

## Key to the Geckos of South Australia



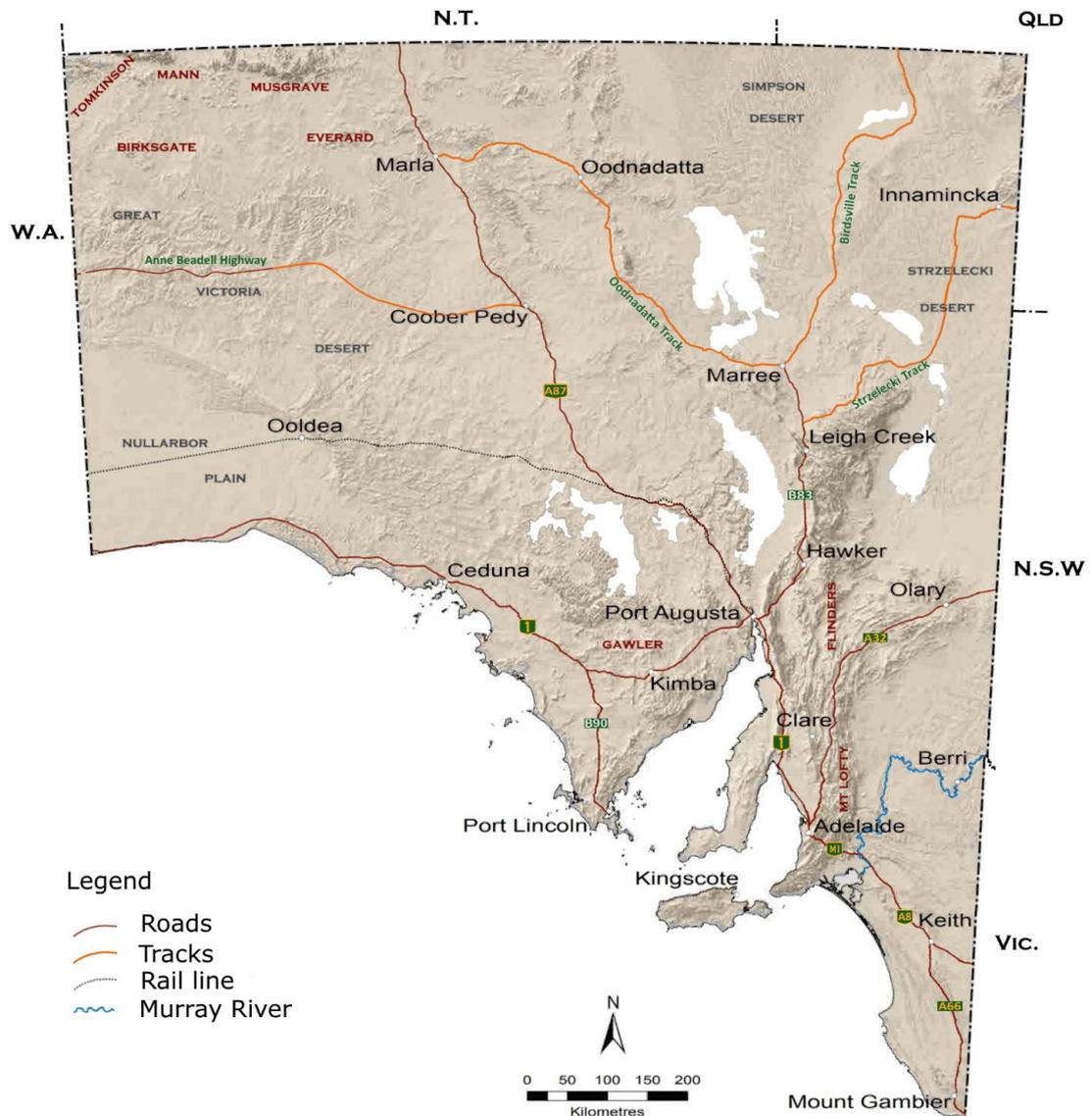
Robust Tree Gehyra, *Gehyra purpurascens*

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# The Geckos of South Australia

## Geographic Distribution



Map\* showing place names and geographical features as well as some main roads and major desert tracks, to assist with interpreting the following distribution maps.

Distribution maps show known and likely occurrence, given suitable habitat. In some cases South Australian populations belong to recognised subspecies, indicated in blue text.

