of natural communities up to 15 km from the centre of Stanley. It is likely that the species will continue to spread, though the high ground to the west of Stanley is currently inhibiting this.

Steatoda bipunctata, *Araneus diadematus* and *Pholcus phalangioides*.

Two new introduced alien species were found in 2010, both represented by single specimens. It is likely that *Steatoda bipunctata* is established in Stanley. The status of *Pholcus phalangioides* is problematic. It was found in a newly arrived pallet and may not be established on the islands. The specimen was a sub-adult male and so the identification cannot be confirmed; the circumstances of its capture indicates that it is likely to be of UK origin and if so it is the UK species *Pholcus phalangioides*.

Araneus diadematus is a common UK species with a single record from the islands in 2009, having been found in a newly-arrived vehicle. It was not found in any subsequent sampling. Like *Pholcus*, may have been captured on the point of entry.

B. Taxonomy

The provisional identifications made following the fieldwork of 2004 and subsequent sampling by others has, in the main, been confirmed by the collection of more specimens in 2010. Three topics needing further attention have emerged.

Platnickia

A major review of *Platnickia* by Grismado and Platnick (2008) has resolved some of the confusion about the status of this group. Two species are now known to be present in the Falkland Islands, *Platnickia wedelin* and *P. bergi*. Both were described by Schiapelli and Gerschman (1974) as *P. bergi*. This leaves unresolved the group of *Platnickia* specimens provisionally classified as *P. "dark"* (male specimens) and *P. "GC2002"* and *"GC2004"* (female specimens). Very few *Platnickia* were collected in 2010 and no progress has been made in resolving the identity of the species present.

Dubiaranea

There is one established and one provisional species of *Dubiaranea*. *Dubiaranea spinosa* was described by Usher (1983) as *Falklandoglenes spinosa*, from Beauchene Island. It has subsequently been found on Steeple Jason Island and West Point Island. *Dubiaranea hadassa* is a provisional species, found in 2004 only on East Falkland and West Point Island.

The 2010 collections found *Dubiaranea hadassa* on Keppel Island. On Weddell Island, *Dubiaranea spinosa* seems to occur with another species of *Dubiaranea*, provisionally named *Dubiaranea "weddeli"*. *D. "weddeli"*

is very similar to *D. spinosa* and will necessitate a review of the whole genus on the Falklands, including inspection of the type specimens of *D. spinosa* in the Natural History Museum, London.

Phalangiidae

There are two species of harvestman recorded from the Falkland Islands, *Haversia defensa* and *Hoggellula vallentini*. Both genera are endemic.

The identification of harvestmen proved difficult in 2004. Further inspection of new material collected in 2010 has confirmed that the published descriptions in the literature, including in the standard text for the region Ringuelet (1959), are ambiguous. A literature search has revealed the current descriptions are based on the species descriptions made in 1913 for *Hoggellula* (Hogg, 1913) and 1876 for *Haversia* (Butler (1876)). While the species have been renamed and moved to their present genera since those dates, it now seems likely that no new material has been used nor the type specimens inspected in any of these revisions. The characteristics used in Ringuelet (1959) to separate the genera, mainly the pattern of spines on the abdomen and ocularium, are present in all the male specimens collected in 2010. This makes accurate identification impossible and suggests that the group is in need of taxonomic revision. At present it is not possible to be sure how many species of harvestmen are present on the islands. Resolving this issue will require considerable work, including re-description of the type specimens, both believed to be in the Natural History Museum, London.

C. Distribution

***Alopecosa nigricans*.**

The known distribution of the wolf spider *Alopecosa nigricans* was greatly extended in 2010. Previously known only from New, West Point and Steeple Jason Islands, it was found on Weddell and Keppel Islands and specimens were sent in from Bold Cove Farm and Chartres on West Falkland and from Saunders Island. Additional anecdotal evidence possibly extends its range to Fox Bay. The extension of range to West Falkland is interesting. Collections were made in Port Howard in 2004 and a collection in the Natural History Museum, London from Fox Bay made in 1952. Neither contains *Alopecosa nigricans*, indicating that it is possible the species is extending its range, or is restricted to the southern part of West Falkland. It has not been recorded from East Falkland.

Notiomaso striatus

Notiomaso striatus is a spider found only in Tussac and is endemic to the Falkland Islands. It was first described from Beauchene Island (Usher, 1983) and in 2004 was found on Sealion Island. It was reported from East Falkland in Fuller, 1995 and immatures, likely to be of this species, were collected by the BSES expedition of 2007, on Emily Island.

In 2010 *N. striatus* was found to be common in Tussac on East Falkland at Cape Pembroke and in small numbers in Tussac at Hadassa Bay. The Hadassa Bay site is close to sites surveyed in 2004, when no *N. striatus* was found. The species was not found in Tussac sampling on Weddell or Keppel Islands, indicating that it may be restricted globally to islands on the east of the archipelago.

Emmenomma beauchenicum

Emmenomma beauchenicum is known only from Beauchene Island and only from a description of the female (Usher, 1983). In 2010 immature *Emmenomma* specimens were found on Keppel Island with a dark colouration similar to the description of *E. beauchenicum*. It is not possible to confirm the identity from immature specimens, but further collection on Keppel Island would be desirable.

Table 1. Summary of Spider Occurrence in the Falkland Islands

Family	species	origin	Pre-2004	2004	2010
Pholcidae	<i>(Pholcus phalangioides)</i>	alien			pres
Orsolobidae	<i>Falklandia rumbolli</i>	endemic	pres	pres	pres
	<i>Osornolobus otariorum</i>	endemic		pres	pres
Mecysmauceniidae	<i>Mecysmauchenius segmentatus</i>	native	pres	pres	pres
Theridiidae	<i>Selkirkiella ventrosus</i>	native	pres	pres	pres
	<i>Selkirkiella (ventrosus?) rubra</i>	endemic		pres	pres
	<i>Styposis adami</i>	endemic		pres	pres
	<i>Theridion reticulatum</i>	endemic		pres	pres
	<i>Stactoda grossa</i>	alien			pres
	<i>Steatoda bipunctata</i>	alien			pres
Linyphiidae	<i>Neomaso pollicatus</i>	native	pres	pres	pres
	<i>Laminacauda fuegiana</i>	native	pres	pres	pres
	<i>Laminacauda diffusa</i>	native		pres	pres
	<i>Laminacauda plagiata</i>	native		pres	pres
	<i>Notiomaso barbatus</i>	native		pres	pres
	<i>Notiomaso christina</i>	endemic		pres	pres
	<i>Notiomaso shackletoni</i>	endemic		pres	pres
	<i>Notiomaso australis</i>	native		pres	pres
	<i>Notiomaso flavus</i>	native		pres	pres
	<i>Notiomaso striatus</i>	endemic	pres	pres	pres
	<i>Linga orqueta</i>	endemic		pres	pres
	<i>Stictonanus paucus</i>	native		pres	pres
	<i>Dubiaranea spinosa</i>	endemic	pres	pres	pres
	<i>Dubiaranea "weddel"</i>	endemic?			poss
	<i>Dubiaranea hadassa</i>	endemic		pres	pres
	<i>Diplocephalus cristatus</i>	alien	pres	pres	pres
	<i>Lepthyphantes leprosus</i>	alien		pres	pres
	<i>Tenuiphantes tenuis</i>	alien		pres	pres
Tetragnathidae	<i>Tetragnatha insulata</i>	endemic	pres	pres	
Areneidae	<i>Molinaranea magellanica</i>	native	pres	pres	pres
	<i>Araneus diadematus</i>	alien			pres
Lycosidae	<i>Alopecosa nigricans</i>	native	pres	pres	pres
Agelenidae	<i>Tegenaria saeva</i>	alien		pres	pres
	<i>Tegenaria domestica</i>	alien			pres
	<i>Tegenaria gigantea</i>	alien		pres	pres
Hahnidae	<i>Hahnia michaelseni</i>	native	pres	pres	pres
	<i>Cybaeolus nspA</i>	endemic		pres	pres
Amaurobidae	<i>Anisacate fuegianum</i>	native	pres	pres	pres
	<i>Anisacate fuegianum bransfieldi</i>	endemic	pres		
	<i>Emmenomma oculatum</i>	native	pres	pres	pres
	<i>Emmenomma beauchenicum</i>	endemic	pres		poss
	<i>Rubrius heleni</i>	endemic		pres	pres
Anyphaenidae	<i>Sanogasta backhauseni</i>	native	pres	pres	pres
	<i>Negayan paduana</i>	native	pres	pres	pres
	<i>Negayan excepta</i>	native	misident	pres	pres
	<i>Coptoprepes cf ecotono</i>	endemic		pres	pres
Zodariidae	<i>Platnickia bergi</i>	native	pres	pres	pres
	<i>Platnickia wedelin</i>	native	misident	pres	pres
	<i>Platnickia „dark“</i>	endemic		pres	
	<i>Platnickia GC 2002, 2004</i>	endemic?		Poss	poss
Philodromidae	<i>Petrichus niveus</i>	native	pres	pres	pres
Confirmed taxa	49		20	42	45
Possible taxa	(51)		(22)	(43)	(48)

pres – species known to be present
 misident – species present but misidentified
 poss – possible new species, requires further work or specimens to confirm

Other than the *Platnickia* complex of provisional species, only two species were not found in 2010. *Anisacate fuegianum bransfieldi* is a sub-species confined to Beauchene Island. *Tetragnatha insulata* has been found only on West Falkland, the west side of East Falkland and West Point Island.

Table 2. Summary of known Arachnid distribution by island.

	Large collections					Small collections							Large collections	
	Keppel	Weddell	Sealion	Beauchene		New	Bleaker	Steeple Jason	Emily	George	West Point		East Falkland	West Falkland
Orsolobidae														
Falklandia rumbolli	present	present	present	present			present	present	present	present	present		present	present
Osornolobus „otariorum“	present	present	present					present		present			present	present
Mecysmauceniidae														
Mecysmauchenius segmentatus	present	present	present							present			present	present
Theridiidae														
Selkirkiella ventrosus	present	present						present					present	present
Selkirkiella „rubra“	present	present	present								present		present	present
Styposis „adami“		present	present										present	present
Theridion „reticulatum“		present											present	present
Staatoda grossa													present	
Staatoda bimaculatum													present	
Linyphiidae														
Neomaso pollicatus													present	present
Laminacauda fuegiana	present						present	present					present	
Laminacauda diffusa			present					present					present	present
Laminacauda plagiata	present	present	present			present	present						present	present
Notiomaso barbatus	present	present						present	present	present			present	
Notiomaso „christina“	present	present											present	
Notiomaso „shackletoni“	present	present	present				present						present	present
Notiomaso australis			present										present	present
Notiomaso flavus	present	present	present					present					present	present
Notiomaso striatus			present	present					present				present	
„Linga orqueta“									present				present	
Stictonanus paucus													present	
Dubiaranea spinosa		present		present				present			present			
Dubiaranea „hadassa“	present										present		present	
Dubiaranea „weddeli“		present												
Diplocephalus cristatus	present										present		present	present
Lepthyphantes leprosus													present	present
Tenuiphantes tenuis													present	
Tetragnathidae														
Tetragnatha insulata											present		present	present
Areneidae														
Molinaranea magellanica	present	present				present					present		present	present
Araneus diadematus													present	

	Keppel	Weddell	Sealion	Beauchene		New	Bleaker	Steeple Jason	Emily	George	West Point		East Falkland	West Falkland
Lycosidae														
<i>Alopecosa nigricans</i>	present	present				present		present			present			present
Agelenidae														
<i>Tegenaria saeva</i>													present	
<i>Tegenaria domestica</i>		present											present	
<i>Tegenaria gigantea</i>													present	
Hahnidae														
<i>Hahnia michaelsoni</i>	present	present	present										present	present
<i>Cybaeolus nspA</i>	present										present		present	
Amaurobidae														
<i>Anisacate fuegianum</i>			present						present		present		present	present
<i>Anisacate f. bransfieldi</i>				present										
<i>Emmenomma oculatum</i>	present	present	present	present			present		present	present			present	present
<i>Emmenomma beauchenicum</i>	present?			present										
<i>Rubrius „heleni”</i>	present	present	present						present				present	present
Anyphaenidae														
<i>Sanogasta backhauseni</i>	present	present											present	
<i>Negayan paduana</i>	present	present	present	present			present	present	present	present			present	present
<i>Negayan excepta</i>	present	present	present			present	present		present	present	present		present	present
<i>Coptoprepes cf ecotono</i>		present	present							present			present	present
Zodariidae														
<i>Platnickia bergi</i>													present	
<i>Platnickia wedelin</i>													present	
<i>Platnickia „dark”</i>													present	
Philodromidae														
<i>Petrichus niveus</i>	present	present	present				present	present		present			present	present
<i>Hoggellula vallentini</i>	present	present	present								present		present	
<i>Haversia defensa</i>	present	present	present										present	
<i>Beierobisium oppisum</i>	present	present	present										present	present
Total spider species	24	25	19	7		4	8	11	9	9	12		44	26

Saunders Island;
Pebble Island;
Bense Island;
Carcass Island;
Kidney Island;

Alopecosa nigricans.
Laminacauda diffusum, *Tetragnatha insulata*, *Petrichus niveus*.
Rubrius heleni.
Falklandia rumbolli, *Notiomaso shackletoni*, *Molinaranea magellanica*, *Negayan sp.*.
Falklandia rumbolli, *Mecysmauchenius segmentatus*, *Anisacate fuegianum*.

