Supplemental content for:

Rosemary E. Golding (2014): Molecular phylogeny and systematics of Australian and East Timorese Stenothyridae (Caenogastropoda: Truncatelloidea), Molluscan Research, DOI: 10.1080/13235818.2014.888969

Material examined

Stenothyra australis Hedley, 1901

Other material (wet). Queensland, coll. R. Golding and S. A. Clark, Sep.–Oct. 2011: Nudgee Beach, 27°20'39"S 153°05'58"E, in pool in upper mangroves near road, below stormwater outlet (AMS C.470968, >20); Ningi Creek, 27°3'18"S 153°4'24"E, on leaf litter in stormwater drainage gutter leading to mangrove forest (AMS C.470962, >20); estuary of Snapper Creek, Tin Can Bay, 25°54'28"S 153°00'06"E, among mangroves, in muddy pools (AMS C.472151, 1); Toolara Street, Tin Can Bay, 25°55'20"S 153°00'30"E, in pool of brackish water near stormwater outlet, damp leaf litter (AMS C.470957, 20); River Heads, Hervey Bay, 25°24'04"S 152°54'55"E, on muddy path through mangrove forest (AMS C.470843, 18); near water treatment plant, Turkey Beach, 24°05'18"S 151°38'51"E, in moist leaf litter in small pools among sparse, small-leaved mangroves (AMS C.470943, >20); estuary of Doughtys Creek, Bowen, 20°01'16"S 148°14'24"E, on rocky banks of estuary through mangroves, and small puddles among mangroves (AMS C.470849, 4); Magazine Creek, Bowen, 20°00'54"S 148°15'41"E, in pools containing roots and leaf litter (AMS C.470905, >20); Duck Creek, Magnetic Island, 19°08'41"S 146°47'50"E, on leaf litter and sticks in pools behind dunes (AMS C.470859, 17); creek opposite Bulgor Bay water tank, Magnetic Island, 19°09'41"S 146°48'43"E, under wood and leaf litter in slow-flowing creek in upper mangroves (AMS C.470862, >20); Ned Lee Creek, Magnetic Island, 19°09'59"S 146°49'05"E, in pools in middle mangroves (AMS C.470866, 27); shore E of airstrip, Karumba Point, 17°26'27"S 140°50'29"E, on leaf litter in pools of deep, fine mud around base of mangrove trees (AMS C.470895, >20). Northern Territory: Sandy Point, Castlereagh Bay, N of Ramingining, Arnhem Land, 12°10'28"S 134°59'01"E, coll. W. F. & J. M. Ponder, & V. Kessner, 29 Jun. 2007, in mangroves (AMS C.175260, >20); Rapid Creek, Darwin, 12°23'03"S 130°51'57"E, coll. F. Criscione, 14 Aug. 2010, on mangrove leaf litter in pools (AMS C.475889, 5). Western Australia, coll. R. Golding and M. Hill, Jun.–Jul. 2012: Streeters Jetty, Dampier Creek, Broome, 17°57'12"S 122°14'46"E, on leaf litter in wheel ruts, upper mangroves (AMS C.475968, 8); south of Streeters Jetty, Dampier Creek, Broome, 17°57'15"S 122°14'45"E, on leaf litter in pools around mangrove prop roots (AMS C.475995, 18; C.475999, 19); Gray Street, behind car park, Broome, 17°57'02"S 122°14'36"E, on leaves in small rivulets in low,

sparse mangroves (AMS C.470988, >20; C.475994, >20); east side of Dampier Creek, Broome, 17°57'33"S 122°15'53"E, in pools around mangroves roots with leaf litter and filamentous roots (AMS C.475992, 4); 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.476004, 19; C.476012, >20); Redbank Road, Port Hedland, 20°20'45"S 118°36'35"E, on surface of soft mud (AMS C.476009, 2); Nickol Bay, Karratha, 20°43'24"S 116°52'16"E, on leaf litter and filamentous mangrove roots in pools between coastal mangroves (AMS C.476018, 1; C.476025, 1); Cowrie Cove, Burrup Peninsula, 20°36'26"S 116°48'24"E, on sticks and leaves at junction of tidal mangroves and freshwater creek (AMS C.476021, >20).