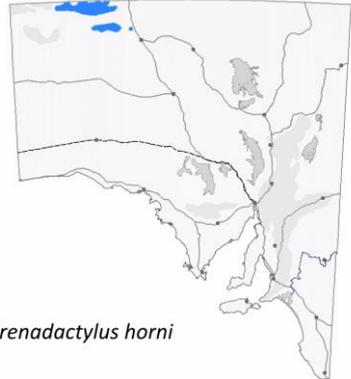
\*modified from original by Department of Environment & Water.



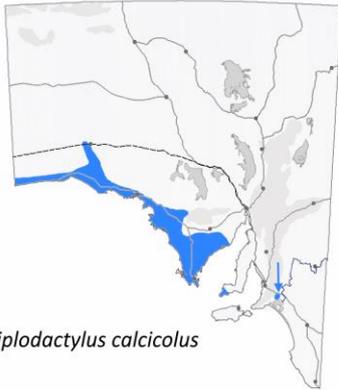
*Christinus alexanderi*



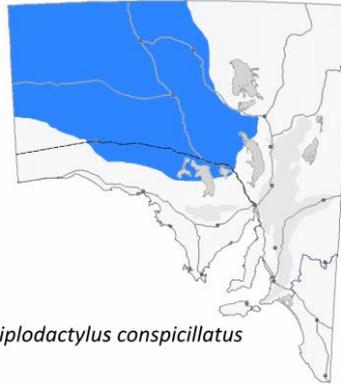
*Christinus marmoratus*



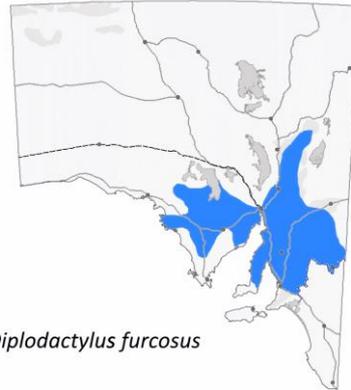
*Crenadactylus horni*



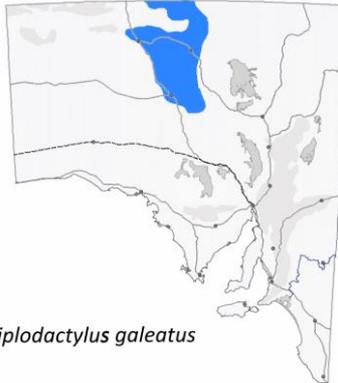
*Diplodactylus calcicolus*



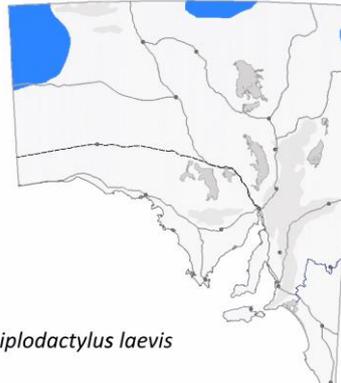
*Diplodactylus conspicillatus*



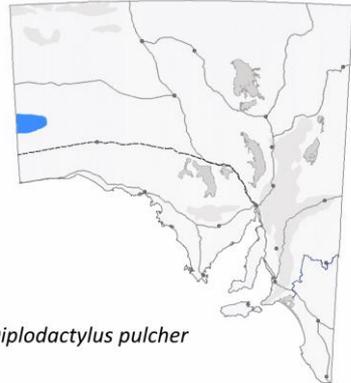
*Diplodactylus furcosus*



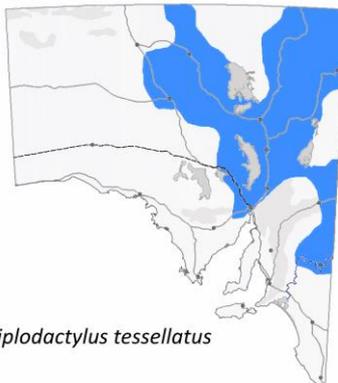
*Diplodactylus galeatus*



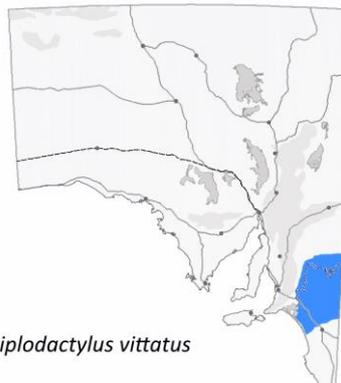
*Diplodactylus laevis*



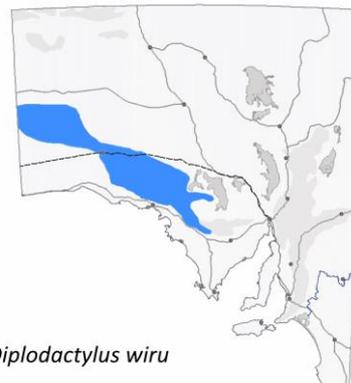
*Diplodactylus pulcher*



*Diplodactylus tessellatus*