1. *Tenuiphantes tenuis*.

Tenuiphantes tenuis is a common European spider, first recorded in the Falkland Islands in 1987. It has been recorded from gardens in Stanley and from Gypsy Cove and Christina Bay, Cape Pembroke in natural communities. In 2005 it was found in a very rich natural community in the Murrell Valley, some distance from Stanley, in samples taken by Andy Douse.

Six species of introduced European spider have been found on the Falkland Islands, 3 associated with buildings and two which have remained rare and associated with gardens (Lavery, 2007).

Tenuiphantes tenuis is the only species which has spread to natural communities and shown signs of becoming invasive.

The aim of this work was to establish the status of *T. tenuis* in Stanley and in suitable short-grass habitats on transects to the east and north of the town. This was carried out by intensive direct searching and sampling on a transect along the road from Stanley to Mount Pleasant.

TT 1

Tenuiphantes tenuis transect; Bluff Cove

51.73568 058.14611

Altitude 36m **Aspect** East **Vegetation ht** 40 cms **Vegetation cover** 70%

Wet acid grassland – *Cortaderia pilosa*, *Gunnera magellanica*, *Empetrum rubrum*, *Blechnum penna-marina*, *Baccharis magellanica*, *Luzuriaga marginata*, *Gaultheria pumila*.

20.52 km from centre of Stanley.



si 19/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			4
<i>Selkirkiella ventrosus rubra</i>	1		2
<i>Styposis adami</i>		1	1
<i>Cybaeolus nsp A</i>	1		1
<i>Emmenomma oculatum</i>			1
<i>Negayan paduana</i>		1	1

TT 2

Tenuiphantes tenuis transect; Riverside

51.74650 058.30252

Altitude 30m **Aspect** North **Vegetation ht** 25 cms **Vegetation cover** 100%

Wet acid grassland – Cortaderia pilosa, Gunnera magellanica, Leptinella scariosa, Blechnum penna-marina, Baccharis magellanica, Hierochloa redolens, Cerastium fontanum
31.32 km from centre of Stanley.



si 19/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
Osornolobus otariorum	1		2
Selkirkiella ventrosus	1		2
Selkirkiella ventrosus rubra		1	2
Notiomaso flavus		1	1
Platnickia GC2002		1	1
Hoggellula vallentini			1
Haversia defensa			1

TT 3

Tenuiphantes tenuis transect; Mount Harriet

51.71410 058.00389

Altitude 102m **Aspect** East **Vegetation ht** 40 cms **Vegetation cover** 95%

Tall fern bed – Blechnum magellanicum, Baccharis magellanica, Hierochloa redolens, Agrostis canina, Empetrum rubrum, Luzuriaga marginata, Gaultheria pumila, Cerastium fontanum, Festuca contracta, Olsynium filifolium, Dechampsia flexuosa, Gunnera magellanica.
10.42 km from centre of Stanley.



si 21/02/10 Searching 60 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra	1		3
Tenuiphantes tenuis			1
Cybaeolus nsp A	4	5	17
Emmenomma oculatum		1	2

TT 4

Tenuiphantes tenuis transect; Mount Harriet

51.71252 058.00495

Altitude 129m **Aspect** South **Vegetation ht** 30 cms **Vegetation cover** 100%

Acid grassland/Tall fern bed – Blechnum magellanicum, Cortaderia pilosa, Empetrum rubrum, Olsynium filifolium, Festuca sp, Myrteola nummularia, Baccharis magellanica, Gaultheria pumila, Azorella lycopodioides, Abrotanella emarginata, Trisetum phleoides, Oreobolus obtusangulus.
10.45 km from centre of Stanley.



si 21/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
Osornolobus otariorum			1

TT 5

Tenuiphantes tenuis transect; Mount William

51.70646 057.92972

Altitude 43m **Aspect** South **Vegetation ht** 30-50 cms **Vegetation cover** 100%

Acid grassland – Holcus lanatus, Agrostis sp, Hierochloa redolens, Gunnera magellanica, Hypochoeris radicata, Blechnum magellanicum, Galium saxatile, Juncus effusus.
5.27 km from centre of Stanley.



si 25/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
Laminacauda plagiata			3
Tenuiphantes tenuis			1
Negayan excepta	1		1
Emmenomma oculatum			3
Phalangiidae immature			1

TT 6

Tenuiphantes tenuis transect; Pony's Pass

51.71407 057.94399

Altitude 48m **Aspect** East **Vegetation ht** 30-50 cms**Vegetation cover** 100%Acid grassland – *Agrostis* sp, *Hierochloe redolens*, *Hypochoeris radicata*, *Blechnum magellanicum*, *Gaultheria pumila*.

6.47 km from centre of Stanley.



si 25/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra			1
Cybaeolus nspA	1	1	3
Emmenomma oculatum		1	3

TT 7

Tenuiphantes tenuis transect; Pony's Pass

51.71511 057.96199

Altitude 36m **Aspect** East **Vegetation ht** 40-50 cms**Vegetation cover** 100%Acid grassland – *Cortaderia pilosa*, *Agrostis* sp, *Hierochloe redolens*, *Blechnum magellanicum*, *Blechnum penna-marina*, *Gunnera magellanica*, *Baccharis magellanica*.

7.67 km from centre of Stanley.



si 25/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus			3
Laminacauda plagiata		1	1
Emmenomma oculatum			1

TT8

Tenuiphantes tenuis transect; Garden, Tenacres

51.69778 057.87384

Altitude 49m **Aspect** North-east **Vegetation ht** 5 - 30 cms **Vegetation cover** 100%

Garden – New garden with short grass, Tree-lupin, Cupressus macrocarpa

Note – also STG4. 1.34 km from centre of Stanley.



si 01/03/10 Searching in litter 60 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra		1	2
Laminacauda plagiata	2	7	10
Linyphiidae immature			2

TT9

Tenuiphantes tenuis transect; Wall Mountain

51.71238 058.03905

Altitude 80m **Aspect** East **Vegetation ht** 30-60 cms **Vegetation cover** 100%Blechnum magellanicum, Empetrum rubrum, Gautheria pumila, Cortaderia pilosa, Hierochloa redolens, Deschampsia flexuosa, Gunnera magellanica, Agrostis meyenii, Agrostis magellanica.
12.79 km from centre of Stanley.

si 02/03/10 Searching 60 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra		1	3
Styopsis adami		1	1
Tenuiphantes tenuis		1	1
Hahnia michaelsoni	3	4	7
Linyphiidae immature			1
Phalangidae immature			1

TT10

Tenuiphantes tenuis transect; Wall Mountain 51.71053 058.049059
Altitude 120m **Aspect** East **Vegetation ht** 30-60 cms **Vegetation cover** 100%
 Poa flabellata, Blechnum magellanicum, Empetrum rubrum, Trisetum phleoides, Phlebolobium
 maclovianum, Rubus geoides.
 12.85 km from centre of Stanley.



si 02/03/10 Searching 60 minutes

Species	Adult male	Adult female	Total
Osornolobus otariorum			3
Selkirkiella ventrosus rubra		2	8
Laminacauda plagiata		1	1
Notiomaso australis		1	1
Hahnia michaelsoni	4	7	13
Emmenomma oculatum			1
Linyphiidae immature			2

TT11

Tenuiphantes tenuis transect; Wall Mountain/West Road 51.71564 058.07053
Altitude 101m **Aspect** South **Vegetation ht** 30-40 cms **Vegetation cover** 100%
 Acid grassland – Cortaderia pilosa, Hierochloa redolens, Baccharis magellanica, Myrteola
 nummularia, Gunnera magellanica, Marsippospermum grandiflorum, Chilotrichum diffusum,
 Agrostis sp, Luzuriaga marginata.
 14.97 km from centre of Stanley.



si 04/03/10 Searching 60 minutes

Species	Adult male	Adult female	Total
Notiomaso flavus		1	1
Tenuiphantes tenuis			1

TT12

Tenuiphantes tenuis transect; Wall Mountain/West Road 51.71483 058.07034
Altitude 103m **Aspect** South **Vegetation ht** 40-50 cms **Vegetation cover** 100%
 Fern bed –Blechnum magellanicum
 14.94 km from centre of Stanley.



si 04/03/10 Searching 60 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra			3
Phalangiidae immature			1

Table 3. Non-transect sites at which *Tenuiphantes tenuis* was found.

Code	Site	Date	Adult male	Adult female	Total
	In Stanley				
STG1	45 Ross Road East, Stanley	14/02/10	1		1
STG1	45 Ross Road East, Stanley	21/02/10			1
SH4	45 Ross Road East, Stanley	06/03/10			1
STG2	9, Ross Road East, Stanley	27/01/10		2	2
SH1	Government House, Stanley	25/02/10			2
SH2	13 Biggs Road, Stanley	25/02/10	1	1	4
	Outside Stanley				
MVT2	Murrell Valley – wet acidic grass	10/03/10		1	1
MVT3	Murrell Valley – dry grass	05/03/10		2	2
HBN1	Hadassa Bay - tussac	16/01/10		2	2
HBN2	Hadassa Bay - tussac	10/03/10		1	1
HBN4	Hadassa Bay - tussac	02/03/10		1	1
HBN5	Hadassa Bay - tussac	02/03/10		1	3
CP2	Cape Pembroke - tussac	17/03/10		1	1
CP3	Cape Pembroke – marram grass	17/03/10	3		3

Conclusions.

Eleven sampling sites were established from 2km to 22 km from the known centre of this spider's distribution in Stanley. Preliminary results indicate that the species has spread and maintained its populations in natural communities up to 15 km from Stanley but has not yet established further than this.

Sampling in and around Stanley confirm that *Tenuiphantes tenuis* is well established in gardens and buildings within town. It was also found in a wide range of sites outside Stanley. These included Tussac sites at Cape Pembroke (9.3 km from Stanley) and Hadassa Bay (3.2 km from Stanley) and wet grassland in the Murrell Valley (6.0 km from Stanley). It has not previously been recorded from this wide range of habitats.

The species is now invasive, occupying a wide range of natural plant communities within 15km of Stanley. Its spread is currently inhibited by the high ground surrounding Stanley to the landward, but it is likely that the species will establish beyond this barrier in the near future especially if carried by human agency.

Table 4. *Tenuiphantes tenuis* transect.

Site	TT8	TT5	TT6	TT7	TT3	TT4	TT9	TT10	TT12	TT11	TT1	TT2
Distance from Stanley	1.34	5.27	6.47	7.67	10.42	10.45	12.79	12.85	14.94	14.97	20.52	31.32
Site	Tenacres, Stanley	Mt William	Pony's Pass	Pony's Pass	Harriet	Harriet	Wall Mt	Wall Mt	West Road	West Road	Bluff Cove	Riverside
Date	01/03/10	25/02/10	25/02/10	25/02/10	21/02/10	21/02/10	02/03/10	02/03/10	04/03/10	04/03/10	19/02/10	19/02/10
Vegetation type	Garden	Hierochloe Gunnera	Agrostis Tall fern	Cortaderia Hierochloe	Hierochloe	Cortaderia Tall fern	Tall fern	Empetrum Tall fern	Tall fern	Cortaderia Hierochloe	Cortaderia	Cortaderia Small fern
Altitude	49m	43m	48m	36m	102m	129m	103m	120m	103m	101m	21m	30m
<i>Tenuiphantes tenuis</i>		1			1		1			1		
<i>Osornolobus otariorum</i>						1		3			4	2
<i>Selkirkiella ventrosus</i>				3								1
<i>Selkirkiella vent rubra</i>	2		1		3		3	8	3		2	2
<i>Styposis adami</i>							1				1	
<i>Laminacauda plagiata</i>	10	3		1				1				
<i>Notiomaso australis</i>								1				
<i>Notiomaso flavus</i>										1		1
<i>Emmenomma oculatum</i>		3	3	1	2			1			1	
<i>Cybaeolus nspA</i>			3		17						1	
<i>Hahnia michaelsoni</i>							9	13				
<i>Negayan paduana</i>											1	
<i>Negayan excepta</i>		1										
<i>Negayan immature</i>	2											
<i>Platnickia GC2002</i>												1
<i>Linyphiidae immature</i>							1	2				
<i>Hoggellula vallentini</i>												1
<i>Haversia defensa</i>												1
<i>Phalangiidae immature</i>		1					1		1			

2. Spiders in Buildings and Gardens.

While six spider species from Europe have been found in houses and gardens on the Falkland Islands, there has been no systematic sampling of these habitats. The aim of this work was to determine the spider communities of houses and gardens in Stanley and the Mount Pleasant Complex.

