Supplemental content for:

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Material examined

Iravadia goliath (Laseron, 1956)

Other material (wet). Queensland, coll. R. Golding and S. A. Clark, Sep.-Oct. 2011: boat ramp opposite Cobar Street, Lota, Brisbane, 27°28'27"S, 153°11'35"E, on muddy area in front of mangroves with small area of seagrass (AMS C.470977, 14); Nudgee Beach, Brisbane, 27°20'39"S, 153°05'58"E, in pool in upper mangroves near road, below stormwater outlet (AMS C.470970, >20); Ningi Creek, 27°03'18"S, 153°04'25"E, on damp litter in stormwater drainage gutter (AMS C.470963, 6); Crab Creek, Tin Can Bay, 25°55'60"S, 153°00'15"E, in leaf litter (AMS C.470998, 2; C.472148, 12; C.470952, >20); estuary of Snapper Creek, 25°54'28"S, 153°00'06"E, in muddy pools among mangroves (AMS C.472152, 17); River Heads, Hervey Bay, 25°24'04"S, 152°54'55"E, in mud and leaf litter (AMS C.470845, 16); estuary of Burrum River, Burrum Heads, 25°11'10"S, 152°36'04"E, in small pools among mangroves (AMS C.472156, 15); Turkey Beach, 24°04'31"S, 151°38'58"E, in pools with leaf litter and under logs (AMS C.470941, >20; C.470946, 12); W bank of Wild Cattle Creek, Tannum Sands, 23°57'32"S, 151°22'60"E, in pools in mangroves with leaf litter and roots (AMS C.470936, >20); Freshwater Point, 21°25'20"S, 149°19'27"E, in pools in mangrove forest with leaf litter (AMS C.470923, 4); Sarina Beach, 21°23'30"S, 149°18'42"E, in pools in mangrove forest on leaf litter and roots (AMS C.470932, >20); Campwin Beach, 21°22'28"S, 149°18'44"E, on rocks and in small pools in front of mangroves (AMS C.470927, >20); mangroves in front of Caneland shopping centre car park, Mackay, 21°08'08"S, 149°10'38"E, on leaf litter in a small gutter through mangroves (AMS C.470920, 1); S side of headland, Dingo Beach, 20°04'51"S, 148°29'33"E, in pools on leaf litter and sticks (AMS C.470916, >20); unnamed creek S of Doughtys Creek, Bowen, 20°02'13"S, 148°13'42"E, in leaf litter beside broad, sandy-bottomed creek (AMS C.470901, 8); Doughtys Creek, Bowen, 20°01'16"S, 148°14'24"E, on rocky banks of estuary through mangroves (AMS C.470995, 9); Magazine Creek, Bowen, 20°00'54"S, 148°15'41"E, in pools on roots and leaf litter (AMS C.470908, 6); Duck Creek, Cockle Bay, Magnetic Island, 19°08'41"S, 146°47'50"E, in pools in mangrove behind dune, on leaf litter and sticks (AMS C.470860, >20); Finch Bay, Cooktown, 15°28'24"S, 145°15'46"E, in pools in mangroves and on leaves and sticks in sandy-bottomed rivulet leading to creek (AMS C.470872, >20);

estuary of Endeavour River, Cooktown, 15°28'23"S, 145°14'34"E, in pools among mangroves (AMS C.470870, 17).