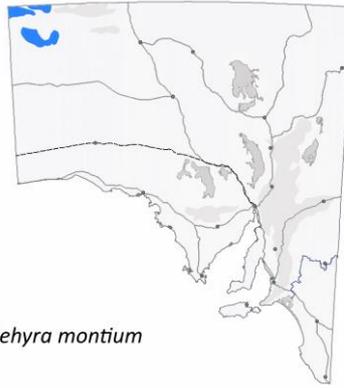
*Diplodactylus vittatus*



*Diplodactylus wiru*



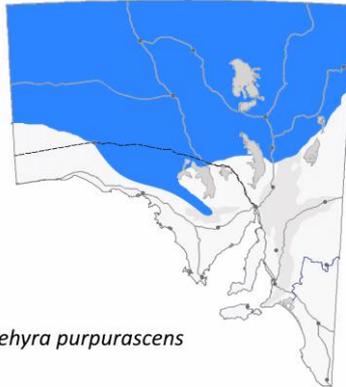
*Gehyra lazelli*



*Gehyra montium*



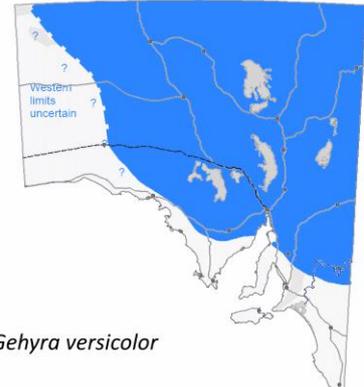
*Gehyra pulingka*



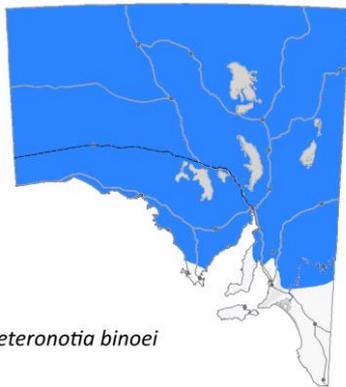
*Gehyra purpurascens*



*Gehyra variegata*



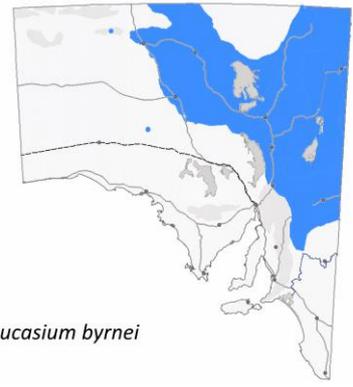
*Gehyra versicolor*



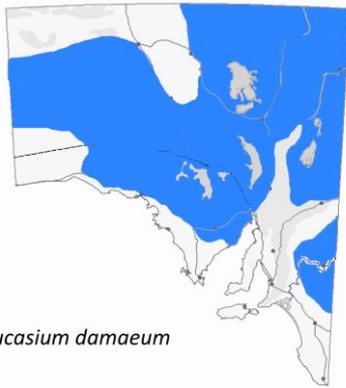
*Heteronotia binoei*



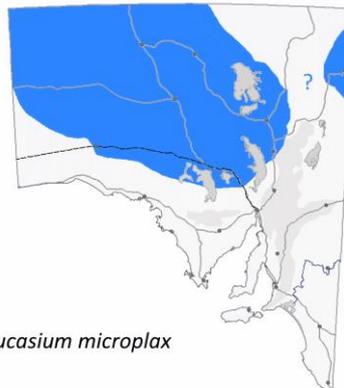
*Lucasium bungabinna*



*Lucasium byrnei*



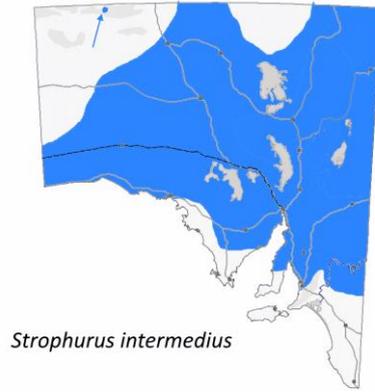
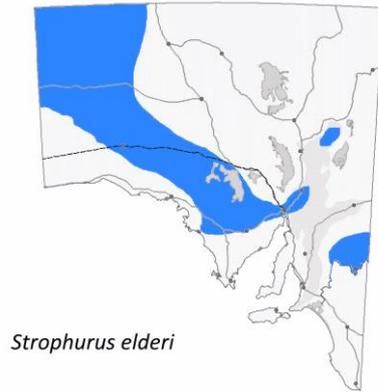
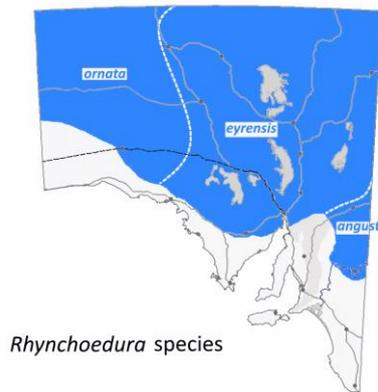
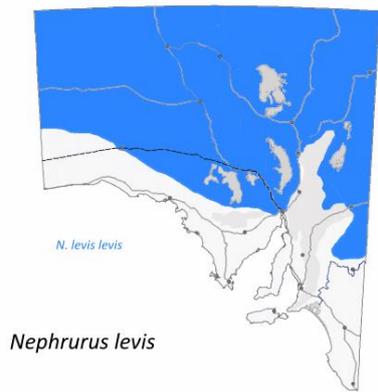
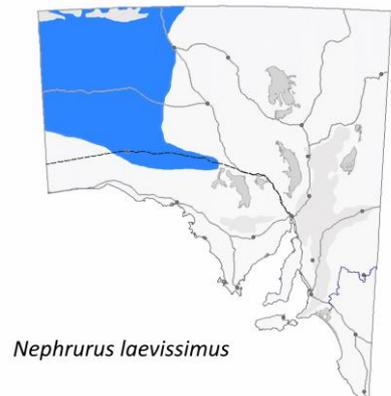
*Lucasium damaeum*

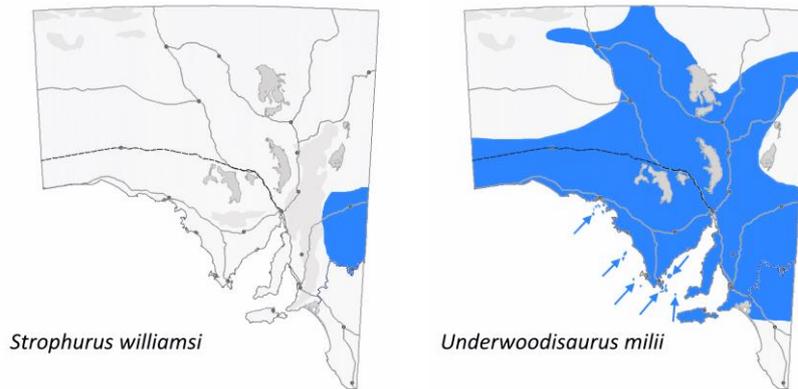


*Lucasium microplax*



*Lucasium steindachneri*





## Key to the Geckos of South Australia

### Families Carphodactylidae, Diplodactylidae and Gekkonidae

*Geckos in South Australia belong to three families, Gekkonidae (Christinus, Gehyra and Heteronotia), Diplodactylidae (Crenadactylus, Diplodactylus, Lucasium, Oedura, Rhynchoedura and Strophurus) and Carphodactylidae (Nephurus and Underwoodisaurus). However, all three differ mainly in internal features and it remains convenient to treat them as a single group when trying to identify them. All have characteristic skin with extremely small scales, and no Australian species has moveable eyelids; instead all have a clear scale covering their very large eyes which are adapted for night vision.*