Other material (dry). Clarence River mouth, New South Wales, 29°26'00"S, 153°20'00"E (AMS C.220189, 1). Queensland: Deception Bay, Moreton Bay, 27°09'00"S, 153°08'00"E (AMS C.220190, 11); Peel Island, Moreton Bay, 27°30'00"S, 153°21'00"E (AMS C.220187, 1); Nudgee, 27°21'00"S, 153°06'00"E (AMS C.220191, 9); Facing Island, Port Curtis, 23°49'00"S, 151°22'00"E (AMS C.220192, 2; C.220193, 1); Dart Creek, off Connor Creek, Fitzroy River estuary, 23°42'00"S, 150°56'06"E (AMS C.434340, 4); Edgumbe Bay, S of Bowen, 20°08'00"S, 148°23'00"E (AMS C.220194, 1); Bowen, 20°01'00"S, 148°15'00"E (AMS C.220196, 1; C.220197, 1; C.220199, 2); Three Mile Creek, Pallarenda, Townsville, 19°12'36"S, 146°46'30"E (AMS C.331858, >20); Ned Lee Creek, Magnetic Island, 19°10'05"S, 146°48'47"E (AMS C.434349, 6); N end of airstrip, Horn Island, Torres Strait, 10°35'36"S, 142°14'35"E (AMS C.434346, 2); 8 km from Norman River mouth, Karumba, 17°30'00"S, 140°50'00"E (AMS C.220206, 1; C.434334, >20; C.434368, >20); Disaster Inlet, Gulf of Carpentaria, 17°45'00"S, 139°50'00"E (AMS C.220205, 1); Allen Island, South Wellesley Islands, Gulf of Carpentaria, 17°02'00"S, 139°14'00"E (AMS C.015835, 1). Northern Territory: Darwin, 12°28'00"S, 130°50'00"E (AMS C.220207, 5; C.220248, 2; C.434311, 4; C.220246, 1; C.434317, 3; C.220245, 6; C.220213, 2); Shoal Bay, 12°15'30"S, 131°01'00"E (AMS C.434325, >20); Cape Gambier, Melville Island, 11°55'00"S, 130°58'00"E (AMS C.220215, 5); Buchanan Island, 11°49'00"S, 130°39'00"E (AMS C.220244, >20). Port Hedland, Western Australia, 20°18'00"S, 118°35'00"E (AMS C.220257, 1).

***Stenothyra gelasinosa gelasinosa* n. subsp.**

Other material (wet). New South Wales, channel at Woy Woy, 33°29'10"S 151°19'41"E, on *Zostera*: coll. W. F. Ponder and H. Fukuda, 10 Mar. 2004 (AMS C.433828, 4); coll. R. Golding and N. Wilson, 20 Feb. 2012 (AMS C.475869, 4). Queensland, coll. R. Golding and S. A. Clark, Sep.-Oct. 2011: Nudgee Beach, Brisbane, 27°20'39"S 153°05'58"E, in pool in upper mangroves near road, below stormwater outlet (AMS C.470969, >20); boat ramp

