

APPENDIX 1 Psuedopanax for DNA analysis for a comparative study of GBI species and those on the adjacent mainland.

4 digit numbers following the dates are time collected. These are used as reference numbers and are shown on the bags.

GPS height records are provided for what they are worth. Often up to 30 meters out when compared with the map.

1 Feb 2008 0938A *P. arboreus*

1 Feb 2008 0938B *P. discolor*

Great Barrier Island, Palmers Track from western end of the Windy Canyon to summit of Mt Hobson

E 27 291 62 N 65 556 99 ±5m 377m asl on the GPS

Regenerating scrub of, mainly, *Leptospermum scoparium* to 2 m high

Col: RJL

1 Feb 2008 1007 *P. discolor*

Great Barrier Island, Palmers Track from western end of the Windy Canyon to summit of Mt Hobson

E 27 289 97 N 65 556 68 ±15m, 170m asl on the GPS

Regenerating bush with *Weinmannia silvicola* | *Dacridium cupresinum* | *Prumnopitys ferruginia*/ *Ghania setifolia* | *Sticherus* sp

Col: RJL

1 Feb 2008 1046A *P. discolor*

1 Feb 2008 1046B *P. discolor*

Great Barrier Island, Palmers Track from western end of the Windy Canyon to summit of Mt Hobson

E 27 288 93 N 65 555 41 ±11m, 443m asl on the GPS

Regenerating bush with *Weinmannia silvicola* | *Dacridium cupresinum* | *Prumnopitys ferruginia*/ *Ghania setifolia* | *Sticherus* sp

Col: RJL

1 Feb 2008 1306 *P. discolor*

Great Barrier Island, Summit f Mt Hobson

E 27 275 68 N 65 542 77 ±7m, 629m asl on the GPS 627m asl on the map

Low scrub to about 1.5 m *Phormium tenax* | *Weinmannia silvicola* | *Halocarpus kirkii* | *Astelia trinervia* et al

Col: Neill Simpson

1 Feb 2008 1528 *P. arboreus*

Great Barrier Island, Palmers Track below summit of Mt Hobson

E 27 279 40 N 65 548 45 ±9m, 421m asl on the GPS

Regenerating scrub of *Leptospermum scoparium* to 2 to 3.5 m high over *Paesia scaberula* and *Astelia trinervia*

Col: RJL

2 Feb 2008 1300 *P. discolor*

Great Barrier Island, Forest Road 20 near junction with the Tram Line Track.

E 27 268 64 N 65 505 65 ±20m, 165m asl on the GPS

Regenerating open scrub of *Leptospermum scoparium*

Col: RJL

2 Feb 2008 1547 *P. arboreus* (fruiting)

Great Barrier Island, Kaitoke Hot Springs Track.

E 27 292 09 N 65 501 76 ±15m, 165m asl on the GPS

Regenerating open scrub of *Leptospermum scoparium*

Col: RJL

3 Feb 2008 1 and 2

Great Barrier Island, Track to Tatawera from Mabeys Road (Burrill route).

Bag 1 NZMS 260 S08+T08 264 626

Bag 2 NZMS 260 S08+T08 264 629

“Collected in over, but not obviously burnt, Broad leaved forest. The main canopy spp were; *Vitex lucens*, *Beilschmedia tarairi*, *B. tawa*, and *Metrosideros excelsa*. These were mixed with a very broad range of broad leaved spp especially Nestegis and Metrosideros spp underneath which were *Rhopostylis sapida* and tree ferns.

Substrate- Clay (yellow) over greywacke rock

Physiography - Ridge “

Col: Owen Spearpoint and J. Chris Horne

4 Feb 2008 1443 A and B *P. arboreus* and *P. lessonii*

Great Barrier Island, Track from Orama to Nimaru Bay

P. lessonii @ E 27 221 86 N 65 598 69 ±8m,

P. arborea about 50 m north.

Both at 100m asl on the GPS, which agrees with the map.

Regenerating open scrub of *Leptospermum scoparium* and *Kunzea ericoides* with occasional young *Agathis australis* and *Dacridium cupressinum* over *Geniostoma ligustrifolia* and *Cyathea deabata*

Col: RJL

5 Feb 2008 1442 *P. crassifolius* and *P. arboreus*

Great Barrier Island, Whangaparapara, Old Mill Track

P. crass. at E 27 256 34 N 65 481 45 ±24m around 70m a.s.l. with *P. arboreus* some 40 m away to the west .

The *P. crassifolius* is a single tree, about 15 m high in regenerating coastal forest. Mix of broad leaf trees and shrubs with *Kunzea ericoides* over *Geniostoma ligustrifolia*. Several 2 to 4 m high *P. arboreus* scattered in this forest.

