**Phylogeny of World Tachinidae Project**

**Expeditions**

****

[picture, xxx]

**Eastern Australia, November 28 – December 18, 2013**

by James E. O’Hara [link to my homepage], Pierfilippo Cerretti, John O. Stireman III & Isaac S. Winkler

Total specimens collected by J.E. O’Hara: 592

3 pinned

Australia, New South Wales, Myall Lakes National Park, Dark Point, 32°35.61'S 152°16.10'E, 4m, 29.xi.2013, P. Cerretti & J.E. O’Hara

[Thumb-Dark\_Point.jpg] Dark Point is on the coast in Myall Lakes National Park. It is an area of sand dunes with pockets of vegetation. This was an overcast day and few tachinids were seen. Pierfilippo is pictured. (Photo: J. O’Hara)

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1, 17 pinned

Australia, New South Wales, Myall Lakes National Park, O’Sullivans Gap, 32°20.63'S 152°15.59'E, 28m, 29.xi.–1.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-O'Sullivans\_Gap1.jpg] O’Sullivans Gap picnic area is a large grassy area with towering gum trees. The rainforest edge on the left was frequented by tachinids. P. Cerretti is in the background. (Photo: J. O’Hara)

[Thumb-O'Sullivans\_Gap2.jpg] A trail loops through the rainforest, starting at one end of O’Sullivans Gap picnic area and finishing at the other end. (Photo: J. O’Hara)

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6 pinned

Australia, New South Wales, Myall Lakes National Park, Hawks Nest, 32°40.67'S 152°10.30'E, 3m, 30.xi.2013, P. Cerretti & J.E. O’Hara

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1 pinned

Australia, New South Wales, Myall Lakes National Park, Robinsons Fire Trail, 32°36.18'S 152°14.16'E, 8m, 30.xi.2013, P. Cerretti & J.E. O’Hara

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3 pinned

Australia, New South Wales, Myall Lakes National Park, Mungo Brush Road, 32°31.91'S 152°19.31'E, 18m, 30.xi.2013, P. Cerretti & J.E. O’Hara

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7 pinned

Australia, New South Wales, Myall Lakes National Park, Grandis, 32°21.90'S 152°17.53'E, 14m, 1.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-The\_Grandis.jpg] At 76 m in height, this flooded gum tree (*Eucalyptus grandis*) is thought to be the tallest tree in New South Wales. Called The Grandis, it is about 400 years old and is a remnant of an old-growth forest that once existed in this area. (Photo: J. O’Hara)

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36, 70 pinned

Australia, New South Wales, New England National Park, Point Lookout, 30°29.28'S 152°24.66'E, 1480m, 2–3.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-New\_Eng\_NP1.jpg] Entrance to New England National Park, “Welcome to Gondwana Rainforests of Australia”. (Photo: J. O’Hara)

[Thumb-New\_Eng\_NP2.jpg] Point Lookout is a high promontory deep on the expansive New England National Park. It is among the best hilltopping sites for tachinids in New South Wales. (Photo: J. O’Hara)

[Thumb-New\_Eng\_NP3.jpg] Parking area of Point Lookout, New England National Park. The small tree in the left foreground was frequented by xxx and xxx. (Photo: J. O’Hara)

[Thumb-New\_Eng\_NP4.jpg] A few males of *Senostoma* sp. were captured on tree trunks along the short trail that links the two main lookout points and parking area of Point Lookout. (Photo: J. O’Hara)

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9 pinned

Australia, New South Wales, New England National Park, Banksia Point, 30°29.56'S 152°24.42'E, 1440m, 3.xii.2013, P. Cerretti & J.E. O’Hara

Banksia Point is a short drive down the road from Point Lookout. Here exists a stand of Antarctic beech (*Nothofagus moorei*), a remnant of a cool temperate rainforest dating back to the supercontinent Gondwana when South America and Australia were physically and ecologically joined via Antarctica. The Antarctic beech forests of New England National Park are part of the Gondwana Rainforests of Australia World Heritage Area.