opposite Cobar Street, Lota, Brisbane, 27°28'27"S 153°11'35"E, on muddy area in front of mangroves with small patch of seagrass (AMS C.470976, 10); Ningi Creek, 27°03'18"S 153°04'25"E, on leaf litter in stormwater drainage gutter leading to mangrove forest (AMS C.470961, >20); estuary of Snapper Creek, Tin Can Bay, 25°54'28"S 153°00'06"E, among mangroves, in muddy pools (AMS C.472150, >20); mouth of Crab Creek, Tin Can Bay, 25°55'52"S 153°00'50"E, on sandy mud in upper mangroves with damp leaf litter (AMS C.470950, 20); Toolara Street, Tin Can Bay, 25°55'20"S 153°00'30"E, in pool of brackish water near stormwater outlet and on damp leaf litter (AMS C.470958, 3); estuary of Burrum River, Burrum Heads, 25°11'10"S 152°36'04"E, in small pools in mangroves (AMS C.472155, 3); River Heads, Hervey Bay, 25°24'04"S 152°54'55"E, along muddy path through mangroves (AMS C.470842, 19); 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.470935, 3); near water treatment plant, Turkey Beach, Queensland, 24°05'18"S 151°38'51"E, in small pools and moist leaf litter on surface of mud (AMS C.470942, >20); Freshwater Point, 21°25'20"S 149°19'27"E, on sand flat with seagrass and in pools in mangrove forest with leaf litter (AMS C.470922, >20); Sarina Beach, 21°23'30"S 149°18'42"E, in pools in mangrove forest with leaf litter and roots (AMS C.470930, >20); Campwin Beach, 21°22'28"S 149°18'44"E, on rocky mudflat with small pools in front of mangroves (AMS C.470925, 2); 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 (AMS C.470918, 1); S side of headland, Dingo Beach, 20°04'51"S 148°29'33"E, in pools with leaf litter and sticks (AMS C.470915, >20); unnamed creek S of Doughtys Creek, Bowen, 20°02'13"S 148°13'42"E, on roots, algae and leaf litter beside sandy-bottomed creek through mangroves (AMS C.470899, >20); estuary of Doughtys Creek, Bowen, 20°01'16"S 148°14'24"E, in small puddles among mangroves (AMS C.470848, >20); Magazine Creek, Bowen, 20°00'54"S 148°15'41"E, in pools on roots and leaf litter (AMS C.470906, >20); Three Mile Creek, Pallarenda, Townsville, 19°12'37"S 146°46'26"E, on extremely thick, claggy mud in dense mangrove forest (AMS C.470854, 8); Rowes Beach, Townsville, 19°14'32"S 146°47'48"E, in pools with filamentous roots and some leaf litter (AMS C.470856, 13); Ned Lee Creek, Magnetic Island, 19°09'59"S 146°49'05"E, in pools in middle mangroves with leaf litter, rocks and sticks (AMS C.470865, >20); Duck Creek, Magnetic Island, 19°08'41"S 146°47'50"E, pools in mangrove behind dune (AMS C.470858, >20); creek opposite Bulgor Bay water tank, Cockle Bay, Magnetic Island, 19°09'41"S 146°48'43"E, under wood and leaf litter in slow-flowing creek in upper mangroves (AMS C.470863, >20); estuary of Endeavour River, Cooktown, 15°28'23"S 145°14'34"E, on leaf litter and rocks in pools among mangroves (AMS C.470869, >20); Finch Bay, Cooktown, 15°28'24"S 145°15'46"E, on leaves and sticks in sandy-bottomed rivulet leading to creek (AMS C.470871, 16).

Other material (dry). Queensland: Lota Esplanade, Moreton Bay, 27°28'00"S, 153°11'00"E (AMS C.138065, 1); Peel Island, Moreton Bay, 27°30'00"S, 153°21'00" E (AMS C.220188, 1); Ningi, Toorbul Point, 27°05'00"S, 153°08'00"E (AMS C.167444, 1); Bundaberg, 24°52'00"S, 152°21'00"E (AMS C.020811, 1); Cape Gloucester, S end of Dingo Beach, 20°05'00"S, 148°30'30"E (AMS C.434336, 15); Edgumbe Bay, S of Bowen, 20°08'00"S, 148°23'00"E (AMS C.220195, 2); Bowen, 20°01'00"S, 148°15'00"E (AMS C.220189, 3; C. 220200, 2; C.220201, 2); Three Mile Creek, Pallarenda, Townsville, 19°12'36"S, 146°46'30"E (AMS C.331874, >20); Ned Lee Creek, Magnetic Island, 19°10'05"S, 146°48'47"E (AMS C.434351, >20); Four Mile Reef, Port Douglas, 16°33'00"S, 145°29'00"E (AMS C.220202, 1).