2a GARDENS

STG1

Garden, 45 Ross Road East

51° 41' 40.5" 57° 49' 58.6"

Altitude 12m **Aspect** North **Vegetation ht** 10-30 cms **Vegetation cover** 100%

Garden – *Holcus lanatus*, *Agrostis capillaris*, *Hypochoeris radicata*.

si 14/02/10 Sweeping, searching 30 minutes

Species	Adult male	Adult female	Total
<i>Laminacauda diffusa</i>		1	1
<i>Laminacauda</i> sp - immature			2
<i>Notiomaso</i> sp - immature			3
<i>Diplocephalus cristatus</i>		1	1
<i>Tenuiphantes tenuis</i>	1		1
<i>Linyphiidae</i> immature			1

sii 17/02/10 Sweeping, beating 60 mins

Species	Adult male	Adult female	Total
<i>Laminacauda plagiata</i>			7
<i>Laminacauda</i> sp - immature			2
<i>Linyphiidae</i> immature			1

siii 21/02/10 Searching 30 mins

Species	Adult male	Adult female	Total
<i>Laminacauda diffusa</i>		4	4
<i>Laminacauda plagiata</i>		4	7
<i>Tenuiphantes tenuis</i>			1

STG2

Garden, 9 Ross Road East

51.69302 057.85049

Altitude 3m **Aspect** North-west **Vegetation ht** 20 cms – 2 m **Vegetation cover** 100%
 Garden plot, wide selection of garden plants and cut grass.



si 27/02/10 Hebe, beating 60 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus		2	2
Selkirkiella ventrosus rubra		2	11
Rubrius heleni	8	4	37
Negayan immature			1

sii 27/02/10 Yucca and Palm, beating 20 mins

Species	Adult male	Adult female	Total
Selkirkiella ventrosus			1
Rubrius heleni	1		1

siii 27/02/10 Broom, beating 20 mins

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra		1	1

siv 27/02/10 Prunus, other shrubs, beating 30 mins

Species	Adult male	Adult female	Total
Rubrius heleni			1

sv 27/02/10 Grass, searching 60 mins

Species	Adult male	Adult female	Total
Selkirkiella ventrosus	1	1	9
Laminacauda fuegiana	1		1
Laminacauda plagiata	1	4	5
Notiomaso flavus		1	1
Diplocephalus cristatus		1	1
Lepthyphantes leprosus	1		1
Tenuiphantes tenuis		2	2
Rubrius heleni	1	1	4
Negayan paduana			2
Linyphiidae immature			8

STG3

Garden, Jubilee Villas, Ross Road

51.69259 057.85688

Altitude 6m **Aspect** North **Vegetation ht** 20 cms **Vegetation cover** 100%

Garden – Holcus lanatus, Agrostis sp.

si 01/03/10 Searching 30 minutes

Species	Adult male	Adult female	Total
Diplocephalus latifrons		1	1

STG4

Garden, Tenacres

51.69778 057.87384

Altitude 49m **Aspect** North-east **Vegetation ht** 5 - 30 cms **Vegetation cover** 100%

Garden – New garden with short grass, Tree-lupin, Cupressus macrocarpa

Note – also TT8

si 01/03/10 Searching in litter 60 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra		1	2
Laminacauda plagiata	2	7	10
Linyphiidae immature			2

STG5

Stanley, 3A Hebe Street

51.69358 057.85330

Altitude 9m **Aspect** - **Vegetation ht** - **Vegetation cover** 100%

Garden – short grass and garden plants, Hebe, Pinus, Macrocarpa, other shrubs. No spiders found on any shrubs.

si 01/03/10 Searching grass litter

Species	Adult male	Adult female	Total
Laminacauda fuegiana		1	1
Laminacauda diffusa	3	2	5
Laminacauda plagiata	4	1	5
Diplocephalus latifrons	1		1
Linyphiidae immature			8

Table 5. Garden records 2009 by Gillian Cottar.

Individual records – gardens	Date	Location		
Laminacauda fuegiana	Dec 2009	Stanley, garden, Jeremy Moore Avenue	Gillian Cottar	1 adult female
Laminacauda plagiata	Dec 2009	Stanley, garden, Jeremy Moore Avenue	Gillian Cottar	2 adult females
Lepthyphantes leprosus	Sept 2009	Stanley, conservatory, 1 Ross Road.	Gillian Cottar	1 adult male
Dubiaranea hadassa	Dec 2009	Stanley, Government House garden	Gillian Cottar	1 immature male
Rubrius heleni		Stanley, trees behind Government House	Gillian Cottar	1 adult female

Table 6. Garden Samples 2010

Gardens	STG1 si	STG1 sii	STG1 siii	STG2 si	STG2 sii	STG2 siii	STG2 siv	STG2 sv	STG3 si	STG4 si	STG 5 si	Other Table 5
Selkirkiella ventrosus				11	1			9				
Selkirkiella ventrosus rubra				1		1		4		2		
Laminacauda fuegiana								1			1	1
Laminacauda plagiata		7	4					5		10	5	2
Laminacauda diffusa	1		4								5	
Notiomaso flavus								1				
Diplocephalus cristatus	1							1	1		1	
Lepthyphantes leprosus								1				1
Tenuiphantes tenuis	1		1					2				1
Rubrius heleni				37	1		1	4				
Negayan paduana								2				
Negayan immature				1						2		
Linyphiidae immature	6	3	3					8			8	

2b HOUSES and BUILDINGS

SH1

Stanley, Government House 51.69242 057.87367
Altitude 5m **Aspect** - **Vegetation ht** - **Vegetation cover** -
 Greenhouses and associated buildings at Government House

si 25/02/10 Searching in office 15 minutes

Species	Adult male	Adult female	Total
Tegenaria domestica	1	5	10

sii 25/02/10 Searching in greenhouse 15 minutes

Species	Adult male	Adult female	Total
Tenuiphantes tenuis			2

SH2

Stanley, 13 Biggs Road
Altitude 5m **Aspect** - **Vegetation ht** - **Vegetation cover** -
 Conservatory and greenhouse

si 25/02/10 Searching in conservatory and greenhouse 45 minutes

Species	Adult male	Adult female	Total
Laminacauda plagiata			2
Tenuiphantes tenuis	1	1	4
Rubrius heleni	1		1
Petrichus niveus			1

SH3

Stanley, 3A Hebe Street 51.69358 057.85330
Altitude 9m **Aspect** - **Vegetation ht** - **Vegetation cover** -
 House – cupboard, bathroom and garden shed

si 01/03/10 House, bathroom and cupboard

Species	Adult male	Adult female	Total
Rubrius heleni	1		1
Negayan immature			1

sii 01/03/10 Garden shed

Species	Adult male	Adult female	Total
Steatoda bipunctata		1	1
Lepthyphantes leprosus			1
Negayan immature			1

SH4

Stanley, 45 Ross Road West
Altitude - **Aspect** - **Vegetation ht** - **Vegetation cover** -
 House – bath

si 06/03/10 Bath

Species	Adult male	Adult female	Total
Tenuiphantes tenuis	1		1

KH1

Keppel House
Altitude 5m **Aspect** - **Vegetation ht** - **Vegetation cover** -
 House

si 8/03/10 In bathroom

Species	Adult male	Adult female	Total
Rubrius heleni	6		6

Table 7. Other House Records 2010

Individual records - Houses	Date	Location	collected	per
<i>Steatoda grossa</i>	Feb 2010	House, Stanley	C Davey	Department of Agriculture
<i>Steatoda grossa</i>	Nov 2009	Stanley, cupboard	Lucinda Lowe	Department of Agriculture
<i>Negayan excepta</i>	06/03/10	Port Edgar House in bath	Sarah Croft	Department of Agriculture
<i>Lepthyphantes leprosus</i>	Sept 2009	Stanley, conservatory, 1 Ross Road.	Gillian Cottar	Gillian Cottar
<i>Negayan paduana</i>	06/03/10	Port Edgar House		Falklands Conservation
<i>Tegenaria domestica</i>	19/03/10	Stanley?		Department of Agriculture
<i>Tegenaria domestica</i>	April 2010	Cupboard, Upland Goose Hotel	Lucinda Lowe	Department of Agriculture
<i>Tegenaria domestica</i>	03/09/10	Hebe Street, Stanley	Ali Liddle	Falklands Conservation
<i>Tegenaria domestica</i>	09/11/10	House, Stanley	Mandy Ford	Falklands Conservation
<i>Alopecosa nigricans</i>	April 2010	Kitchen, Bold Cove Farm	Serena Sinclair	Department of Agriculture
<i>Alopecosa nigricans</i>	April 2010	House, Chartres, West Falkland	Grizelda Crockwell	Department of Agriculture
<i>Petrichus niveus</i>	April 2010	House, Stanley	Anna Shepherd	Department of Agriculture
Pholcidae <i>Pholcus phalangioides</i> ?	01/10/10	Stanley; Lifestyles Store in pallet from UK	Mike Morrison	Falklands Conservation
<i>Haversia defensa</i> ?	April 2010	Kitchen, Horseshoe Bay	Peter & Maggie Ross	Department of Agriculture

Table 8. House samples 2010

Houses	SH1 si	SH1 sii	SH2 si	SH3 si	SH3 sii	WL4 si	WL9 shanty	SH4 si	KH1	KL13 KH1
<i>Falklandia rumbolli</i>						1	1			
<i>Selkirkiella ventrosus</i>						1	1		1	
<i>Steatoda bipunctata</i>					1					
<i>Laminacauda plagiata</i>			2							
<i>Lepthyphantes leprosus</i>					1					
<i>Tenuiphantes tenuis</i>		2	4					1		
<i>Diplocephalus cristatus</i>									1	
<i>Tegenaria domestica</i>	10					1				
<i>Rubrius heleni</i>			1	1		1	1		1	6
<i>Emmenomma oculatum</i>							1			
<i>Negayan paduana</i>							2			
<i>Negayan immature</i>				1	1					
<i>Petrichus niveus</i>			1							

Conclusions

Gardens

Gardens in Stanley support a mix of native and introduced species. Native species characteristic of short grass habitats, such as species of *Laminacauda*, are common. *Rubrius heleni*, found on native *Hebe elliptica* is also common in garden shrubberies, along with the two widespread species of *Selkirkiella*. The spider community of gardens is not species rich. Introduced species in gardens include the long established but rare *Diplocephalus cristatus*, also found in buildings. Its occurrence in a building on Keppel Island is a major extension to its known range. *Lepthyphantes leprosus*, previously only known from the garden at Hill Cove, has now been found in both gardens and buildings in Stanley. In northern Europe it is a house spider.

Houses and Gardens

Houses and buildings on the Falkland Islands are very spider-free. No fieldwork was carried out at Mount Pleasant in 2010. Most of the species recorded in houses are introduced, to the extent that the native species found in buildings are probably accidentals. The occurrence of large numbers of *Rubrius heleni*, active only at night, in the seldom occupied farmhouse on Keppel Island is a striking contrast. All 3 introduced species of *Tegenaria* were found in 2010, confirming their establishment. *Tegenaria domestica* was found on Weddell Island, the first time the genus has been found outside Stanley. Two introduced species, *Steatoda bipunctata* and a Pholcid, probably *Pholcus phalangioides*, were found for the first time, bringing the introduced species on the islands to 10.

3. Distribution of spiders on smaller islands.

The spiders of the two main islands in the Falkland Islands group are now comparatively well known. Only two smaller islands, Sea Lion Island (Lavery 2004) and Beauchene Island (Usher, 1983) have been sampled intensively. Small collections by a number of collectors have been analysed from a larger number of islands: New, West Point, Steeple Jason, Carcass, Bleaker, Emily and George Islands. These indicate that the smaller islands have complex patterns of distribution and include species not recorded from the main islands.

The aim of this work is to undertake intensive sampling on two smaller islands – provisionally New and West Point Islands, to assist in understanding the complex distribution of spiders in the archipelago.

It proved impossible to get to New and West point islands because of air travel restrictions. Two other islands were sampled, Keppel and Weddell. These results are not fully analysed, but show that the spider communities on the smaller islands is complex and variable.