Other material (dry). Queensland: Moreton Bay region, 27°S, 153°E (AMS C.422086, 16; C.412319, 6; C.412320, 6; C.412318, 3); Hervey Bay region, 25°18'S, 152°46'E (AMS C.412321, 2; C.412322, 6; C.412323, 1; C.412324, 1; C.412325, 1); Gladstone region, 23°55'S, 151°23'E (AMS C.061465, 5; C.412329, 3; C.042593, 3; C.412326, 4; C.412327, 4; C.412328, 1); Keppel Bay, 23°17'00"S, 150°50'00"E (AMS C.412330, 2); Plum Tree, Thirsty Sound, 22°08'08"S, 150°01'51"E (AMS C.459074, >20); Sarina Beach, 21°24'00"S, 149°19'00"E (AMS C.412333, 1); Proserpine River estuary, at Wilson, 20°25'53"S, 148°41'28"E (AMS C.412337, 12); Edgecumbe Bay, 20°08'00"S, 148°23'00"E (AMS C.412342, 4; C.412343, 1); Cape Gloucester, S end Dingo Beach, 20°05'00"S, 148°30'30"E (AMS C.412334, 1); Bowen region, 20°03'S, 148°15'E (AMS C.412340, 17; C.412341, 1; C.412346, 2; C.412339, 7); Palm Islands, 18°40'00"S, 146°33'00"E (AMS C.009417, 1); Cairns region, 16°53'00"S, 145°48'00"E (AMS C.412351, 8; C.412332, 3; C.412345, 1; C.412344, 1); Port Douglas region, 16°29'S, 145°28'E (AMS C.412349, 1; C.412347, 1; C.412348, 1; C.412350, 2).

***Iravadia quadrina* (Laseron, 1956)**

Other material (wet). Queensland, coll. R. Golding and S. A. Clark, Sep.-Oct. 2011: N of Flying Fox Island, Mapoon, 11°58'57"S, 141°53'19"E, in small creek through mangroves and in pools with leaf litter (AMS C.470891, >20); inlet on W side of bridge, N bank of Mission River, Weipa, 12°35'33"S, 141°53'38"E, in shallow pools in front of mangroves (AMS C.470888, >20); W side of Wallaby Island, Weipa, 12°38'16"S, 141°50'26"E, in pools with leaf litter and algae (AMS C.470884, 7); shore E of airstrip, Karumba Point, 17°26'27"S, 140°50'29"E, in pools on upper shore and around base of mangrove trees in leaf litter (AMS C.470896, >20). Northern Territory: East Woody Beach, Nhulunbuy, Gove Peninsula, Arnhem Land, 12°09'53"S, 136°45'17"E, coll. W. F. and J. M. Ponder, and V. Kessner, 6 Jul. 2007, in wet litter and pools, mangroves (AMS C.175290, >20); near mouth of Mule Creek, Bing Bong Station, W Gulf of Carpentaria, 15°38'49"S, 136°25'30"E, coll. W. F. Ponder, G. Wilson and V. Kessner, 23 Aug. 1994, in lower part of tributary on weeds and leaves in small channel (AMS C.403619, >20); Nightcliff, Darwin, 12°23'00"S, 130°50'00"E, coll. W. F. Ponder, 15 Jul. 1988, on stones in front half of mangroves (AMS C.175284, >20); Ludmilla Creek, East Point, Darwin, 12°25'00"S, 130°50'00"E, coll. W. F. Ponder, 14 Jun. 1976, on deep muddy sand, upper edge of mangroves (AMS C.412356, >20); Dinah Beach, Darwin, 12°27'00"S, 130°52'00"E, coll. W. F. Ponder, 14 Jun. 1976, under wood in small pool, HTL (AMS C.175287, >20); Elizabeth River, Darwin, 12°32'17"S, 130°58'23"E, coll. W. F.

Ponder, 14 Jul. 1988, on leaves etc. in small drainage ditch, mid zone of mangroves (AMS C.175289, 10); Rapid Creek, Darwin, 12°23'03"S, 130°51'57"E, coll. F. Criscione, 14 Aug. 2010, on dead mangrove leaves in pools, LT (AMS C.475886, 5); behind old airstrip, Bathurst Island, 11°46'28"S, 130°37'06"E, coll. P. H. Colman, 20 Mar. 1980, in mangroves, HTL (AMS C.175286, 6). Western Australia: south of Streeters Jetty, Dampier Creek, Broome, 17°57'15"S, 122°14'45"E, coll. R. Golding and M. Hill, 26-29 Jun. 2012, on leaf litter in pools around mangrove prop roots (AMS C.475997, 5; AMS C.476001, >20).