*Geckos are famous for having sticky pads on their toes that, Velcro-like, help them climbing smooth surfaces. However not all geckos have toe pads, and the size and shape varies among different groups. Toe pad shape and size can help to identify species, but in the field, where it may not be possible to examine a lizard closely, species with small toe pads may not be easily distinguishable from those with none.*

*Sex of geckos is readily assessed. Males have a pair of bulges at the base of the tail (post-anal sacs); often these are adorned with clusters of spiny scales. Females lack such sacs and scales. Males of many species also have preanal pores (like those of dragon lizards), and females belonging to the Gekkonidae have a pair of swollen calcium-storing sacs on the neck.*

1. a. Tail comprising a broader more flattened section close to the base and a narrower terminal region, in most species (when original) terminated by a distinct knob (regrown tails flat 'doormats', without pattern or differentiated scales); legs relatively long and thin . . . . . **2**
- b. Tail not differentiated into a basal section and a terminal section; legs relatively short and stout . . . . . **3**



*Underwoodisaurus milii*      *Underwoodisaurus*      *Nephurus*      *Nephurus levis*

**1a.** Tail with expanded base; original tails with narrower tip that may end in a knob.



*Heteronotia binoei*      *Diplodactylus furcosus*      *Diplodactylus conspicillatus*

**1b.** Tail not subdivided; tapering, stout or swollen; regrown tails similar but unpatterned

- 2. a. Original tail with tapering tip (see fig. 2a) rather than a round knob; toes, when viewed laterally, have a downward kink at the mid-point ..... ***Underwoodisaurus (U. milii)***  
Common Barking Gecko
- b. Original tail ends in a distinct round knob (see fig. 2a); toes in most species are relatively short and stout (like a human hand), straight and un-kinked (somewhat kinked in *N. amyae*)..... ***Nephurus*** (pg. 24)



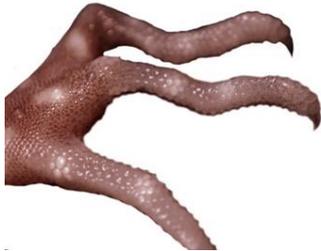
*Underwoodisaurus milii*

**2a.** Slender toes, tail tapers to a point



*Nephurus levis*

**2b.** Short toes, tail ends in a knob



*Underwoodisaurus milii*

**2a.** Toes long and thin with a downward kink



*Nephurus levis*

**2b.** Toes short and straight

3. a. Large (total length to 20 cm) climbing gecko strikingly banded in black, yellow and white when young, pattern increasingly broken by yellow and grey speckling in older animals. . . . .
- b. Not a banded pattern as above . . . . .

***Oedura cincta***  
Inland Velvet Gecko

**4**



*Oedura cincta* juvenile

**3a.** Strongly banded pattern in juveniles and young adults



*Oedura cincta* adult

**3a.** Pattern becomes obscured by scattered yellow and grey scales as lizard ages

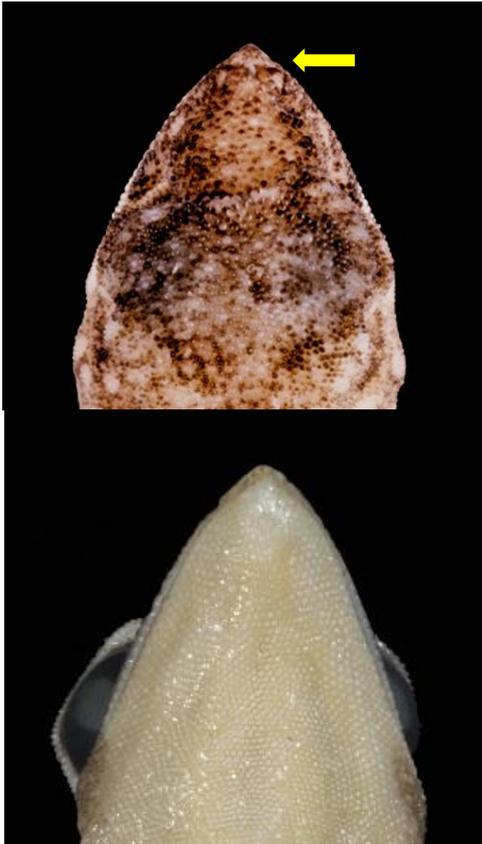
- 4. a. All scales on the upper surface of the body, tail and limbs are rough and conical; none are enlarged or spiny; toes, when viewed laterally, have a downward kink at the mid-point . . . ***Heteronotia binoei*** Bynoe's Gecko
- b. All, or most, scales on the upper surface of the body and tail smooth and flat, but some species with some enlarged warty or spiny scales; toes are straight and un-kinked. . . . . **5**