3a Keppel Island

KL 1

Keppel Island; Settlement paddocks 51.33303 059.93913

Altitude 5m **Aspect** North **Vegetation ht** 20 cms **Vegetation cover** 100%

Maritime grassland – Grasses, *Baccharis magellanica*, *Ulex europaea*.



si 7/03/10 Searching grass 30 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>		1	5
<i>Laminacauda plagiata</i>	2		2
<i>Negayan paduana</i>			1
<i>Beierobisium oppisium</i>	1		1

sii 7/03/10 Beating *Ulex* 20 minutes

Species	Adult male	Adult female	Total
<i>Selkirkiella ventrosus</i>			8
<i>Selkirkiella ventrosus rubra</i>	1	8	31
<i>Dubiaranea hadassa</i>		3	3

KL 2

Keppel Island; Justice Bay 51.32220 059.93060

Altitude 2m **Aspect** - **Vegetation ht** 30 cms **Vegetation cover** 50%

Dwarf Shrub Heath – *Empetrum rubrum*, *Baccharis magellanica*, *Perezia recurvata*, *Deschampsia antarctica*, *Acaena lucida*.



si 8/03/10 Searching 30 minutes

Species	Adult male	Adult female	Total
<i>Selkirkiella ventrosus rubra</i>	1		10
<i>Notiomaso shackletoni</i>	1		1
<i>Rubrius heleni</i>	2	3	36
<i>Anyphaenidae</i> immature			7

KL 3

Keppel Island; Justice Bay

51.32253 059.93139

Altitude 6m **Aspect** South **Vegetation ht** 5-20 cms**Vegetation cover** 100%Dwarf Shrub Heath – *Empetrum rubrum*, *Baccharis magellanica*, *Deschampsia flexuosa*, *Oxalis enneaphylla*, *Rumex acetosella*.

si 8/03/10 Searching 30 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			1
<i>Selkirkiella ventrosus rubra</i>			1
<i>Sanogasta backhauseni</i>			1
<i>Beierobisium oppisium</i>		1	1
<i>Anyphaenidae</i> immature			17

KL 4

Keppel Island; Justice Bay

51.32140 059.93237

Altitude 0m **Aspect** North **Vegetation ht** 30 cms **Vegetation cover** 50%Shoreline – overhanging *Empetrum rubrum*, *Poa robusta*, *Crassula moschata*, *Plantago barbata*, bare rock.

si 8/03/10 Beating 30 minutes

sii 8/03/10 Collecting from webs

Species	Adult male	Adult female	Total
<i>Molinaranea magellanica</i>			9

siii 8/03/10 Searching on rock

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	1		1
<i>Selkirkiella ventrosus rubra</i>			1
<i>Notiomaso shackletoni</i>	1		1
<i>Molinaranea magellanica</i>			5
<i>Rubrius heleni</i>		1	1
<i>Negayan paduana</i>		1	2

siv 8/03/10 Poa robusta 30 minutes

Species	Adult male	Adult female	Total
Laminacauda fuegiana	1	4	6
Laminacauda plagiata		1	1
Molinaranea magellanica			1
Negayan paduana			1
Linyphiidae immature			8

KL 5

Keppel Island; Justice Bay 51.31562 059.93285

Altitude 0m Aspect South Vegetation ht 40 cms Vegetation cover 100%

Shoreline – overhanging Agrostis meyenii, Agrostis magellanica, Crassula moschata, Apium australe, Elymus glaucescens



si 8/03/10 Searching Agrostis 45 minutes

Species	Adult male	Adult female	Total
Falklandia rumbolli	5	2	40
Mecysmauchenius segmentatus	2	1	3
Laminacauda fuegiana	1	2	8
Notiomaso christina		2	2
Rubrius heleni		1	4
Emmenomma oculatum			2
Hoggellula vallentini	6		10
Linyphiidae immature			29

sii 8/03/10 Searching Agrostis 15 minutes

Species	Adult male	Adult female	Total
Falklandia rumbolli			1
Mecysmauchenius segmentatus	1		1
Selkirkiella ventrosus rubra	2		3

KL 6

Keppel Island; Southside

51.35079 059.96451

Altitude 0m **Aspect** South **Vegetation ht** 500 cms **Vegetation cover** 100%

Shoreline – overhanging Hebe elliptica, Agrostis sp, Crassula moschata, Isolepis cernua, Hierochloe redolens.



si 9/03/10 Beating Hebe 30 minutes

Species	Adult male	Adult female	Total
Falklandia rumbolli	1	2	3
Selkirkiella ventrosus rubra	1	3	11
Rubrius heleni	9	11	26
Negayan paduana	1	1	2
Negayan excepta		1	1

sii 9/03/10 Searching Agrostis, Hierochloe 30 minutes

Species	Adult male	Adult female	Total
Falklandia rumbolli	3	1	9
Selkirkiella ventrosus		1	4
Emmenomma (beauchenicum?)			1
Negayan paduana			1

KL 7

Keppel Island; Southside

51.34993 059.96999

Altitude 3m **Aspect** South **Vegetation ht** 500 cms **Vegetation cover** 100%

Shoreline – overhanging Hebe elliptica, Blechnum magellanicum.



si	9/03/10	Beating Hebe	30 minutes
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Species	Adult male	Adult female	Total
Selkirkiella ventrosus			2
Selkirkiella ventrosus rubra		1	2
Laminacauda sp			1

sii	9/03/10	Searching <i>Blechnum</i> litter	30 minutes
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Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			1
<i>Mecysmauchenius segmentata</i>		1	1
<i>Selkirkiella ventrosus</i>		1	4
<i>Selkirkiella ventrosus rubra</i>			1
<i>Molinaranea magellanica</i>			1
<i>Hahnia michaelsoni</i>	3		3
<i>Emmenomma oculatum</i>			16
<i>Rubrius heleni</i>			1
<i>Negayan paduana</i>			3
Phalangiidae immature			1

KL 8

Keppel Island; Fern Gully 51.34880 059.96120

Altitude 20m **Aspect** South **Vegetation ht** 40-60 cm **Vegetation cover** 100%
Tall Fern bed - *Blechnum magellanicum*, *Myrteola nummularia*, *Empetrum rubrum*, *Luzuriaga marginata*, *Gaultheria* sp.



si	9/03/10	Searching Blechnum	20 minutes
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Species	Adult male	Adult female	Total
<i>Ocornolobus otariorum</i>			1
<i>Mecysmauchenius segmentatus</i>		1	1
<i>Dubiaranea hadassa</i>	1		1
<i>Emmenomma oculatum</i>			4
<i>Emmenomma</i> (<i>beauchenicum</i> ?)			1
Linyphiidae immature			1

KL 9

Keppel Island; Fern Gully

51.34594 059.95898

Altitude 95m **Aspect** South **Vegetation ht** 30 cm **Vegetation cover** 100%

Dwarf Shrub Heath/Tall Fern bed - Blechnum magellanicum, Gunnera magellanica, Hierochloa redolens, Blechnum penna-marina, Luzuriaga marginata, Olsynium filifolium.

si 9/03/10

Searching Blechnum

20 minutes

Species	Adult male	Adult female	Total
Osornolobus otariorum			2
Selkirkiella ventrosus rubra		1	3
Dubiaranea hadassa		2	2
Hahnia michaelsoni		2	3
Emmenomma oculatum			7
Sanogasta backhauseni			1
Negayan paduana	1		1

KL 10

Keppel Island; Fern Gully

51.34303 059.95850

Altitude 157m **Aspect** South **Vegetation ht** 40 cm **Vegetation cover** 100%

Dwarf Shrub Heath/Tall Fern bed - Blechnum magellanicum



si 9/03/10

Searching Blechnum

20 minutes

Species	Adult male	Adult female	Total
Dubiaranea species hadassa			1
Hahnia michaelsoni	2		4
Emmenomma oculatum		1	8
Hoggellula vallentini	1		1
Beierobisium oppositum	2		2

KL 11

Keppel Island; Fern Gully top

51.34088 059.95930

Altitude 200m **Aspect** South **Vegetation ht** 5-20 cms**Vegetation cover** 100%Dry grassland - *Agrostis* sp, *Marsippospermum grandiflorum*, *Rubus geoides*, *Hierochloa redolens*, *Blechnum penna-marina*, *Luzuriaga marginata*.

si 9/03/10 Searching – grass 30mins

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			1
<i>Cybaeolus</i> nspA		1	1
<i>Haversia defensa</i>	1		1

KL12a

Keppel Island; North Bay

Gunnera magellanica dominated dwarf shrub heath. Per R Lewis

9/03/10

Species	Adult male	Adult female	Total
<i>Notiomaso</i> sp			1

KL12b

Keppel Island; Cove Hill

Per R Lewis

9/03/10

Species	Adult male	Adult female	Total
<i>Alopecosa nigricans</i>		2	3
<i>Negayan excepta</i>	1		1
<i>Petrichus niveus</i>			2

KL13

Keppel Island; Settlement House

House – on walls of rooms at night

si 9/03/10 Collected by hand from room interiors

Species	Adult male	Adult female	Total
<i>Rubrius heleni</i>	6		6

KL 14

Keppel Island; North Albatross colony

51.30981 060.04022

Altitude 29m **Aspect** West **Vegetation ht** 50 cms **Vegetation cover** 100%Tussac – *Poa flabellata*, *Oxalis acetosella*.

si 10/03/10 Searching – Tussac 30mins

Species	Adult male	Adult female	Total
<i>Falklandia rubroli</i>	2	2	23
<i>Laminacauda fuegianum</i>	5	4	9
<i>Laminacauda plagiata</i>	5	6	11
<i>Notiomaso barbatus</i>		1	1
<i>Notiomaso flavus</i>	12	5	31
<i>Negayan paduana</i>		1	6
Linyphiidae immature			42

sii 10/03/10 Searching – Tussac 30mins

Species	Adult male	Adult female	Total
<i>Falklandia rubroli</i>		3	25
<i>Laminacauda fuegianum</i>	3	2	5
<i>Laminacauda plagiata</i>	2		2
<i>Notiomaso shackletoni</i>	4	2	6
<i>Notiomaso flavus</i>	3	1	4
<i>Alopecosa nigricans</i>	1	1	2
<i>Rubius heleni</i>		1	2
<i>Negayan paduana</i>	4		47
Linyphiidae immature			25

KL 15

Keppel Island; North Tussac fringe

51.30826 060.03367

Altitude 0m **Aspect** West **Vegetation ht** 50 cms **Vegetation cover** 100%Tussac – *Poa flabellata*, *Oxalis acetosella*, *Gunnera magellanica*

si

10/03/10

Searching – Tussac

20mins

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	2	2	34
<i>Osornolobus otariorum</i>			1
<i>Notiomaso christina</i>	1	2	3
<i>Rubrius heleni</i>		2	6
<i>Negayan paduana</i>		1	1
<i>Hoggellula vallentini</i>	1		1
Linyphiidae immature			1

KL 16

Keppel Island; North Rockhopper colony

51.31053 060.03983

Altitude 33m **Aspect** West **Vegetation ht** 1.5 m **Vegetation cover** 100%Tussac – *Poa flabellata*, *Oxalis acetosella*, *Agrostis* sp.

si

10/03/10

Searching – Tussac

45mins

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	6	7	86
<i>Laminacauda fuegianum</i>	1	1	2
<i>Laminacauda plagiata</i>		2	2
<i>Notiomaso shackletoni</i>	6		6
<i>Notiomaso flavus</i>		1	4
<i>Rubrius heleni</i>		1	6
<i>Negayan paduana</i>	3	4	44
<i>Beierobisium oppositum</i>	1		1
Linyphiidae immature			15

KL 01

Casual collections 8/03/10

- i Anyphaenidae – in rucsac
- ii Alopecosa – Glen point per A Bayliss
- iii Molinaranea – in tall fern at NW end of island per R Lewis
- iiii Molinaranea – in pine and gorse near Settlement per R Lewis

Species	Adult male	Adult female	Total
Molinaranea magellanica			4
Emmenomma oculatum		1	1
Negayan paduana			1

KL 02

8/03/10

Gorse by Settlement, collected from webs with stabilimenta

Species	Adult male	Adult female	Total
Molinaranea magellanica	2		4

KL 03

9/03/10

Collected on pass summit between Settlement and Fern Gully

Species	Adult male	Adult female	Total
Molinaranea magellanica		1	2
Petrichus niveus	4	1	5

KH 1

Keppel House

Altitude 5m Aspect - Vegetation ht - Vegetation cover -

House

si 8/03/10 In bathroom

Species	Adult male	Adult female	Total
Selkirkiella ventrosus	1		1
Diplocephalus cristatus		1	1
Rubrius heleni	1		1