Other material (dry). Queensland: Karumba, 17°29'00"S, 140°50'00"E (AMS C.412355, 2); Sweers Island, Wellesley Group, Gulf of Carpentaria, 17°05'00"S, 139°38'00"E (AMS C.015537, 8). Northern Territory: Darwin region, 12°28'00"S, 130°50'00"E (AMS C.412358, >20; C.412336, >20; C.412356, 9; C.412357, 1); Buchanan Island, 11°49'00"S, 130°39'00"E (AMS C.412354, 1).

***Iravadia pilbara* n. sp.**

Other material (wet). Western Australia, coll. R. Golding and M. Hill, Jun.-Jul. 2012: Four Mile Creek, Port Hedland, 20°19'19"S, 118°38'44"E, on leaf litter in pools at back of dense mangrove forest beside road (AMS C.476006, 14; C.476014, 6); Nickol Bay, Karratha, 20°43'24"S, 116°52'16"E, on leaf litter (AMS C.476020, 3).

Other material (dry). Gidley Island, Dampier Archipelago, Western Australia, 20°27'00"S, 116°49'00"E (AMS C.412353, 4).

***Wakauria fukudai* n. sp.**

Other material. Queensland: estuary of Crab Creek, Tin Can Bay, 25°55'60"S, 153°0'15"E, coll. R. Golding & S.A. Clark, 18 Sep. 2011, on muddy bank beside sandy-bottomed creek (AMS C.471000, 1); mouth of Crab Creek, Tin Can Bay, 25°55'52"S, 153°0'50"E, coll. R. Golding and S.A. Clark, 11 Oct. 2011, on sandy mud and damp mangrove leaf litter in upper mangroves (AMS C.470953, 1); W bank of Wild Cattle Creek, Tannum Sands, 23°57'32"S, 151°22'60"E, coll. R. Golding and S.A. Clark, 10 Oct. 2011, on leaf litter in pools among mangroves (AMS C.470938, 1); Cockle Bay, Magnetic Island, off Townsville, 19°10'24"S, 146°49'40"E, coll. W.F. Ponder & I. Loch, 21 Sep. 1980, under wood in sandy area in clearing in mid mangroves (AMS C.175317, 1); N side Ross River, 1km from mouth, Townsville, 19°17'00"S, 146°48'53"E, coll. I. Loch, P.H. Colman and R. Creese, 31 May 1977, on ground and logs in mangroves (AMS C.175318, 1); Finch Bay, Cooktown, 15°28'24"S, 145°15'46"E, coll. R. Golding & S.A. Clark, 26 Sep. 2011, on mangrove leaf litter in sandy-bottomed rivulet leading to creek (AMS C.470873, 1).