*Heteronotia binoei*

**4a.** Body covered above by rough, conical scales

- 5. a. Apex of snout and chin (rostral and mental shields) sharp-pointed, projecting . . . . . **[Rhynchoedura](#)** (pg. 27)
- b. Apex of snout and chin not sharp-pointed. . . . . **6**



*Rhynchoedura eyrensis*

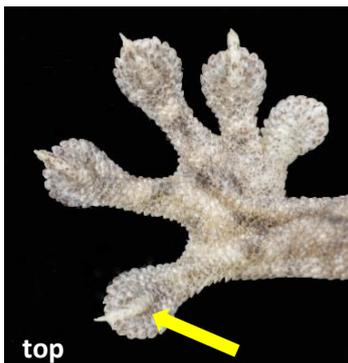
**5a.** Tip of snout and chin sharply pointed



*Lucasium damaeum*

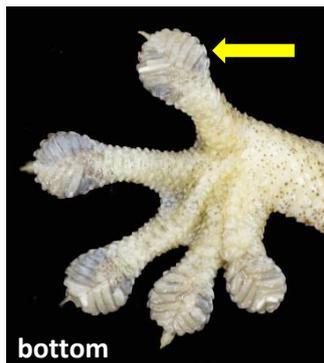
**5b.** Tip of snout and chin rounded

- 6. a. Toe pad very large, oval set back from the end of the toe; the end of the toe plus claw projects from the pad . . . . . [Gehyra](#) (pg. 19)
- b. Toe pad made up of a pair of plates situated at the tip of the toe, or no obvious toe pads . . . . . 7



*Gehyra lazelli*

**6.** Toe pads rounded with toe tip and claw emerging from top of pad



*Christinus marmoratus*

**6b.** Toe pads paired and placed at the tip of the toe

- 7. a. Body colour mainly grey; pattern, if present consists of a darker network, darker grey stripes or small white spots (juveniles of the marbled geckos, *Christinus*, may have a row of orange or yellow spots on the tail – see 9 below); tail not very short and flattened . . . . . 8
- b. Body colour grey, olive, brown, orange to reddish or pale sandy; back with strong patterns down the midline, often a pale stripe or zone down the middle of the back, less often a series of lighter or darker blotches; if dorsal pattern a darker network, then tail is very short and flattened (see key to *Diplodactylus*). . . . . 10



*Strophurus ciliaris*

7a. Plain grey gecko, spines on tail



*Diplodactylus vittatus*

7b. Gecko with strong back pattern



*Christinus marmoratus*

7a. Grey gecko with dark network pattern and tapering tail



*Diplodactylus conspicillatus*

7b. Gecko with short, round tail

- 8. a. Dark-striped, greyish geckos; very small (SVL < 40mm); tips of toes without claws, an empty notch separates the adhesive pads on the toe tips . . . . . ***Crenadactylus horni***  
Central Uplands  
Clawless Gecko
- b. Not patterned with dark and light grey stripes; tips of toes with small claws that retract into a sheath above and between the adhesive pads . . . . . 9



*Crenadactylus horni*

**8a.** Very small dark-striped grey gecko



*Crenadactylus horni*

**8a.** No claws between toe pads



*Strophurus intermedius*

**8b.** Small claws retract between toe pads

9. a. Upper surface of body heavily mottled with black and grey; younger animals often with a series of yellow to orange patches along the tail; scales on the upper surface of the toe pads distinctly larger than adjacent scales . . . . . [Christinus](#) (pg. 13)
- b. Colour and pattern not as above; scales on the upper surface of the toe pads no larger than adjacent scales; tail often with tubercles or spines; tail may exude a sticky dark defensive liquid when lizard is handled . . . . . [Strophurus](#) (pg. 28)