3b. Weddell Island

WL 1

Weddell Island; Island Harbour 51.88607 060.89162

Altitude 0m Aspect - Vegetation ht 20 cms Vegetation cover 100%

Maritime grassland – *Poa robusta*, *Holcus lanatus*, *Poa flabellata* (dead).



si	12/03/10	Searching – <i>Poa robusta</i>	20 mins	
		Species	Adult male	Adult female
		Total		
		Falklandia rumbolli		1
		Notiomaso christina	1	3
		Notiomaso shackletoni	1	2
		Negayan paduana		3
		Linyphiidae immature		3
sii	12/03/10	Searching – <i>Holcus lanatus</i>	20 mins	
		Species	Adult male	Adult female
		Total		
		Laminacauda plagiata	2	1
		Notiomaso christina		1
		Notiomaso shackletoni	1	
		Alopecosa nigricans	1	
		Negayan paduana		3
		Negayan excepta		1
		Linyphiidae immature		7
siii	12/03/10	Searching – <i>Poa flabellata</i>	10 mins	
		Species	Adult male	Adult female
		Total		
		Notiomaso barbatus		1
		Rubrius heleni		1
		Linyphiidae immature		1

WL 2

Weddell Island; Island Harbour, Mark Point

51.88505 060.88216

Altitude 3m **Aspect** - **Vegetation ht** 20 cms **Vegetation cover** 100%

Maritime grassland with Hebe on cliff – Hebe elliptica, Holcus lanatus, Poa pratensis.



si 12/03/10 Searching – Hebe elliptica 20 mins

Species	Adult male	Adult female	Total
Negayan paduana		2	11
Linyphiidae immature			2

WL 3

Weddell Island; Island Harbour, Mark Point

51.88913 060.87256

Altitude 3m **Aspect** - **Vegetation ht** 40 cms **Vegetation cover** 100%

Dwarf shrub heath – Empetrum rubrum, Holcus lanatus, Luzula alopecurus.



si 12/03/10 Searching – Empetrum, Holcus 30 mins

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra		1	2
Theridion reticulatum		1	1
Emmenomma oculatum			2
Negayan paduana		1	33
“Haversia” type Phalangiidae	1		1
Linyphiidae immature			1

WL 4

Weddell Island; Settlement garden

51.89410 060.91185

Altitude 3m **Aspect** - **Vegetation ht** -
 Garden – Trees, Picea sp, Cupressus macrocarpa.

Vegetation cover 100%

si

13/03/10

Beating

30 mins

Species	Adult male	Adult female	Total
Selkirkiella ventrosus		2	6
Rubrius heleni	1	5	11

WL 5

Weddell Island; Settlement

51.89355 060.91283

Altitude 3m **Aspect** - **Vegetation ht** -
 Garden – Trees, Picea sp, Cupressus macrocarpa, Ulex europaeus.

Vegetation cover 100%

si

13/03/10

Beating

30 mins

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra		1	6
Dubiaranea "weddel"		2	2
Molinaranea magellanica			2
Rubrius heleni		8	21

WL 6

Weddell Island; The Loop

51.77533 060.91186

Altitude 5m **Aspect** North **Vegetation ht** 1.5 m **Vegetation cover** 100%
 Tussac – *Poa flabellata*.



si 14/03/10 Searching 60 mins

Species	Adult male	Adult female	Total
Falklandia rumbolli			6
Osornolobus otariorum			2
Notiomaso flavus	3		3
Dubiaranea "weddeli"	2	4	8
Emmenomma oculatum		2	19
Rubrius heleni	1	1	9
Negayan paduana		3	21
"Hoggellula" type Phalangiidae	2		2
Beierobisium oppisum	1		1
Linyphiidae immature			7

WL 7

Weddell Island; The Loop

51.77258 060.90915

Altitude 2m **Aspect** North **Vegetation ht** 2.0 m **Vegetation cover** 100%
 Tussac – *Poa flabellata*, *Holcus lanatus*.

si 14/03/10 Searching 60 mins

Species	Adult male	Adult female	Total
Falklandia rumbolli	2		11
Notiomaso flavus	4	3	7
Dubiaranea "weddeli"	3	2	5
Dubiaranea cf spinosa	1	2	3
Hahnia michaelsoni	1	1	2
Emmenomma oculatum			11
Rubrius heleni		1	4
Negayan paduana	2	6	54
Linyphiidae immature			5

WL 8

Weddell Island; Martin's Beech

51.77239 060.85844

Altitude 2m **Aspect** North-west **Vegetation ht** 60 cms **Vegetation cover** 100%
 Marram grassland – *Ammophila arenaria*.



si 14/03/10 Searching 20 mins

Species	Adult male	Adult female	Total
<i>Falklandia rubicollis</i>	1		3
<i>Selkirkia ventriosus rubra</i>			5
<i>Rubius heleni</i>		1	1
<i>Negayan paduana</i>		2	20
<i>Negayan excisa</i>		2	2
<i>Negayan</i> sp immature			10
<i>Coptoprepes</i> cf <i>ecotono</i>		1	1

WL9(S)

Weddell Island; Loop Shanty

Altitude - **Aspect** - **Vegetation ht** - **Vegetation cover** -

House – interior of unoccupied shanty

si 14/03/10 Searching

Species	Adult male	Adult female	Total
<i>Falklandia rubicollis</i>		1	1
<i>Selkirkia ventriosus rubra</i>	1		1
<i>Emmenomma oculatum</i>	1		1
<i>Rubius heleni</i>	1		1
<i>Negayan paduana</i>	1	1	2

WL 9

Weddell Island; Gull Point, Fish Creek

51.90952 060.90549

Altitude 0m **Aspect** - **Vegetation ht** 40 cms **Vegetation cover** 100%Maritime grassland – *Holcus lanatus*, *Poa alopecurus*, *Empetrum rubrum*, *Blechnum penna-marina*.

si

15/03/10

Searching grass litter

45 mins

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	1		15
<i>Laminacauda plagiata</i>		1	1
<i>Notiomaso flavus</i>	1		1
<i>Hahnia michaelsoni</i>		1	1
<i>Rubrius heleni</i>			1
<i>Emmenomma oculatum</i>			1
<i>Sanogasta backhauseni</i>			1
<i>Negayan paduana</i>	2	6	20
<i>Negayan excepta</i>	1	1	2
<i>Linyphiidae</i> immature			4
<i>Philodromidae</i> immature			1

WL 10

Weddell Island; Gull Point, Unnamed Bay

51.90945 060.89333

Altitude 1m **Aspect** - **Vegetation ht** 40 cms **Vegetation cover** 100%Maritime grassland – Grasses, *Galium antarcticum*.

si 15/03/10 Searching grass litter 60 mins

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>		1	8
<i>Osornolobus otariorum</i>			1
<i>Selkirkiella species</i>			3
<i>Styposis adami</i>		1	1
<i>Molinaranea magellanica</i>			1
<i>Emmenomma oculatum</i>			6
<i>Rubrius heleni</i>		1	9
<i>Sanogasta backhauseni</i>			1
<i>Negayan paduana</i>	1	19	40
<i>Negayan excepta</i>			1

WL 11

Weddell Island; Fish Creek

51.91001 060.91195

Altitude 7m **Aspect** North East **Vegetation ht** 60 cms **Vegetation cover** 100%Fern bed – *Blechnum magellanicum*.

si 15/03/10 Searching fern litter 30 mins

Species	Adult male	Adult female	Total
<i>Styposis adami</i>	1		1
<i>Dubiaranea "weddeli"</i>		1	1
<i>Hahnia michaelsoni</i>	1	3	4
<i>Emmenomma oculatum</i>		6	11
<i>Negayan paduana</i>	1	4	7

WL 12

Weddell Island; Settlement Paddocks

51.88935 060.91110

Altitude 20m **Aspect** South **Vegetation ht** 5-20 cms**Vegetation cover** 100%

Semi-improved grass – Cortaderia pilosa, Festuca sp, Holcus lanatus, Gunnera magellanica.



si 16/03/10 Searching 30 mins

Species	Adult male	Adult female	Total
Mecysmauchenius segmentatus	2	2	7
Styposis adami		1	1
Laminacauda sp			1
Notiomaso flavus	1	2	3
Sanogasta backhauseni			1
Negayan paduana			1
Negayan excepta	1	4	8

WL 13

Weddell Island; Settlement

51.89127 060.92107

Altitude 7m **Aspect** - **Vegetation ht** 20 cms **Vegetation cover** 100%

Semi-improved grass by house – Dactylus glomerata, Festuca sp, Holcus sp.

si 16/03/10 Searching 10 mins

Species	Adult male	Adult female	Total
Selkirkiella ventrosus rubra			1
Rubrius heleni			1
Negayan excepta		3	3
Coptoprepes cf ecotono			1
Linyphiidae immature			2

WL H

Weddell Island; Settlement

Altitude 15m **Aspect** - **Vegetation ht** - **Vegetation cover** -

Interior of houses in settlement – Weddell House, Store.

16/03/10

Species	Adult male	Adult female	Total
Falklandia rumbolli			1
Selkirkiella ventrosus	1		1
Tegenaria domestica	1		1
Rubrius heleni	1		1

Conclusions

Keppel and Weddell Islands had diverse spider communities. In both cases, though especially for Weddell Island, only some of the islands' range of habitats and small parts of the island could be sampled in the time available. Characteristically for late summer 2010, both visits were affected by poor weather, which both delayed arrival and hastened departure for Keppel and curtailed sampling time on Weddell.

On Weddell Island, a particular feature was the complex of *Dubiaranea* species, including at least one possible new species. On Keppel the possible presence of *Emmenomma beauchenicum*, currently known only from Beauchene Island, requires further work.

Both Keppel and Weddell support populations of *Hebe elliptica*, which has here been sampled for spiders for the first time. It supports a spider community typical of shrubs, with *Rubrius heleni* conspicuously common on Keppel.

Both islands had populations of *Alopecosa nigricans*, previously known from only three western islands. On both islands it was found with *Emmenomma oculatum*, a species absent on all the islands on which it had been found before. The Tussac specialist *Notiomaso striatus* was not found in the large Tussac samples taken on both islands. *N. striatus* seems to be restricted to East Falkland and its offshore islands, as *Alopecosa nigricans* is to the west. East-West distributions are also found in flowering plants (Broughton and McAdam, 2005)

Table 9a. Keppel Island Samples 1

	KL1 si	KL1 sii	KL2 si	KL3 si	KL4sii	KL4siii	KL4siv	KL5 si	KL5 sii	KL6 si	KL6 sii	KL7 si	KL7 sii	KL8 si
Falklandia rumbolli	5					1		40	1	3	9			
Osornolobus „otriorum“				1									1	1
Mecysmauchenius segmentatus								3	1				1	1
Selkirkiella ventrosus		8										2	4	
Selkirkiella ventrosus rubra		31	10	1		1			3	11	4	2	1	
Laminacauda fuegiana							1	8						
Laminacauda plagiata	2						1							
Notiomaso barbatus														
Notiomaso „christina“								2						
Notiomaso „shackletoni“			1			1								
Notiomaso flavus														
Dubiaranea „hadassa“		3												2
Diplocephalus cristatus														
Molinaranea magellanica					9	5	1						1	
Alopecosa nigricans														
Hahnia michaelsoni													3	
Cybaeolus nspA														
Emmenomma oculatum								2					16	4
Emmenomma beauchenicum?											1			1
Rubrius „heleni“			36			1		4		26			1	
Sanogasta backhauseni				1										
Negayan paduana	1					1	1			2	1		3	
Negayan excepta										1				
Negayan immature			7	17										
Petrichus niveus														
Linyphiidae immature							8	29				1		1
Haversia defensa														
Hoggellula vallentini								1					1	
Beierobisium oppisutum	1			1										

Table 9a. Keppel Island Samples 2

	KL9	KL10 si	KL11 si	KL13 si	KL14 si	KL14sii	KL15si	KL16 si	KLO ii	KLO3	KH1	KL a s1
Falklandia rumbolli					23	25	34	86				
Osornolobus „otriorum“	2		1				1					
Mecysmauchenius segmentatus												
Selkirkiella ventrosus											1	
Selkirkiella „rubra“	3											
Laminacauda fuegiana					9	5		2				
Laminacauda plagata					11	2		2				
Notiomaso barbatus					1							
Notiomaso „christina“							3					
Notiomaso „shackletoni“						6		6				
Notiomaso flavus					31	4		4				
Dubiaranea „hadassa“	1	1										
Diplocephalus cristatus											1	
Molinaranea magellanica									4	2		4
Alopecosa nigricans				3		2						
Hahnia michaelsoni	3	4										
Cybaeolus nspA			1									
Emmenomma oculatum	7	8										1
Emmenomma beauchenicum?		1										
Rubrius „heleni“				6		2	6	6			1	
Sanogasta backhauseni	1											
Negayan paduana	1				6	47	1	44				1
Negayan excepta				1								
Petrichus niveus				2						5		
Linyphiidae immature					42	25	1	15				
Haversia defensa			1									
Hoggellula vallentini		1					1					
Beierobisium oppisum		2						1				