[Thumb-Beech\_forest1.jpg] Antarctic beech (*Nothofagus moorei*) forest near Banksia Point. (Photo: J. O’Hara)

[Thumb-Beech\_forest2.jpg] Fallen and mossed covered trees in Antarctic beech forest. (Photo: J. O’Hara)

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34 pinned

Australia, New South Wales, Cunnawarra National Park, hilltop, 30°40.76'S 152°12.34'E, 720m, 4.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-Cunnawarra\_NP.jpg] Pierfilippo stalks a hovering *Rutilia* sp. on a high point along the track leading to a prominent hilltop. (Photo: J. O’Hara)

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10 pinned

Australia, New South Wales, New England National Park, Bashers Road, 30°29.56'S 152°24.42'E, 1000m, 4.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-Bashers\_Road.jpg] Sandy track through the eucalypt forest. (Photo: J. O’Hara)

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10 pinned

Australia, New South Wales, Mount Lindesay Hwy., near Queensland border, 28°20.13'S 152°41.07'E, 530m, 5.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-Mt\_Lindesay\_Hwy.jpg] Grassy track through the forest along Mount Lindesay Hwy. (Photo: J. O’Hara)

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3 pinned

Australia, Queensland, O’Reilly’s Rainforest Retreat, 28°13.87'S 153°08.21'E, at light, 930m, 5.xii.2013, P. Cerretti & J.E. O’Hara

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15 pinned

Australia, Queensland, Lamington National Park, along park road, 28°13.53'S 153°07.70'E, 890m, 6.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-Lamington\_NP1.jpg] Pierfilippo and Jim at the beginning of a trail in Lamington National Park. (Photo: J. O’Hara)

[Thumb-Lamington\_NP2.jpg] A densely forested trail in Lamington National Park. (Photo: J. O’Hara)

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5 pinned

Australia, Queensland, D’Aguilar National Park, Scrub Road, 27°25.65'S 152°50.48'E, 230m, 7.xii.2013, P. Cerretti & J.E. O’Hara

Scrub Road, a gated track, runs south through a eucalypt forest to a remote campsite about 4 km from Mount Nebo Road (Hwy. 31). Our destination was about 1.5 km down Scrub Road where the eucalypt forest changes to rainforest along the course of a small stream. Despite the appearance of good habitat, tachinids were exceedingly scarce.

[Thumb-D’Aguilar\_Scrub.jpg] Creek about 1.5 km down Scrub Road from the main Mount Nebo Road (Hwy. 31). (Photo: J. O’Hara)

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12 pinned

Australia, Queensland, D’Aguilar National Park, Jolly’s Lookout, 27°23.99'S 152°48.40'E, 490m, 7.xii.2013, P. Cerretti & J.E. O’Hara

[Thumb-D’Aguilar\_Jolly’s.jpg] Jolly’s Lookout, a popular destination for tourists and residents of nearby Brisbane. (Photo: J. O’Hara)

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1 pinned

Australia, Queensland, D’Aguilar National Park, Boombana, 27°24.13'S 152°47.55'E, 490m, 7.xii.2013, P. Cerretti & J.E. O’Hara

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1 pinned

Australia, Queensland, D’Aguilar National Park, Westridge Lookout, 27°21.82'S 152°45.58'E, 500m, 7.xii.2013, P. Cerretti & J.E. O’Hara

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30 pinned, AUS001, 002, 004, ISAU01

Australia, Queensland, D’Aguilar National Park, Somerset Lookout, 27°05.475'S 152°39.803'E, 7.xii.2013, J.O. Stireman & I. Winkler

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None pinned, ISAU02

Australia, Queensland, D’Aguilar National Park, Western Escarpment Forest Drive, at creek, 27°06.012'S 152°40.397'E, 7.xii.2013, J.O. Stireman & I. Winkler

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2 pinned, AUS005, 006-alc, ISAU03

Australia, Queensland, D’Aguilar National Park, Mill Rainforest Walk, creek below car park, 27°04.830'S 152°42.497'E, 7.xii.2013, J.O. Stireman & I. Winkler

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13 pinned

46 pinned, AUS008-017, ISAU04

Australia, Queensland, Bunya Mountains National Park, Mt. Kiangarow & trail, 26°49.87'S 151°32.93'E, 1150m, 8.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Mt.\_Kiangarow1.jpg] Peculiar-looking grass trees (*Xanthorrhoea glauca glauca*), sporting long flower spikes, are common on the summit of Mt. Kiangarow. (Photo: J. O’Hara)

[Thumb-Mt.\_Kiangarow2.jpg] View westward from the summit of Mt. Kiangarow. This mountain peak is the tallest in the Bunya Mountains range. (Photo: J. O’Hara)