***Stenothyra gelasinosa phriza* n. subsp.**

Other material (wet). Queensland, coll. R. Golding and S. A. Clark: N of Flying Fox Island, Mapoon, 11°58'57"S 141°53'19"E, pools with leaf litter (AMS C.470890, 5); beside bridge, inlet on N bank of Mission River, 12°35'33"S 141°53'38"E, in shallow pools in front of mangroves (AMS C.470887, 19); W side of Wallaby Island, Weipa, 12°38'22"S 141°50'33"E, small pools in front of mangroves with prop roots (AMS C.470874, 4). Northern Territory: 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, weeds and leaves in small channel (AMS C.434315, >20); 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 pools among lower mangroves (AMS C.175248, >20); 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.434390, 11); Nightcliff, Darwin, 12°23'00"S 130°50'00"E, coll. W. F. Ponder, 15 Jul. 1988, stones in front half of mangroves (AMS C.434305, 16); N side of 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.434311, >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.434317, 17); 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.475888, 2).

Other material (dry). Northern Territory: Bing Bong Station, W Gulf of Carpentaria, 15°37'35"S, 136°20'30"E (AMS C.220209, 2; C.220250, 7); Nhulunbuy, Arnhem Land, 12°11'22"S, 136°41'58"E (AMS C.220251, 2); Darwin, 12°28'00"S, 130°50'00"E (AMS C. 220208, 6; C.220210, 4; C.220211, 1; C.220212, 1; C.220214, 5; C.220247, 1; C.434305, 16); Cape Gambier, Melville Island, 11°55'00"S, 130°58'00"E (AMS C.220216, 2).

***Stenothyra gelasinosa apiosa* n. subsp.**

Other material (wet). Western Australia: Nickol Bay, Karratha, 20°43'24"S 116°52'16"E, coll. R. Golding and M. Hill, 4 Jul. 2012, on leaf litter and filamentous mangrove roots in pools between coastal mangroves (AMS C.476024, 2); Four Mile Creek, Port Hedland, 20°19'19"S 118°38'44"E, coll. R. Golding and M. Hill, 2-3 Jul. 2012, on leaf litter from pools at back of dense mangrove forest beside road (AMS C.476003, 2; AMS C.476011, 4).

Other material (dry). Six Mile Creek, Port Hedland, 20°19'00"S, 118°34'00"E (AMS C.220259, 1).

***Stenothyra paludicola paludicola* van Benthem Jutting, 1963**

Other material (wet). Queensland, Torres Strait: near old church, Saibai Village, Saibai Island, 9°22'00"S 142°36'00"E, coll. W. F. Ponder and I. Loch, 8 Jul. 1976, brackish swamp with outlet to beach (AMS C.434319, >20); S end of airstrip, Saibai Village, Saibai Island, 9°22'00"S 142°36'00"E, coll. W. F. Ponder and I. Loch, 8 Jul. 1976, slightly brackish pool beside mangroves, on reeds and floating on surface (AMS C.434321, >20); North West Creek, W side of Prince of Wales Island, 10°41'00"S 142°09'00"E, coll. W. F. Ponder, 2 Jul. 1976, on edges of small 'billabong' behind mangroves (AMS C.434332, >20); between Terry Beach and North West Creek, Prince of Wales Island, 10°41'00"S 142°09'00"E, coll. W. F. Ponder, behind lower edge of mangroves, under wood on muddy sand, in damp hollows (AMS C.434335, >20); N end of airstrip, Horn Island, 10°35'36"S 142°14'35"E, coll. W. F. Ponder, 9 Jul. 1976, in small pools at back edge of mangroves (AMS C.434346, 2).

Other material (dry). Utingu, Simpsons Bay, Cape York, Queensland, 10°46'30"S, 142°24'30"E (AMS C.220204, 6; C.034527, 1).