Table 10. Weddell Island Samples

	WL1 si	WL1 sii	WL1 siii	WL2 si	WL3 si	WL4 si	WL5 si	WL6 si	WL7 si	WL8 si	WL9 si	WL10 si	WL11 si	WL12 si	WL13 si	WLS	WL H
Mecysem segmentatus														2m2f3i			
Falklandia rumbolli	1im							6i	2m 9i	1f 2m	1m 14i	1f 7i				1f	1if
Osornolobus otariorum								2i				1i					
Selkirkiella ventrosus						2f 4i				5i		3i					1m
Selkirkiella vent rubra					1f 1if		1f 5i								1fi	1m	
Styposis adami												1f	1m	1f			
Theridion reticulatum					1f												
Laminacauda plagiata		2m 1f									1f			1i			
Notiomaso barbatus			1f														
Notiomaso christina	1m,3f,1i	1f															
Notiomaso shackletoni	1m 2f	1m															
Notiomaso flavus								2m	4m 3f		1m			1m 2f			
Dubiaranea "weddel"							2f	2m4f2i	3m 2f				1f				
Dubiaranea cf spinosa									1m 2f								
Tegenaria domestica																	1m
Molinaranea magellanica							2i					1i					
Alopecosa nigricans		1m															
Hahnna michaelsoni									1m 1f	1f	1f		1m 3f				
Emmenomma oculatum					2i			2f 17i	11i		1i	6i	6f 5i			im	
Rubrius heleni			1if			1m5f 5i	8f 13i	1m1f7i	1f 3i		1i	1f 8i			1fi	1m	1m
Sanogasta backhauseni											1i	1i		1im			
Negayan paduana	1m 2f	3i		2f 9if	1f 32i			3f 18i	6f 46i	2f 18i	2m6f12i	1m19f20i	1m 4f	1i		1m 1f	
Negayan excepta		1f								2f 10i	1m 1f	1i		1m1f3i	3f		
Coptoprepes cf ecotono										1f					1mi		
Petrichus niveus											1i						
Linyphiidae immature	3	7	1	2	1			7	5		4						
"Haversia"					1												
"Hoggellula"								2									
Beierobisium oppositum								1									

4. Murrell Valley Survey.

In 2005 Andrew Douse carried out sampling for spiders in a peatland area of the Murrell Valley by pitfall trapping the area for approximately six months, using an array of 15 pitfall traps. The community was very distinctive, with two features requiring further investigation. *Notiomaso australis* was very common – a species until recently thought to be confined to South Georgia. Several specimens of two species of the genus *Platnickia* were taken. The genus has just been reviewed by Grismado and Platnick (2008). This genus is represented in the Falklands by at least one species in addition to *Platnickia bergi* and *Platnickia wedelin*. *Platnickia* specimens have been taken from a few locations in East Falkland but the Murrell Valley site has produced more than any other, including females of what may be a new species. The aim of this work was to further understand the spider community of peatland and to establish the identity of the *Platnickia* complex of possible new species.

Hand sampling was to be carried out across the area sampled by pitfalls in 2005 as this is normally a more productive method and gives a better representation of the whole spider community. However the first hand sampling, on 16 February 2010, produced very few specimens. This was the first indication of the effect on spider collecting of the wet, cold and windy weather that characterised February 2010. As a consequence of this, it was decided to carry out pitfall trapping, using the same number of traps in the same general area as the 2005 sampling. Further hand sampling was carried out, at the pitfall trapping sites, on 5 March 2010, in better weather than the first attempt.

MV 1

Murrell Valley 51.66436 057.93359

Altitude 23m **Aspect** East **Vegetation ht** 20 cms **Vegetation cover** 100%

Wet acid grassland – Hierochloa redolens, Cortaderia pilosa, Sphagnum sp, Gunnera magellanica, Carex camptoglochin, Rostkovia magellanica, Myrteola nummularia, Blechnum penna-marina, Deschampsia flexuosa, Festuca sp, Baccharis magellanica, Agrostis sp.



si 16/02/10 Searching 45 minutes

Species	Adult male	Adult female	Total
Osornobus otariorum	1		1
Mecysmauchenius segmentatus			1
Emmenomma oculatum			1

MV 2

Murrell Valley 51.66502 057.933055

Altitude 21m **Aspect** East **Vegetation ht** 30 cms **Vegetation cover** 100%

Wet acid grassland – Cortaderia pilosa, Hierochloa redolens, Sphagnum sp, Gunnera magellanica, Carex magellanica, Rostkovia magellanica, Blechnum penna-marina, Pratia repens.



si 16/02/10 Searching 45 minutes

Species	Adult male	Adult female	Total
Negayan excepta			1

Pitfall Traps

MVT 1

Murrell Valley 51.66461 057.93349

Altitude 29m **Aspect** East **Vegetation ht** 30 cms **Vegetation cover** 100%

Sphagnum mire – Sphagnum sp, Hierochloe redolens, Marsippospermum grandiflorum, Pratia repens, Festuca contracta, Gunnera magellanica, Myrteola nummularia, Blechnum penna-marina, Baccharis magellanica, Cortaderia pilosa, Agrostis sp.



Pitfall Trapping

Recovery 1 18/02/10 - 23/02/10

Species	Adult male	Adult female	Total
Notiomaso christina	1		1
Dubiaranea hadassa	1		1
Hoggellula vallentini	2		2

Recovery 2 23/02/10 - 01/03/10

Species	Adult male	Adult female	Total
Linga orqueta	1		1
Emmenomma oculatum	1		1

Recovery 3 10/03/10 – 05/03/10

Species	Adult male	Adult female	Total
Mecysmauchenius segmentatus		1	1
Notiomaso christina	1		1
Emmenomma oculatum			1
Phalangiidae adult			1

Recovery 4 05/03/10 – 18/03/10

Species	Adult male	Adult female	Total
Notiomaso christina	2		2
Dubiaranea hadassa		2	2
Emmenomma oculatum			1
Negayan paduana		1	1
Phalangiidae adult			1

Hand sample si 05/03/10 Search – Cortaderia 30 minutes

Species	Adult male	Adult female	Total
Selkirkiella ventrosus			3
Laminacauda plagiata	1		1
Diplocephalus cristatus		1	1

MVT 2

Murrell Valley

51.66471 057.93029

Altitude 29m **Aspect** East **Vegetation ht** 30 cms **Vegetation cover** 100%

Sphagnum sp, Cortaderia pilosa, Gunnera magellanica, Blechnum penna-marina, Rostkovia magellanica, Hierochloa redolens, Agrostis sp, Pratia repens, Festuca contracta.

Wet acid grassland.

**Pitfall Trapping**

Recovery 1 18/02/10 - 23/02/10

Species	Adult male	Adult female	Total
Dubiaranea hadassa		1	1
Emmenomma oculatum	1		3

Recovery 2 23/02/10 - 01/03/10

Species	Adult male	Adult female	Total
Dubiaranea hadassa	3		3
Emmenomma oculatum	3		3

Recovery 3 10/03/10 – 05/03/10

Recovery	Recovery	Recovery	Recovery
Selkirkiella ventrosus	1		1
Dubiaranea hadassa	1	1	2
Emmenomma oculatum	2		4

Recovery 4 05/03/10 – 18/03/10

Species	Adult male	Adult female	Total
Laminacauda fuegiana		1	1
Tenuiphantes tenuis		1	1

Hand Sample si 05/03/10

Search – Cortaderia

30 minutes

Species	Adult male	Adult female	Total
Selkirkiella sp			2
Styposis adami	1		1
Emmenomma oculatum			1
Anyphaenidae immature			1

MVT 3

Murrell Valley

51.66497 057.93137

Altitude 29m **Aspect** East **Vegetation ht** 5-20 cms **Vegetation cover** 100%Dry grassland – *Aria praecox*, *Gunnera magellanica*, *Poa annua*, *Pratia repens*, *Leptinella scariosa*, *Juncus scheuzerioides*, *Luzula multiflora* ssp *congesta*, *Festuca* sp, *Empetrum rubrum*.**Pitfall Trapping**

Recovery 1 18/02/10 - 23/02/10

Species	Adult male	Adult female	Total
<i>Laminacauda fuegiana</i>	1	1	2
<i>Linyphiidae</i> immature			2

Recovery 2 23/02/10 - 01/03/10

Species	Adult male	Adult female	Total
No catch			

Recovery 3 01/03/10 – 05/03/10

Species	Adult male	Adult female	Total
<i>Laminacauda plagiata</i>		1	1
<i>Dubiaranea hadassa</i>	1		1
<i>Tenuiphantes tenuis</i>		2	2

Recovery 4 05/03/10 – 18/03/10

Species	Adult male	Adult female	Total
<i>Dubiaranea hadassa</i>		1	1

Hand sample si 05/03/10 Search – *Cortaderia* 30 minutes

Species	Adult male	Adult female	Total
<i>Selkirkiella ventrosus</i>			2
<i>Selkirkiella ventrosus rubra</i>			3
<i>Styopsis adami</i>		1	1

Table 11. Murrell Valley Samples.

Code	MV1 si	MV2 si	MVT1 si	MVT2 si	MVT3 si	MVT1 R1	MVT1 R2	MVT1 R3	MVT1 R4	MVT2 R1	MVT2 R2	MVT2 R3	MVT2 R4	MVT3 R1	MVT3 R2	MVT3 R3	MVT3 R4
Date	16/02	16/02	05/03	05/03	05/03	23/02	01/03	05/03	18/03	23/02	01/03	05/03	18/03	23/02	01/03	05/03	18/03
<i>Osornolobus otariorum</i>	1																
<i>Mecysmauchenius segmentatus</i>	1							1									
<i>Selkirkiella ventrosus</i>			3	2	2							1					
<i>Selkirkiella ventrosus rubra</i>					3												
<i>Styposis adami</i>				1	1												
<i>Laminacauda fuegianum</i>													1	2			
<i>Laminacauda plagiata</i>			1													1	
<i>Notiomaso christina</i>						1		1	2								
<i>Linga orqueta</i>							1										
<i>Dubiaranea hadassa</i>						1			2	1	3	2				1	1
<i>Diplocephalus cristatus</i>			1														
<i>Tenuiphantes tenuis</i>													1			2	
<i>Emmenomma oculatum</i>	1			1			1	1	1	3	3	4					
<i>Negayan paduana</i>									1								
<i>Negayan excepta</i>		1															
<i>Linyphiidae</i> immature														2			
<i>Anyphaenidae</i> immature				1													
Harvestman						2		1	1								
Total	3	1	5	5	6	4	2	4	7	4	6	7	2	4	0	4	1

Table 12. Comparison of spider catch in Murrell Valley 2005 – 2010.

Species	2005	2010	presence	trend
	26/02 – 26/03	10/02 - 18/03	year	
<i>Osornolobus otariorum</i>	4	0	05	-ve
<i>Mecysmauchenius segmentatus</i>	2	1	05/10	-ve
<i>Selkirkiella ventrosus</i>	0	1	10	+ve
<i>Laminacauda fuegianum</i>	3	3	05/10	=
<i>Laminacauda diffusa</i>	1	0	05	-ve
<i>Laminacauda plagiata</i>	2	1	05/10	-ve
<i>Notiomaso christina</i>	18	4	05/10	-ve
<i>Notiomaso australis</i>	257	0	05	-ve
<i>Linga orqueta</i>	3	1	05/10	-ve
<i>Dubiaranea hadassa</i>	1	11	05/10	+ve
<i>Stictonanus paucus</i>	3	0	05	-ve
<i>Tenuiphantes tenuis</i>	0	3	10	+ve
<i>Hahnia michaelsoni</i>	12	0	05	-ve
<i>Emmenomma oculatum</i>	12	13	05/10	+ve
<i>Rubrius heleni</i>	12	0	05	-ve
<i>Negayan paduana</i>	69	1	05/10	-ve
<i>Negayan excepta</i>	6	0	05	-ve
<i>Platnickia bergi</i>	4	0	05	-ve
Phalangiidae	10	4	05/10	-ve
Species	17	12	19	19
Individuals	441	42		4 +ve; 14 -ve

Conclusions

Sampling in the Murrell Valley was the least successful part of the 2010 work. While a good range of spiders was found, confirming the richness of the area, both the number of species and the number of individuals caught was far less than in 2005. This is almost certainly a result of the cold, wet and windy weather in February and early March 2010, and gives some insight into the effect of weather on spider activity and their catchability. The differences are summarised in Table 12, comparing the catch for February 2005 and 2010. Approximately 10% of the total catch made in 2005 was made in 2010, with 5 less species present. It should be noted that while the time and number of traps was the same in the two years, the exact position of the traps was not identical. However the difference in numbers caught is great, and must be in large part a result of the cold, wet, windy weather in February and March 2010.