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3 pinned

7 pinned, AUS019, 020, 023, ISAU05

Australia, Queensland, Bunya Mountains National Park, near Westcott camping area, 26°51.8'S 151°34.3'E, 1070m, 8.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Bunya\_Westcott1.jpg] Throughout the Bunya Mountains are small areas of natural grassland known as ‘balds’. These balds are recognized as forming an ecologically sensitive and endangered ecosystem that harbours a fragile fauna and flora. John is pictured to the left. (Photo: J. O’Hara)

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2 pinned

Australia, Queensland, outside Bunya Mountains National Park, near Dandabah, 26°52.74'S 151°36.26'E, 1000m, 8.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

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5 pinned

8 pinned, AUS018-alc, 021, 022

Australia, Queensland, outside Bunya Mountains National Park, near Dandabah, 26°52.74'S 151°36.26'E, at light, 1000m, 8–9.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

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17 pinned

Australia, Queensland, Bunya Mountains National Park, trail from Westcott camping area, 26°52.0'S 151°34.2'E, 1070m, 9.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Bunya\_Westcott2.jpg] Trail near Westcott camping area. (Photo: J. O’Hara)

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pan traps, 1 pinned, AUS025-028, ISAU06

13 pinned, AUS029,037,038

Australia, Queensland, Bunya Mountains National Park, Koondaii Lookout, 26°51.74'S 151°33.70'E, 9.xii.2013, J.O. Stireman & I. Winkler

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25 pinned

26 pinned, AUS030,039, ISAU07 [as Paradise Rainforest, 26°52.38'S, 151°34.82'E]

Australia, Queensland, Bunya Mountains National Park, trail to Little Falls, 26°52.3'S 151°34.7'E, 1040m, 9.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Little\_Falls1.jpg] An emergent bunya pine (*Araucaria bidwillii*) towers over the surrounding rainforest. (Photo: J. O’Hara)

[Thumb-Little\_Falls2.jpg] Despite the dense undergrowth in sunny spots along the rainforest trail, tachinids were not common. (Photo: J. O’Hara)

[Thumb-Little\_Falls3.jpg] John braves icy water at the base of Little Falls to sweep flies from the vegetation. (Photo: J. O’Hara)

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16 pinned, AUS031-034,040-041, ISAU08

Australia, Queensland, Bunya Mountains National Park, Mt. Kiangarow, 26°49.83'S 151°32.94'E, 9.xii.2013, J.O. Stireman & I. Winkler

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1 pinned, AU035

Australia, Queensland, Mt. Moffat Road, northwest of Injune, 25°17.45'S 148°0.33'E, 10.xii.2013, P. Cerretti, J.O. Stireman & I. Winkler

[Thumb-Mt\_Moffatt\_Rd.jpg] A white refrigerator marks the spot where we stopped briefly to check for tachinids. (Photo: J. O’Hara)

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1 pinned [10.xii]

1 pinned [10.xii]

1 pinned [11.xii]

1 pinned [12.xii]

7 pinned [13.xii]

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, barracks, 25°01.23'S 147°57.13'E, at light, 730m, 10–13.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Carn\_Barracks.jpg] We stayed at the well-equipped barracks during our five days at the Mt. Moffatt Section of the park, courtesy of Greg Keith, Ranger in Charge. (Photo: J. O’Hara)

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84 pinned

145 pinned, AU045-067

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, “Fly Hill”, summit, 24°58.36'S 147°59.63'E, 900m, 11.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Carn\_Fly\_Hill1.jpg] The pointed summit of Fly Hill, one kilometre away, can be glimpsed from a park road through the open eucalypt forest. (Photo: J. O’Hara)

[Thumb-Carn\_Fly\_Hill2.jpg] View westward from the small, sparsely-vegetated summit of Fly Hill. Each scrub, cactus and tree was visited by a particular set of tachinid species. (Photo: J. O’Hara)

[Thumb-Carn\_Fly\_Hill3.jpg] Pierfilippo and Isaac examine a tachinid in Isaac’s net while John captures rutiliine tachinids on a tree trunk downslope. (Photo: J. O’Hara)

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10 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, trail to The Tombs, 25°05.2'S 147°52.0'E, 12.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

The sandstone bluff known as The Tombs was used by Aboriginal people as a burial site for their dead for thousands of years. The human remains have been plundered from the site, but the area continues to be sacred to the Aboriginal people. We followed a marked trail through the area but the day was overcast with periods of light rain and few tachinids were seen.