***Pseudomerelina cf. mahimensis* (Melvill, 1893)**

Other material (wet). Queensland, coll. R. Golding and S. A. Clark, Sep.-Oct. 2011: River Heads, Hervey Bay, 25°24'05"S, 152°54'57"E, on rocks on soft mud in front of mangroves (AMS C.470841, 5; AMS C.470844, 1); Sarina Beach, 21°23'30"S, 149°18'42"E, in pools in mangrove forest on leaf litter and roots (AMS C.470931, 3); Campwin Beach, 21°22'28"S, 149°18'44"E, on rocks and in small pools in front of mangroves (AMS C.470926, >20); mangroves in front of Caneland shopping centre car park, Mackay, 21°08'08"S, 149°10'38"E, on leaf litter in small gutter (AMS C.470919, 2); unnamed creek S of Doughtys Creek, 20°02'13"S, 148°13'42"E, on algae and leaf litter beside broad, sandy-bottomed creek through mangroves (AMS C.470900, >20); estuary of Doughtys Creek, Bowen, 20°01'16"S, 148°14'24"E, on rocky banks of estuary through mangroves (AMS C.470850, >20); Rowes Beach, Townsville, 19°14'32"S, 146°47'48"E, under rocks and in pools with filamentous roots and some leaf litter (AMS C.470857, >20); Three Mile Creek, Pallarenda, Townsville, 19°12'37"S, 146°46'26"E, on surface of extremely thick, claggy mud in dense mangrove forest (AMS C.470855, 9); tide pool, W side of Wallaby Island, 12°38'22"S, 141°50'33"E, on algae and rocks (AMS C.470875, >20); mudflat E of Norman River Mouth, Karumba Point, 17°27'13"S, 140°49'47"E, on seagrass on edge of mudflat (AMS C.470898, 11). Ned Lee Creek, Magnetic Island, Queensland, 19°10'05"S, 146°48'47"E, coll. W. F. Ponder, 22 Sep. 1980, on wood near front of mangroves (AMS C.175296, >20); E end of Saibai Village, Saibai Island, Torres Strait, Queensland, 9°22'00"S, 142°36'00"E, in muddy front mangroves (AMS C.412385, 10; C.412378, >20). Northern Territory: below Crocodile Research Station, Maningrida, Arnhem Land, 12°03'00"S, 134°13'00"E, coll. W. F. Ponder, 5-7 Jun. 1976, on *Sargassum*, rocky reef (AMS C.175297, >20; C.175298, >20); Nightcliff, Darwin, 12°23'00"S, 130°50'00"E, coll. W. F. Ponder, 15 Jul. 1988, on muddy sand in front of mangroves (AMS C.472366, >20). Western Australia, coll. R. Golding and M. Hill, Jun.-Jul. 2012: Four Mile Creek, Port Hedland, 20°19'16"S, 118°39'19"E, on leaf litter in creek flowing through patch of mangroves, among prop roots (AMS C.476008, 3); Nickol Bay, Karratha, 20°43'24"S, 116°52'16"E, on leaf litter and filamentous mangrove roots in pools (AMS C.476019, >20; 476026, 7).

Other material (dry). Queensland: Gladstone region, 23°51'00"S, 151°16'00"E (AMS C. 412377, 6; C.042595, 14); Cairns Harbour, 16°53'00"S, 145°48'00"E (AMS C.412379, 6); mouth of Norman River, Karumba, 17°27'41"S, 140°51'00"E (AMS C.412381, 5). Darwin region, Northern Territory, 12°28'00"S, 130°50'00"E (AMS C.412389, 7; C.412382, >20). Port Hedland region, Western Australia, 20°19'00"S, 118°36'00"E (AMS C.412384, 9; C. 412386, 12).