***Stenothyra paludicola topendensis* n. subsp.**

Other material (wet). Northern Territory: c. 3.8 km NE of Towns River crossing, Gulf of Carpentaria, 15°01'19"S 135°14'13"E, coll. V. Kessner, 7 Jul. 2006, on reeds and sandy mud in tidal river at the junction of a small stream with fresh water, (AMS C.220253, >20; C.220254, 2; C.220255, 1); 2.5 km NE of Towns River crossing, Gulf of Carpentaria, 15°01'42"S 135°13'50"E, coll. V. Kessner, 6 Jul. 2006, on sandy mud in shallow freshwater pools behind reeds (AMS C.466938, >20); 8 km NE of Towns River crossing, Gulf of Carpentaria, 14°59'49"S 135°16'16"E, coll. V. Kessner, 7 Jul. 2006, on mud in brackish tidal river (AMS C.175258, 13); E of Mataranka, Towns River, Gulf of Carpentaria, 14°42'56"S 134°30'26"E, coll. W. F. Ponder, G. Wilson and V. Kessner, 20 Aug. 1994 (AMS C.327889, 20); Limmen Bight River at road crossing, W Gulf of Carpentaria, 15°28'55"S 135°23'57"E,

coll. W. F. Ponder, G. Wilson and V. Kessner, 21 Aug. 1994, in brackish water (AMS C. 327881, 1); Towns River, Gulf of Carpentaria, 15°02'26"S 135°12'36"E, coll. V. Kessner, 17 Sep. 2011, in shallow water, sandy pools (AMS C.476753, >20); Cox River, W Gulf of Carpentaria, 15°19'28"S 135°20'37"E, coll. W. F. Ponder, G. Wilson and V. Kessner, 21 Aug. 1994 (AMS C.327885, 1; C.327891, 4); Policeman Crossing, Roper River Road, Numbulwar, Arnhem Land, 14°14'02"S 135°36'10"E, coll. W. F. and J. M. Ponder, and V. Kessner, 9 Jul. 2007, in sedges and dead leaves on edges of river (AMS C.175259, >20); small waterhole beside Roper River Road, W of Numbulwar, 14°14'18"S 135°36'00"E, coll. W. F. and J. M. Ponder, and V. Kessner, 9 Jul. 2007, in dead leaves and mud in shallow tidal water (AMS C. 175245, >20); South Alligator River floodplain, Arnhem Highway, Kakadu National Park, 12°39'49"S 132°29'28"E, coll. W. F. and J. M. Ponder, and V. Kessner, 19 Jun. 2007, in pools along shallow mangrove-lined creek line (AMS C.175250, 9); second billabong E from campsite, beside coast track, Cobourg Peninsula, 11°09'54"S 132°11'22"E, coll. W. F. and J. M. Ponder, and V. Kessner, 24 Jun. 2007 (AMS C.175251, >20); swampy lagoon next to campsite, Smith Point, Cobourg Peninsula, 11°07'47"S 132°10'25"E, coll. W. F. and J. M. Ponder, and V. Kessner, 24 Jun. 2007, on weed, algae and on bottom with dead vegetation (AMS C.175253, >20); large lagoon on coast track, S of airstrip, Smith Point, Cobourg Peninsula, 11°09'00"S 132°09'28"E, coll. W. F. and J. M. Ponder, and V. Kessner, 24 Jun 2007, on weeds and dead leaves at bottom (AMS C.175254, >20); small lagoon near Reef Point, Gumeragi Outstation, Smith Point, Cobourg Peninsula, 11°10'24"S 132°09'55"E, coll. W. F. and J. M. Ponder, and V. Kessner, 26 Jun. 2007, on mud, roots and dead leaves (AMS C.175257, >20); Banteng Plain, c. 3.2 km E of Smith Point, Cobourg Peninsula, 11°07'00"S 132°09'00"E, W. F. Ponder, J. B. Burch and D. Feughelman, 3 Jun. 1976, in small, shallow lagoon, recently exposed to saltwater (AMS C.434324, >20; C.220249, >20).