Col RJL

6 Feb 2008 1100 *P. discolor*

Great Barrier Island, Awana Peninsula

E 27 335 13 N 65 518 30 ±13m, 6-8 m a.s.l.

Coastal cliff face with *Phormium tenax* under *Metrosideros excelsa*

Col RJL

6 Feb 2008 1157 (Probably 1158)

Great Barrier Island, Awana Peninsula, Site of Maori Pa

E 27 337 31 N 65 521 25 ±10m, 63 m a.s.l. on GPS

On near vertical bank of old palisade with *Metrosideros excelsa* above and over pasture grass and *Adiantum aethiopicum* and *Arthropodium cirratum*

Col RJL

8 Feb 2008 1830 Two specimens, probably *P. lessonii* and *P. arboreus*

Hobson Bay, Auckland

Immediately below E26 702 71 N 64 813 28 about 4 m a.s.l.

On 45 degree shore side bank in a coastal remnant in urban area.

Col: RJL

APPENDIX 2 Bird sightings

Barry Dent to hjamieson@doc.govt.nz

We are two members of the large Wellington Bot Soc group which has just left GBI. I understand you were interested in sightings of 6 species of birds. We have a current kakariki sighting and an old korimako sighting to report. Sorry about not reporting the korimako earlier, but we did not realise that it might be useful.

7 Feb 2008 14:25. After 30 min of descending Forest Road north from Maungapiko, we took the short signposted track to the large kauri. In and around the kauri were a minimum of 2 and very probably 3 kakariki. The numbers given are from simultaneous calls from different directions. We attempted to verify that they were either RCPs or YCPs, but got only glimpses, being short on time. Our impression of size was that they were RCPs which is of course consistent with what we understand to be on GBI. We have a lot of experience in the field with both species.

27 September 2005 11:00, Coopers Castle track, flattish ridge below castle, above second of two "split" signposts (can't recall what this means- vandalised? -seem to recall split horizontally but still readable). Male and female bellbird feeding young (not seen) at nest in epiphytes at top of nikau trunk. Feeding interval 1-2 min. Often came as a pair- male guarding, female feeding. The male got annoyed at us and we left. We had had only a little experience with korimako, but had the field guide with us and could easily distinguish the male and female of the pair. This is not another "heard a bellbird" report. We have decided not to tell anyone we have encountered bellbirds unless we also see them.

Other sightings noted by members

Robin

On Mt Hobson 7 Feb 2008 below the track junction immediately below the summit around 1330 hrs. No bands visible.

Mt Hobson 1 Feb 2008 below the summit on Palmers Track

Phone line track above Orama 31 January 2008 "Middle of the day"

Kakariki

Mt Hobson 7 Feb 2008

Bellbird

Withey's Track 5 Feb 2008

Pack Track, 5 Feb 2008

Kauri Dam vicinity 7 Feb 2008

Coopers Castle 7 Feb 2008

Rifleman

Northern end of the Harataonga Walkway 6 Feb 2008

This last sighting questioned by DoC as riflemen not seen since 1960.

APPENDIX 3 Telaraneas collected for DNA for a study of the Australasian Telaranea

The type specimens for some Telaranea species come from GBI

The following are the details records for the liverworts collected.

The four digit numbers are time of collection, they are used only as reference numbers.

GPS height records are provided for what they are worth. Often up to 30 meters out when compared with the map

1 Feb 2008 1049

Great Barrier Island, Palmers Track, a bit above Windy Canyon.

E27 288 97 N 65 555 60 ± 36

Underside of a log track side in low scrub, mainly kanuka.

1306 Mt Hobson summit E 27 275 68 N 65 542 77 ±7 Aklt 629m on GPS, 627m on map

1 Feb 2008 1405

Great Barrier Island, Mt Hobson. Close to the summit adjacent to the board walk
Humus on log with *Bazzania adnexa*, *Chilscyphus* and *Libertia micrantha* (=L *puchella*).
Quintinia serrata scrub over *Astelia trinervia*

1 Feb 2008 1416

Great Barrier Island, adjacent to the steps on the second landing below the summit of Mt Hobson.
Humic bank.
Low mist forest of *Halocarpus kirkii*, *Agathis australis*, *Epacris sinclairii*, *Phormium cookianum*, *Blechnum n.z.*