***Pellamora australis* (Hedley, 1901)**

Other material (wet). Queensland: near water treatment plant, Turkey Beach, 24°05'18"S, 151°38'51"E, coll. R. Golding and S. A. Clark, 10 Oct. 2011, in pools and under moist leaf litter (AMS C.470945, 3); Calliope River mouth, 23°50'30"S, 151°13'30"E, coll. P. Saenger, 1974-83 (AMS C.175299, 3); Sarina Beach, N end behind Coral Point, 21°22'30"S, 149°19'00"E, coll. I. Loch and P. H. Colman, 29 May 1977, in seepage in mangroves (AMS C.175300, 12); Dart Creek, off Connor Creek, Fitzroy River estuary, 23°42'00"S, 150°56'06"E, coll. W. F. Ponder, J. Burch and P. H. Colman, 6 May 1975, under stones in creek surrounded by short mangroves and salt marsh (AMS C.175301, 2); Proserpine River opposite Flying Fox Island, 20°29'00"S, 148°44'00"E, coll. W. F. Ponder, 1 May 1975, in mangroves (AMS C.175302, 2); Magazine Creek, Bowen, 2°00'54"S, 148°15'41"E, coll. R. Golding and S. A. Clark, 5 Oct. 2011, in pools on roots and leaf litter (AMS C.470907, 1); unnamed creek S of Doughtys Creek, 20°02'13"S, 148°13'42"E, coll. R. Golding and S. A. Clark, 5 Oct. 2011, on roots and algae on sides of broad, sandy-bottomed creek through mangroves (AMS C.470902, 1); Ned Lee Creek, Magnetic Island, 19°09'59"S, 146°49'05"E, coll. R. Golding and S. A. Clark, 24 Sep. 2011, in pools in middle mangroves on leaf litter, rocks and sticks (AMS C.470867, 1); Ned Lee Creek, Magnetic Island, 19°10'05"S, 146°48'47"E, coll. W. F. Ponder and I. Loch, 22 Sep. 1980, on mud and in pools in mangroves (AMS C.459117, >20); Duck Creek, Magnetic Island, 19°08'41"S, 146°47'50"E, coll. R. Golding and S. A. Clark, 24 Sep. 2011, on leaf litter and sticks (AMS C.470861, 2); Cockle Bay, Magnetic Island, 19°11'00"S, 146°49'00"E, coll. W. F. Ponder, G. Brodie, B. Scott and J. Leroi, 22 Feb. 1997, in mangroves alongside small creek (AMS C.175303, 3); Mt St John area, 19°15'28"S, 146°44'00"E, coll. W. F. Ponder and J. Leroi, 23 Feb. 1997, on mud against grass and weeds (AMS C.175306, >20); Oonoonba, Townsville, 19°17'02"S, 146°48'54"E, coll. M. Dougall, 30 Mar. 1961, removed from gut of Masked Plover, *Vanellus miles* (AMS C.175307, 2). Northern Territory: Nightcliff, Darwin, 12°23'00"S, 130°50'00"E, coll. W. F. Ponder, 15 Jul. 1988, on stones in front of mangroves (AMS C.175422, 1); Dinah Beach, Darwin, 12°27'00"S, 130°52'00"E, coll. W. F. Ponder, 12 Jun. 1976, under leaves and woods in small pools in mangroves (AMS C.175308, 3); Elizabeth River, Darwin, 12°32'17"S, 130°58'23"E, coll. W. F. Ponder, 14 Jul. 1988, on leaves etc. in small drainage ditch, mid zone of mangroves (AMS C.175423, 3); c. 5 km E of bridge of Channel Island, Middle Arm, Darwin, 12°31'00"S, 130°50'00"E, coll. W. F. Ponder, V. Kessner and H. Fukuda, 19 Mar. 2005 (AMS C.468642, 12); Rapid Creek, Darwin, 12°23'03"S, 130°51'57"E, coll. F. Criscione, 14 Aug. 2010, dead mangrove leaves in pools, LT (AMS C.475760, >20).

Other material (dry). Queensland: Gladstone region, 23°51'00"S, 151°16'00"E (AMS C. 042604, 2; C.412367, 1; C.412365, 1); Keppel Bay, 23°17'00"S, 150°50'00"E (AMS C.

412368, 1); Proserpine River estuary, at Wilson, 20°25'53"S, 148°41'28"E (AMS C.412371, 1); Bowen, 20°01'00"S, 148°15'00"E (AMS C.412372, 1). Northern Territory, Darwin region, 12°28'00"S, 130°50'00"E (AMS C.412375, 3; C.412376, 2; C.422085, 2).

***Fluviocingula resima* (Laseron, 1956)**

Other material. Queensland, Karumba: shore E of airstrip, 17°26'27"S, 140°50'29"E, coll. R. Golding and S. A. Clark, 2 Oct. 2011, in shallow, warm pools in deep, fine mud on upper shore behind mangroves (AMS C.470897, >20); 8 km from Norman River mouth, 17°30'00"S, 140°50'00"E, coll. I. Loch, 8 Dec. 1976, in pools on claypans behind mangroves (AMS C.175309, >20; C.175310, 4). Northern Territory: behind old airstrip, Bathurst Island, 11°46'28"S, 130°37'06"E, coll. P. H. Colman, 20 Mar. 1980, in mangroves, HTL (AMS C.175311, 2); Elizabeth River, Darwin, 12°32'17"S, 130°58'23"E, coll. W. F. Ponder, 14 Jul. 1988, on leaves etc. in small drainage ditch, middle zone of mangroves (AMS C.472362, 4); Dinah Beach, Darwin, 12°27'00"S, 130°52'00"E, coll. W. F. Ponder, 12 Jun. 1976, under leaves and wood in small pools in mangroves (AMS C.459114, 4); Ludmilla Creek, East Point, Darwin, 12°25'00"S, 130°50'00"E, coll. W. F. Ponder, 14 Jun. 1976, on deep muddy sand, upper edge of mangroves (AMS C.210810, >20); Nightcliff, Darwin, 12°23'00"S, 130°50'00"E, coll. W. F. Ponder, 15 Jul. 1988, shallow pools in front of mangroves (AMS C.175424, >20); Rapid Creek, Darwin, 12°23'03"S, 130°51'57"E, coll. F. Criscione, 14 Aug. 2010, on dead mangrove leaves in pools, LT (AMS C.475759, 3).