[Thumb-Carn\_The\_Tombs.jpg] Known as The Chimneys, the three sandstone pillars pictured here are a distinctive landmark along the trail to The Tombs. (Photo: J. O’Hara)

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[FIX PICS HERE]

1 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, 25°02.66'S 147°54.12'E, blacklight on road, 700m, 12.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Carn\_blacklight.jpg] Blacklighting along the park road was not very successful. Much better was collecting at the barrack’s outdoor lights at night. (Photo: J. O’Hara)

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9 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, hilltop west of road, 24°59.04'S 147°57.69'E, 940m, 13.xii.2013, J.E. O’Hara

[Thumb-Carn\_hill.jpg] Mixed vegetation on slope leading to hilltop. (Photo: J. O’Hara)

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161 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, “Fly Hill”, summit, 24°58.36'S 147°59.63'E, 900m, 13.xii.2013, J.E. O’Hara

[Thumb-Carn\_Fly\_Hill4.jpg] View southward from summit. (Photo: J. O’Hara)

[Thumb-Carn\_Fly\_Hill5.jpg] Pinned tachinids and other insects caught by Jim on 13.xii.2013, mostly from the summit of Fly Hill. (Photo: J. O’Hara)

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3 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, route to “Fly Hill”, 24°58.04'S 147°59.60'E, 900m, 13.xii.2013, J.E. O’Hara

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1 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, Mount Moffatt, summit, 25°03.47'S 148°02.66'E, 1060m, 13.xii.2013, P. Cerretti, J.O. Stireman & I. Winkler

[Thumb-Carn\_Moffatt.jpg] Mt. Moffatt rises high above the surrounding eucalypt forest. (Photo: J. O’Hara, 2002)

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3 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, Top Shelter Shed, 24°54.57'S 148°02.55'E, 1220m, 14.xii.2013, P. Cerretti, J.E. O’Hara & I. Winkler

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9 pinned

Australia, Queensland, Carnarvon National Park, Mt. Moffatt Section, Mahogany Forest, 24°55.54'S 148°03.85'E, 1215m, 14.xii.2013, P. Cerretti, J.E. O’Hara & I. Winkler

[Thumb-Carn\_Mahogany.jpg] The Mahogany Forest is thickly carpeted with tall grasses. Sweeping for flies was particularly rewarding. (Photo: J. O’Hara)

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11 pinned

Australia, Queensland, Carnarvon National Park, Carnarvon Gorge trail, 25°02.7'S 148°12.2'E, 470m, 15.xii.2013, P. Cerretti, J.E. O’Hara, J.O. Stireman & I. Winkler

[Thumb-Carn\_Gorge1.jpg] Carnarvon Gorge fan palms (*Livistona nitida*) line parts of the trail through the Gorge. (Photo: J. O’Hara)

[Thumb-Carn\_Gorge2.jpg] Two tachinids rest on the underside of a rock surface. The long-legged one on the right is *Senostoma* sp. (Dexiini). The dark-winged one on the left eluded capture and was not identified. (Photo: J. O’Hara)

[Thumb-Carn\_Gorge3.jpg] A side canyon leads to the sheltered and scenic Moss Garden. (Photo: J. O’Hara)

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1 pinned

Australia, Queensland, Tin Can Bay, motel, 25°55.53'S 153°00.58'E, at light, J.O. Stireman & I. Winkler

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7 pinned, AUS136

Australia, Queensland, Great Sandy National Park, Carlo Sandblow, 25°54.84'S 153°05.91'E, 17.xii.2013, J.O. Stireman & I. Winkler

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26 pinned, AUS135, 137

Australia, Queensland, Great Sandy National Park, Bymien Picnic Area, 25°57.25'S 153°06.27'E, 17.xii.2013, J.O. Stireman & I. Winkler

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59 pinned, AUS138, 147-154, 158, 162-163

Australia, Queensland, Tewantin National Park, Mt. Tinbeerwah, 26°23.41'S 152°58.53'E, 18.xii.2013, J.O. Stireman & I. Winkler

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3 pinned, pan traps

Australia, Queensland, Conondale National Park, Booloumba Creek, campground, 26°38.37'S 152°38.78'E, 18–19.xii.2013, J.O. Stireman & I. Winkler

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4 pinned, caddisfly vials

Australia, Queensland, Conondale National Park, Booloumba Creek, campground, 26°38.37'S 152°38.78'E, at light, 18.xii.2013, J.O. Stireman & I. Winkler

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102 pinned, AUS139-146, 155-157, 159-161

Australia, Queensland, Conondale National Park, Mt. Allan, 26°38.39'S 152°38.07'E, 19.xii.2013, J.O. Stireman & I. Winkler