1 Feb 2008 1421

Great Barrier Island, adjacent to the steps on the second landing below the summit of Mt Hobson.
Humus on procumbent trunk of *Halocarpus kirkii*
Low mist forest of *Halocarpus kirkii*, *Agathis australis*, *Epacris sinclairii*, *Phormium cookianum*, *Blechnum n.z.*

1 Feb 2008 1429

Great Barrier Island. Board walk below summit of Mt Hobson, below second landing.
Humus on side of well rotten log
Mist forest with *Weinmannia silvicola* and *Halocarpus kirkii* predominant

1442 Landing at the lower end of the board walk on the summit of Mt Hobson
E27 276 12 N 65 544 30 ±39 606 m on GPS

1 Feb 2008 1447

Great Barrier Island. Track side just below the board walk/steps at summit of Mt Hobson.
Humic hummock track side
Mist Forest with *Quintinia serrata* and *Agathis australis* the main canopy trees over *Astelia trinervia*

1 Feb 2008 1452

Great Barrier Island. Track side just below the board walk/steps at summit of Mt Hobson.
Humic bank track side
Mist Forest with *Quintinia serrata* and *Halocarpus kirkii* the main canopy trees over *Astelia trinervia* with
Ghania sp.

1 Feb 2008 1458

Great Barrier Island. Junction of the Palmer track and track to Cooper's Castle below summit of Mt Hobson
Soil at base of *Belschmedia tarairi*
Mist forest dominated by *Agathis australis* and *Belschmedia tarairi* over *Astelia trinervia* and *Blechnum procerum*

1 Feb 2008 1509

Great Barrier Island. Palmers Track on Mt Hobson at nest marker 40
Humus and fibres on cliff face.
Mist forest dominated by *Agathis australis* and *Weinmannia silvicola* over *Alseuosmia* sp., *Coprosma* sp. and
Blechnum n.z.

1 Feb 2008 1519

Great Barrier Island. Palmers Track on Mt Hobson below nest marker 40.
Humus mon vertical rock cliff, track side.
Mist forest dominated by *Agathis australis* and *Weinmannia silvicola* over *Alseuosmia* sp., *Coprosma* sp. and
Blechnum n.z.

1523 Mt Hobson, left the mist forest and descended into manuka scrub land.
1528 on Palmers Track at E27 279 40 N 65 548 45 ±9m 421 m on GPS

2 Feb 2008 1141

Great Barrier Island. Forest Road 20 between the Wangaparapara Road and junction with Tram Track
E 27 270 98 N 65 497 89 ±20 202 m on GPS

Dry soil bank.

Agathis australis over *Leptospermum scoparium* with some *Halocarpus kirkii*

4 Feb 2008 1043A

Great Barrier Island. Track between Obama camp and Nimaru Bay

60 m up slope from E27 221 84 N65 589 16

Trunk of manuka or kanuka

High scrub of *Leptospermum scoparium* | *Kunzia ericoides* Col Allison Knight

7 Feb 2008 1020

Great Barrier Island. Kaiaraara Road, south of the locked gate.

E 27 232 80 N 65 549 79 ±27

Dry soil bank

Open scrub of *Kunzia ericoides* with *Cyathea dealbata* over *Blechnum n.z.*

APPENDIX 4 Archeria specimens collected for Otago University who are doing a comparative study of Archeria racemosa from various localities.

Two specimens were collected for DNA analysis and herbarium record. The details are set out below.
Four digit numbers are times of collection but are used here only as reference numbers;

1 Feb 2008 1219 Archeria racemosa

NZMS 260 S08 +T08 275 545 approx = to E 175° 25' S 36° 11'

Altitude 520 m a.s.l.

Great Barrier Island, at the base of the last steep slope to the summit of Mt Hobson on the Palmer Track
Tree of about 3.5 metres long, laid over to be almost horizontal,

Mist forest with *Quintinia serrata*, *Halocarpus kirkii* over *Alseuosmia macrophylla*.

Col: Neill Simpson and Rodney Lewington.

ID Neill Simpson

1 Feb 2008 1446 Archeria racemosa

NZMG E 27 276 12 N 65 544 30 ± 35m approx = to E 175° 25' S 36° 11' 606 m on GPs

Altitude 600 m a.s.l.

Great Barrier Island, Summit of Mt Hobson on the Palmer Track. Lower landing of the board walk/steps to the summit.

Shrub about 1 metres high. Track side at base of bank. ,

Mist forest with *Agathis australis*, *Quintinia serrata*, *Halocarpus kirkii* over *Astelia trinervia*.

Col: Rodney Lewington.

ID Rodney Lewington