***Fluviocingula superficialis* n. sp.**

Other material. Western Australia: around jetty, Derby, 17°18'00"S, 123°36'00"E, coll. W. F. Ponder, 8-9 Jul. 1988, under wood, back mangroves (AMS C.175313, 3; C.175314, 15); W section, Sir Graham Moore Island, Eclipse Archipelago, N Kimberley, 13°52'35"S, 126°31'36"E, coll. V. Kessner, 4 Aug. 2007, in tidal creek with mangroves c. 0.3 km from beach, on mud and rocks (AMS C.475918, 6); Four Mile Creek, Port Hedland, 20°19'19"S, 118°38'44"E, coll. R. Golding and M. Hill, 2 Jul. 2012, on leaf litter from pools at back of dense mangrove forest beside road (AMS C.476005, 10); south of Streeters Jetty, Dampier Creek, Broome, 17°57'15"S, 122°14'45"E, coll. R. Golding and M. Hill, 26 Jun. 2012, on leaf litter in pools around mangrove prop roots, in back of tall mangrove forest (AMS C.475996, 1).

***Nozeba topaziaca* (Hedley, 1908)**

Other material (wet). Victoria: W side of Wilsons Promontory, 38°49'07"S, 146°10'00"E, coll. J. H. Waterhouse and S. A. Clark, 9 Dec. 1988, on *Zostera* (AMS C.175426, 1); Port

Phillip Bay, 38°07'00"S, 144°48'00"E, coll. Fisheries and Wildlife Dept., 1988 (AMS C.156452, 14). New South Wales: Maianbar, Port Hacking, 34°05'00"S, 151°07'47"E, coll. W. F. Ponder and J. Hall, 24 Nov. 1980, in *Zostera* on muddy side, LWS (AMS C.327118, 3); Woy Woy channel, 33°29'05"S, 151°19'47"E, coll. R. Golding and N. Wilson, 20 Feb. 2012, on *Zostera* (AMS C.475870, 1); Salamander Bay, Port Stephens, 33°29'02"S, 151°19'35"E, coll. R. Golding, 27 Aug. 2011, on *Zostera* (AMS C.472141, 1). Queensland: estuary of Crab Creek, Tin Can Bay, 25°55'60"S, 153°00'15"E, coll. R. Golding and S. A. Clark, 18 Sep. 2011, on muddy bank beside sandy-bottomed creek (AMS C.470999, 3); Gatakers Bay, Point Vernon, Hervey Bay, 25°15'00"S, 152°49'00"E, coll. I. Loch, 23 Oct. 1976, on dead, green, filamentous algal mat in clearing in beach mangroves (AMS C.175315, 2); W bank of Wild Cattle Creek, Tannum Sands, 23°57'32"S, 151°22'60"E, coll. R. Golding and S. A. Clark, 10 Oct. 2011, in pools in mangroves on leaf litter and roots (AMS C.470937, 1); and many other lots in the Australian Museum collections.

Other material (dry). Tasmania: W of Roberts Point, D'Entrecasteaux Channel, 43°08'35"S, 147°15'19"E (AMS C.412011, 7); E of Grassy, King Island, Bass Strait, 40°11'00"S, 144°39'00"E (AMS C.412012, 1). Victoria: Port Albert, 38°40'00"S, 146°40'00"E (AMS C.028534, 18; C.066105, 17; C.412014, 10); N of Churchill Island, Western Port, 38°27'08"S, 145°20'53"E (AMS C.412013, 2). New South Wales and Queensland: more than 200 lots from southern New South Wales to Gladstone region.