Notiomaso australis, so common in 2005, was not found at the Murrell Valley sites in 2010. No progress has been made on establishing the identity of the proposed new species of *Platnickia* in 2010 because few new specimens were collected.

5. Tussac Grass community on East Falkland.

In 2004, systematic collections were made in dense Tussac Grass areas on Sea Lion Island, revealing a distinctive spider community with the very rare *Notiomaso striatus*, only known previously from Beauchene Island. These two islands were the confirmed world distribution for the species. In 2007, a British Schools Expedition Society group found 4 immature specimens, probably of this species, in Tussac on Emily Island, off East Falkland. Fuller (1995) reported a specimen from East Falkland. The aim of this work is to sample several extensive Tussac communities on East Falkland to determine the spider community and establish the status of the globally rare *Notiomaso striatus*.

Extensive areas of Marram grass (*Ammophila arenaria*) were not encountered in 2004, and the opportunity was taken to sample these at Bertha's Beach and on Weddell Island.

Tussac

GCN 1

Gypsy Cove 51.67377 057.81400

Altitude 1m Aspect North Vegetation ht 1.5 metre Vegetation cover 100%

Tussac – *Poa flabellata*, *Senecio vulgaris*, *Deschampsia flexuosa*, *Hierochloa redolens*, *Empetrum rubrum*, *Blechnum penna-marina*.



si 16/02/10 Tussac searching 30 minutes

Species	Adult male	Adult female	Total
Falklandia rumbolli			2
Osornolobus otariorum			7
Mecysmauchenius segmentatus	1	2	7
Selkirkiella ventrosus	1	3	15
Selkirkiella ventrosus rubra			1
Notiomaso flavus	2	4	11
Dubiaranea hadassa		2	2
Hahnia michaelsoni		1	1
Anisacate fuegianum			2
Emmenomma oculatum		3	29
Negayan paduana			1

sii 16/02/10 Blechnum penna-marina, Empetrum rubrum searching 30 minutes

Species	Adult male	Adult female	Total
Falklandia rumbolli			1
Notiomaso barbatus	2	2	4
Negayan paduana			1

HBN 1

Hadassa Bay 51.67514 057.81752

Altitude 1m **Aspect** North-west **Vegetation ht** 1.7 metre **Vegetation cover** 95%
 Tussac – *Poa flabellata*, *Poa annua*.



si 16/02/10 Tussac searching 30 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			5
<i>Mecysmauchenius segmentatus</i>		1	2
<i>Selkirkiella ventrosus</i>		1	4
<i>Notiomaso flavus</i>		1	2
<i>Linga orqueta</i>		1	1
<i>Dubiaranea hadassa</i>	3	2	6
<i>Tenuiphantes tenuis</i>		2	2
<i>Anisacate fuegianum</i>			1
<i>Emmenomma oculatum</i>		1	24
<i>Haversia defensa</i>	2		8

HBN 2

Hadassa Bay 51.67553 057.81782

Altitude 10m **Aspect** West **Vegetation ht** 2.0 metre **Vegetation cover** 98%
 Tussac – *Poa flabellata*.

si 01/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			4
<i>Selkirkiella ventrosus</i>			1
<i>Notiomaso flavus</i>		1	2
<i>Dubiaranea hadassa</i>	1		2
<i>Tenuiphantes tenuis</i>		1	1
<i>Anisacate fuegianum</i>			1
<i>Emmenomma oculatum</i>			27
<i>Linyphiidae</i> immature			6

HBN 3

Hadassa Bay 51.67577 057.81762

Altitude 2m **Aspect** North **Vegetation ht** 2.0 metre **Vegetation cover** 98%
 Tussac – *Poa flabellata*.



si 01/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			2
<i>Mecysmauchenius segmentatus</i>	1		1
<i>Anisacate fuegianum</i>			2
<i>Emmenomma oculatum</i>			9
Negayan immature			1
Linyphiidae immature			1

HBN 4

Hadassa Bay 51.67723 057.82156

Altitude 3m **Aspect** South **Vegetation ht** 1.0 metre **Vegetation cover** 100%
 Tussac – *Poa flabellata*.



si 02/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			13
<i>Mecysmauchenius segmentatus</i>			6
<i>Selkirkiella ventrosus</i>			2
<i>Notiomaso flavus</i>	1		1
<i>Notiomaso striatus</i>		2	3
<i>Stictonanus paucus</i>		1	1
<i>Tenuiphantes tenuis</i>		1	1
<i>Emmenomma oculatum</i>		3	23
Negayan paduana		2	6
Linyphiidae immature			1

sii 02/03/10 Collected directly off nearby *Empetrum rubrum*.

Species	Adult male	Adult female	Total
<i>Tenuiphantes tenuis</i>		1	1
Linyphiidae immature			1

HBN 5

Hadassa Bay 51.67952 057.82066

Altitude 1m **Aspect** South **Vegetation ht** 1.0 metre **Vegetation cover** 100%Tussac – *Poa flabellata*.

si 02/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			34
<i>Mecysmauchenius segmentatus</i>	6	3	12
<i>Selkirkiella ventrosus</i>		3	11
<i>Laminacauda plagiata</i>		1	1
<i>Notiomaso flavus</i>	1	5	8
<i>Tenuiphantes tenuis</i>	1		3
<i>Anisacate fuegianum</i>		1	3
<i>Emmenomma oculatum</i>		2	76
<i>Negayan paduana</i>		1	2

sii 02/03/10 Nearby *Deschampsia flexuosa*, *Galium antarctica*, *Blechnum penna-marina*

Species	Adult male	Adult female	Total
<i>Negayan paduana</i>		1	1
<i>Negayan immature</i>			1

OP 1

Ordinance Point 51.67391 057.81172

Altitude 3m **Aspect** North **Vegetation ht** 1.5 metre **Vegetation cover** 100%Tussac – *Poa flabellata*.

si 01/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
<i>Osornolobus otariorum</i>			1
<i>Mecysmauchenius segmentatus</i>		1	1
<i>Selkirkiella ventrosus</i>			2
<i>Selkirkiella ventrosus rubra</i>		1	1
<i>Notiomaso flavus</i>	1	4	6
<i>Hahnia michaelsoni</i>			6
<i>Anisacate fuegianum</i>			8
<i>Emmenomma oculatum</i>			3
<i>Rubrius heleni</i>			2
<i>Negayan paduana</i>			3

CP 1

Cape Pembroke

51.68214 057.71836

Altitude 3m **Aspect** East **Vegetation ht** 1.5 metre**Vegetation cover** 100%Tussac – *Poa flabellata*, *Apium australe*.

si 17/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>		3	11
<i>Mecysmauchenius segmentatus</i>		1	1
<i>Selkirkiella ventrosus rubra</i>	1		1
<i>Notiomaso striatus</i>	10	18	68
<i>Negayan paduana</i>		4	11
<i>Negayan excepta</i>	1		1
Linyphiidae immature			55
<i>Beierobisium oppositum</i>	9		9

CP 2

Cape Pembroke

51.68212 057.71815

Altitude 1m **Aspect** East **Vegetation ht** 1.5 metre**Vegetation cover** 100%Tussac – *Poa flabellata*, *Poa pratensis*, *Leptinella scariosa*, *Shoncus* sp, *Senecio vulgaris*, *Apium australe*.

si 17/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>		3	9
<i>Mecysmauchenius segmentatus</i>	1		1
<i>Notiomaso shackletoni</i>		1	1
<i>Notiomaso flavus</i>	22	8	30
<i>Notiomaso striatus</i>	1	1	2
<i>Notiomaso immature</i>			54
<i>Negayan paduana</i>	11	1	104
<i>Negayan excepta</i>		4	13
<i>Beierobisium oppositum</i>	20		20

sii 17/03/10 Searching, *P. pratensis*, *Apium*. 30 mins

Species	Adult male	Adult female	Total
<i>Notiomaso shackletoni</i>			2
<i>Notiomaso flavus</i>	3	8	17
<i>Tenuiphantes tenuis</i>		1	1
<i>Negayan paduana</i>			3
<i>Negayan excepta</i>		2	2
<i>Negayan immature</i>			7
Linyphiidae immature			3

Sealion Island

Collected by Martin and Jane Beaton

SLB 1

Sea Lion Island; The Gulch

Altitude - Aspect - Vegetation ht - Vegetation cover -

Tussac – Poa flabellata.

si 15/04/10 Tussac searching

Species	Adult male	Adult female	Total
Falklandia rumbolli			2
Mecysmauchenius segmentatus			1
Notiomaso striatus		1	1
Emmenomma oculatum		1	4
Linyphiidae immature			7
Phalangiidae immature			1

sii 17/03/10 Tussac searching 60 minutes

Species	Adult male	Adult female	Total
Emmenomma oculatum			500

SLB 2

Sea Lion Island; Elephant Corner

Altitude - Aspect - Vegetation ht - Vegetation cover -

Tussac – Poa flabellata.

si 15/04/10 Tussac searching

Species	Adult male	Adult female	Total
Falklandia rumbolli			7
Notiomaso flavus		1	1
Notiomaso striatus		2	3
Rubrius heleni		1	1
Negayan paduana		1	3
Linyphiidae immature			1
Beierobisium oppisium			1

Marram

BB 1

Bertha's Beach

51.88870 058.37828

Altitude 3m Aspect - Vegetation ht 50 cms Vegetation cover 100%

Marram grass – *Ammophila arenaria*



si 20/02/10 Searching 45 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>			2
<i>Selkirkiella ventrosus</i>		1	5
<i>Selkirkiella ventrosus rubra</i>	1	1	5
<i>Notiomaso shackletoni</i>		1	2
<i>Negayan paduana</i>			5
<i>Negayan excepta</i>	3	2	6

BB 2

Bertha's Beach

51.88471 058.35959

Altitude 0m Aspect - Vegetation ht 70 cms Vegetation cover 95%

Marram grass – *Ammophila arenaria*

si 24/02/10 Searching 60 minutes

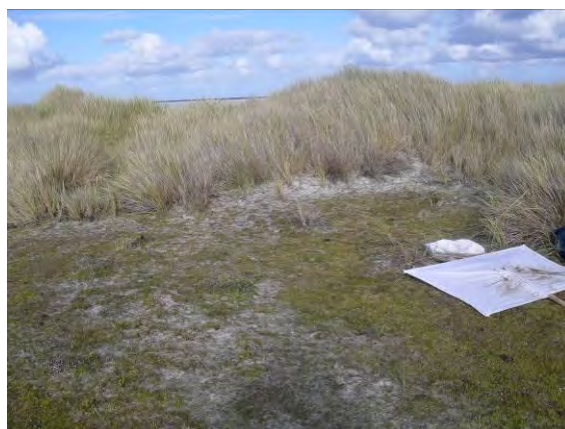
Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	4	1	8
<i>Osornolobus otariorum</i>			5
<i>Selkirkiella ventrosus rubra</i>			5
<i>Styposis adami</i>	2	1	3
<i>Emmenomma oculatum</i>			8
<i>Negayan excepta</i>		1	1
<i>Negayan immature</i>			11
<i>Coptoprepes ecotono</i>			1
<i>Linyphiidae immature</i>			1

BB 3

Bertha's Beach

51.88583 058.35536

Altitude 2m **Aspect** West **Vegetation ht** 50 cms **Vegetation cover** 50%
 Marram grass – *Ammophila arenaria*, *Juncus scheuzeroides*, *Leptinella scariosa*.



si 24/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
<i>Selkirkiella ventrosus</i>		1	1
<i>Notiomaso barbatus</i>		1	1
Negayan immature			2

BB 4

Bertha's Beach

51.88588 058.36661

Altitude 3m **Aspect** West **Vegetation ht** 70 cms **Vegetation cover** 90%
 Marram grass – *Ammophila arenaria*, *Leptinella scariosa*.

si 24/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	1		4
<i>Styposis adami</i>	1	1	4
<i>Notiomaso flavus</i>		1	1
<i>Emmenomma oculatum</i>			1
<i>Sanogasta backhauseni</i>			1
Negayan paduana		1	1
Negayan excepta	3	3	6
Negayan immature			30

BB 5

Bertha's Beach

51.88649 058.37379

Altitude 0m **Aspect** North **Vegetation ht** 80 cms **Vegetation cover** 90%
 Marram grass – *Ammophila arenaria*.

si 24/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	2	3	16
<i>Selkirkiella ventrosus</i>		2	2
<i>Selkirkiella ventrosus rubra</i>		3	1
<i>Notiomaso shackletoni</i>	1	3	4
<i>Emmenomma oculatum</i>	1		4
<i>Sanogasta backhauseni</i>	2		6
Negayan paduana		3	3
Negayan excepta	4		4
Negayan immature			43
<i>Coptoprepes cf ecotono</i>		5	5
Linyphiidae immature			1

BB 6

Bertha's Beach

51.88689 058.37437

Altitude 0m **Aspect** - **Vegetation ht** 70 cms **Vegetation cover** 80%Marram grass – *Ammophila arenaria*.

si 24/02/10 Searching 30 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>	1	2	15
<i>Notiomaso shackletoni</i>		1	1
<i>Emmenomma oculatum</i>			4
<i>Sanogasta backhauseni</i>			1
<i>Negayan paduana</i>			2

CP 3

Cape Pembroke

51.68235 057.71867

Altitude 4m **Aspect** South **Vegetation ht** 20-50 cms **Vegetation cover** 100%Maritime grassland – *Ammophila arenaria*, *Stellaria debilis*.

si 17/03/10 Searching 20 minutes

Species	Adult male	Adult female	Total
<i>Falklandia rumbolli</i>			1
<i>Selkirkella ventrosus</i>			9
<i>Selkirkella ventrosus rubra</i>			5
<i>Notiomaso barbatus</i>		1	1
<i>Notiomaso flavus</i>	1		1
<i>Stictonanus paucus</i>		1	1
<i>Tenuiphantes tenuis</i>	3		3
<i>Negayan excepta</i>			1
<i>Beierobisium oppisium</i>	3		3

Table 13. Spiders found in Tussac.