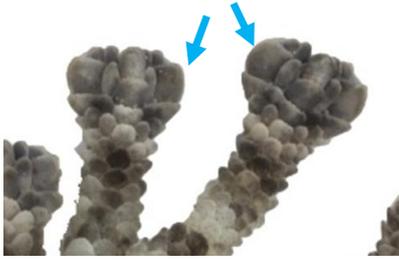
*Christinus marmoratus*

**9a.** Complex blackish pattern over grey



*Christinus marmoratus*

**9a.** Juvenile with orange patches on tail and lower back



*Christinus marmoratus*

**9a.** Scales on top of toe pads enlarged

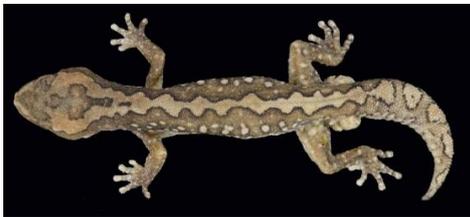


*Strophurus assimilis*

**9b.** Scales on top of toe pads same size as adjacent scales

**10. a.** Predominant colours grey, brown or olive; tail usually somewhat swollen and usually less than 80% of SVL when original ..... [Diplodactylus](#) (pg. 14)

**b.** Predominant colours orange, sandy brown, yellow or pink; [Lucasium](#) (part) tail relatively slender, 80% or more of SVL ..... (pg. 21)



*Diplodactylus furcosus*

**10a.** Tail stout, shorter than the body

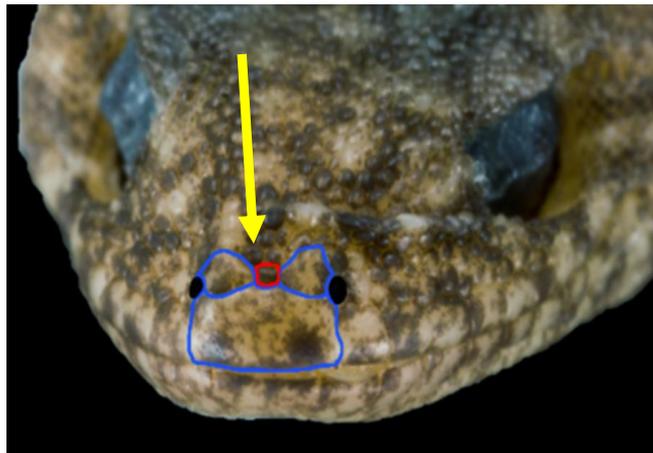


*Lucasium bungabinna*

**10b.** Tail relatively slender, as long as the body in most species

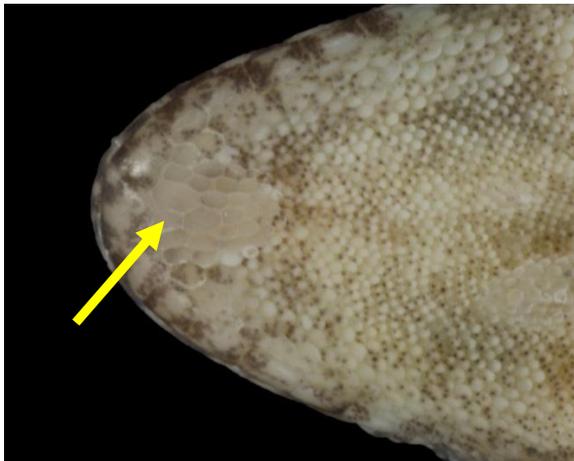
## Key to the South Australian species of *Christinus*

1. a. Nasal scales usually separated by only a single small scale; postmental scales well differentiated from adjacent scales, usually much longer than wide; Nullarbor Plain only . . . . . ***C. alexanderi***  
Nullarbor  
Marbled Gecko
- b. Nasal scales usually separated by two or more small scales; postmental scales not strongly differentiated from adjacent throat scales, usually about as long as wide; southern SA (incl. coastal areas of the Nullarbor Plain) . . . . . ***C. marmoratus***  
Common  
Marbled Gecko



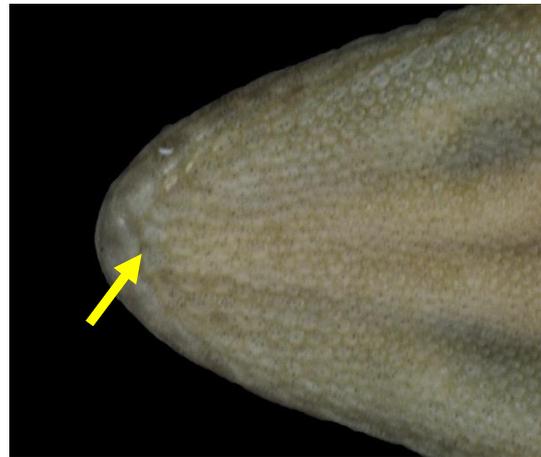
*C. alexanderi*

- 1a.** Above the rostral scale (arrow), usually only a single small scale (red) separating larger supranasal scales (blue)