	Keppel	Sealion	Weddell	Gypsy Cove	Hadassa Bay	Cape Pembroke	Beauchene	Steeple Jason
			small sample			small sample		small sample
Orsolobidae								
Falklandia rumbolli	pres	pres	pres	pres	pres	pres	pres	pres
Osornolobus „otariorum“		pres	pres	pres	pres			
Mecysmauceniidae								
Mecysmauchenius segmentatus		pres		pres	pres	pres		
Theridiidae								
Selkirkiella ventrosus				pres	pres	pres		
Selkirkiella (ventrosus?) „rubra“				pres		pres		
Styposis „adami“								
Theridion „reticulatum“								
Staetoda grossa								
Linyphiidae								
Neomaso pollicatus								
Laminacauda fuegiana	pres							
Laminacauda diffusa								
Laminacauda plagiata	pres				pres			
Notiomaso barbatus	pres			pres				
Notiomaso „christina“	pres							
Notiomaso „shackletoni“	pres					pres		
Notiomaso australis								
Notiomaso flavus	pres	pres	pres	pres	pres	pres		
Notiomaso striatus		pres			pres	pres	pres	
„Linga orqueta“					pres			
Stictonanus paucus					pres			
Dubiaranea spinosa			pres				pres	pres
Dubiaranea „hadassa“				pres	pres			
Diplocephalus cristatus								
Lepthyphantes leprosus								
Tenuiphantes tenuis				pres	pres	pres		
Tetragnathidae								
Tetragnatha insulata								
Areneidae								
Molinaranea magellanica								
Araneus diadematus								
Lycosidae								
Alopecosa nigricans	pres							
Agelenidae								
Tegenaria saeva								
Tegenaria domestica								
Tegenaria gigantea								
Hahnidae								
Hahnia michaelsoni		pres	pres	pres				
Cybaeolus nspA				pres				
Amaurobidae								
Anisacate fuegianum		pres		pres	pres			
Anisacate fuegianum bransfieldi							pres	
Emmenomma oculatum		pres	pres	pres	pres		pres	
Emmenomma beauchenicum								
Rubrius „heleni“	pres	pres	pres	pres				
Anyphaenidae								
Sanogasta backhauseni								
Negayan paduana	pres	pres	pres	pres	pres	pres	pres	pres
Negayan excepta		pres		pres		pres		
Coptoprepes cf ecotono								
Zodariidae								
Platnickia bergi								
Platnickia wedelin								
Platnickia „dark“								
Philodromidae								
Petrichus niveus								
Total species	10	11	8	16	14	10	6	3

Conclusions

A limited number of Tussac sites were visited, in part because of poor weather making some of the remote sites inaccessible. Plans to sample at Cape Dolphin were abandoned because of flooding and repeated attempts to sample on Kidney Island were stopped by high winds.

A major preliminary result is the extension of the known world distribution of *Notiomaso striatus*. Previously known from two small islands, Beauchene and Sealion, a healthy population was found at two sites on East Falkland.

Marram grass communities were sampled for the first time, in part to see if the spider community was related to that of Tussac. The community is closer to that of dry grassland and does not feature some of the characteristic species of Tussac.

6. Other Sites

Christina Bay

CBN 1

Christina Bay 51.68584 057.73199

Altitude 5m **Aspect** South **Vegetation ht** 10-20 cms **Vegetation cover** 80%
Maritime heath – *Gunnera magellanica*, *Luzula alopecurus*, *Leptinella scariosa*, *Apium australe*, *Ammophila arenaria*, *Poa alopecurus*, *Poa robusta*.



si	03/03/10	Searching: Marine heath	45 minutes																																												
	<table border="1"> <thead> <tr> <th>Species</th><th>Adult male</th><th>Adult female</th><th>Total</th></tr> </thead> <tbody> <tr> <td>Selkirkiella ventrosus rubra</td><td></td><td></td><td>1</td></tr> <tr> <td>Styposis adami</td><td></td><td>1</td><td>1</td></tr> <tr> <td>Laminacauda diffusa</td><td></td><td>1</td><td>1</td></tr> <tr> <td>Notiomaso flavus</td><td></td><td>2</td><td>2</td></tr> <tr> <td>Notiomaso shackletoni</td><td></td><td>2</td><td>2</td></tr> <tr> <td>Rubrius heleni</td><td></td><td></td><td>1</td></tr> <tr> <td>Negayan paduana</td><td></td><td>2</td><td>2</td></tr> <tr> <td>Negayan excepta</td><td>2</td><td>2</td><td>4</td></tr> <tr> <td>Negayan immature</td><td></td><td></td><td>20</td></tr> <tr> <td>Linyphiidae immature</td><td></td><td></td><td>24</td></tr> </tbody> </table>			Species	Adult male	Adult female	Total	Selkirkiella ventrosus rubra			1	Styposis adami		1	1	Laminacauda diffusa		1	1	Notiomaso flavus		2	2	Notiomaso shackletoni		2	2	Rubrius heleni			1	Negayan paduana		2	2	Negayan excepta	2	2	4	Negayan immature			20	Linyphiidae immature			24
Species	Adult male	Adult female	Total																																												
Selkirkiella ventrosus rubra			1																																												
Styposis adami		1	1																																												
Laminacauda diffusa		1	1																																												
Notiomaso flavus		2	2																																												
Notiomaso shackletoni		2	2																																												
Rubrius heleni			1																																												
Negayan paduana		2	2																																												
Negayan excepta	2	2	4																																												
Negayan immature			20																																												
Linyphiidae immature			24																																												
sii	03/03/10	Searching: Ammophila	30 minutes																																												
	<table border="1"> <thead> <tr> <th>Species</th><th>Adult male</th><th>Adult female</th><th>Total</th></tr> </thead> <tbody> <tr> <td>Falklandia rumbolli</td><td></td><td></td><td>1</td></tr> <tr> <td>Selkirkiella ventrosus rubra</td><td></td><td>1</td><td>7</td></tr> <tr> <td>Laminacauda diffusa</td><td></td><td>1</td><td>1</td></tr> <tr> <td>Notiomaso christina</td><td></td><td>1</td><td>1</td></tr> <tr> <td>Notiomaso flavus</td><td></td><td>1</td><td>1</td></tr> <tr> <td>Notiomaso shackletoni</td><td></td><td>1</td><td>1</td></tr> <tr> <td>Negayan immature</td><td></td><td></td><td>1</td></tr> <tr> <td>Linyphiidae immature</td><td></td><td></td><td>1</td></tr> </tbody> </table>			Species	Adult male	Adult female	Total	Falklandia rumbolli			1	Selkirkiella ventrosus rubra		1	7	Laminacauda diffusa		1	1	Notiomaso christina		1	1	Notiomaso flavus		1	1	Notiomaso shackletoni		1	1	Negayan immature			1	Linyphiidae immature			1								
Species	Adult male	Adult female	Total																																												
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Linyphiidae immature			1																																												
siii	03/03/10	Searching: Poa alopecurus	30 minutes																																												
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Species	Adult male	Adult female	Total																																												
Notiomaso shackletoni	5		5																																												
Sanogasta backhauseni			1																																												
Negayan paduana		1	1																																												
Negayan excepta		1	1																																												
Negayan immature			22																																												
Linyphiidae immature			28																																												

CBN 2

Christina Bay 51.68542 057.73323

Altitude 12m **Aspect** South **Vegetation ht** 5-15 cms **Vegetation cover** 80%Dry dune heath – *Empetrum rubrum*, *Baccharis magellanica*, *Acaena magellanica*, *Gaultheria pumila*, *Aria praecox*, *Ammophila arenaria*, *Luzula alopecurus*.

si 03/03/10 Searching: Marine heath 45 minutes

Species	Adult male	Adult female	Total
<i>Styposis adami</i>	1	2	4
<i>Selkirkiella ventrosus rubra</i>			2
<i>Notiomaso flavus</i>	1		2
<i>Notiomaso shackletoni</i>		1	1
<i>Negayan</i> immature			3
<i>Platnickia wedelin</i>	1	1	2

CBN 3

Christina Bay 51.68821 057.73652

Altitude 1m **Aspect** South **Vegetation ht** 5-50 cms **Vegetation cover** 100%Wet grassland – *Holcus lanatus*, *Elymus glaucescens*, *Baccharis magellanica*, *Gunnera magellanica*, *Acaena magellanica*, *Agrostis meyenii*.

si 03/03/10 Searching 45 minutes

Species	Adult male	Adult female	Total
Linyphiidae immature			11

CBN 4

Christina Bay 51.68872 057.73647

Altitude 1m **Aspect** South **Vegetation ht** 5-15 cms **Vegetation cover** 100%Dry grassland – *Poa alopecurus*, *Poa robusta*, *Luzula alopecurus*, *Leptinella scariosa*, *Apium australe*.

si 03/03/10 Searching 60 minutes

Species	Adult male	Adult female	Total
<i>Selkirkiella ventrosus rubra</i>	2	3	14
<i>Styposis adami</i>		1	1
<i>Laminacauda fuegianum</i>	2	1	3
<i>Notiomaso barbatus</i>		1	1
<i>Notiomaso christina</i>	1	1	2
<i>Notiomaso flavus</i>		9	9
<i>Notiomaso shackletoni</i>	2	16	18
<i>Negayan paduana</i>		3	3
<i>Negayan excepta</i>	2	2	4
<i>Negayan</i> immature			39
Linyphiidae immature			20

sii 03/03/10 Searching; *Luzula* and *Poa* 30 minutes

Species	Adult male	Adult female	Total
<i>Mecysmauchenius segmentatus</i>		1	1
<i>Selkirkiella ventrosus</i>			8
<i>Styposis adami</i>	1		1
<i>Notiomaso barbatus</i>		1	1
<i>Notiomaso flavus</i>		4	4
<i>Notiomaso shackletoni</i>	2	1	3
<i>Negayan excepta</i>	2	1	3
<i>Negayan</i> immature			26
Linyphiidae immature			4

Conclusion

A collection was made at a range of habitats at Christina Bay, mainly to provide material for DNA analysis. The 2010 sampling confirms Christina Bay as an exceptionally rich site for spiders.

Future Work

Work deriving from 2010 fieldwork

The current information on spiders and harvestmen will be followed up by three main actions:

Publication of the new species of spider; the new species found on the islands will be described and published, starting with the Linyphiidae in 2011.

Resolution of the current confused state on harvestmen; this will involve considerable research and perhaps collaboration with a specialist from continental South America, leading to publication.

An investigation of the origins of the genus *Notiomaso*; DNA analysis will be carried out, in collaboration with Dr Sara Goodacre at the University of Nottingham, to establish if the genus has its origins on Continental South America, the Falkland Islands, South Georgia or continental Antarctica.

Future Fieldwork

Future field work should focus on five topics:

The status of introduced species; this will be facilitated by the current arrangement by which the Department of Agriculture sends specimens for identification.

The spread of *Tenuiphantes tenuis*; necessitating further field work in 3-5 years time.

The distribution of spiders on smaller islands; necessitating intense sampling on as many islands as possible.

Determination the species of *Platnickia* on the islands.

Further work on the spider community of Tussac, on East and West Falkland and on one or more Tussac islands.

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