*C. alexanderi*

- 1a.** A pair of large scales behind the 'chin'



*C. marmoratus*

- 1b.** Variable, often weak or no development of large scales behind the chin

## Key to the South Australian species of *Diplodactylus*

1. a. Tail very short, flattened with bead-like scales on its dorsal surface ..... 2
- b. Tail circular in cross-section ..... 3



*D. conspicillatus*

1a. Tail broad, flattened



*D. furcosus*

1b. Tail cylindrical

2. a. Original tail ends with a small tapering extension; scales on nape and top of head noticeably larger than those on side of the neck; drab colour pattern, brown-grey with darker network ..... ***D. laevis***  
Desert Fat-tailed Gecko
- b. Original tail ends with no more than a small bump (see fig 1a); scales on nape and top of head not larger than those on side of the neck; complex colour pattern including whitish spots and blotches on a background of intermixed blackish and brown smudges and lines ..... ***D. conspicillatus***  
Variable Fat-tailed Gecko



*D. laevis*

2a. Simple colour pattern of dark over light brown, tail\* with pointed extension at the tip

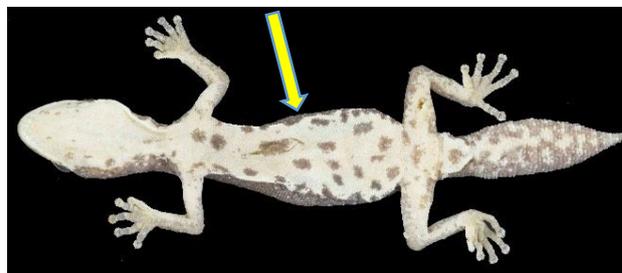


*D. conspicillatus*

2b. "Busy" colour pattern with numerous pale and dark blotches, tail\* tip lacks pointed extension

\*Only original tails differ; regenerated tails similar in both species, with rounded ends.

- 3. a. Dorsal colouring relatively uniform, greyish to orange brown; belly white with dark brown smudges ..... ***D. tessellatus***  
Tessellated Gecko
- b. Dorsal colour pattern includes a light, dark-edged vertebral stripe or a series of dark-edged light dorsal blotches; belly uniform white ..... **4**



*D. tessellatus*, dorsal & ventral views

**3a.** Mottled back and dark-spotted belly



*D. galeatus*

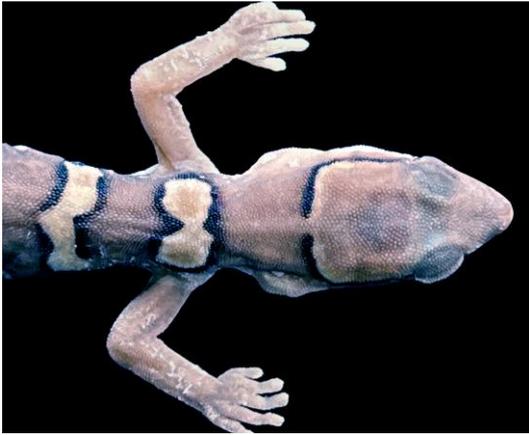
**3b.** Back with dark-edged pale blotches



*D. furcosus*

**3b.** Back with dark-edged pale vertebral stripe

- 4. a. Body reddish tan dorsally, with a simple pattern of a pale head cap and three or four symmetrical pale yellow dorsal blotches, each with a dark outline (fig.3b, left) ..... ***D. galeatus***  
Helmeted Gecko
- b. Body earth brown to dark grey-brown, variably patterned but often including a continuous vertebral stripe with scalloped or zigzag margins, (fig.3b, right) ..... **5**
- 5. a. Head, narrow, snout weakly pointed when viewed from above; SA populations normally lack a vertebral stripe ..... ***D. pulcher***  
Sharp-nosed Gecko
- b. Head broad and snout broadly rounded when viewed from above; vertebral stripe present in most specimens ..... **6**



*D. pulcher*

**5a.** Head narrow, snout weakly pointed



*D. wiru*

**5b.** Head and snout rounded

- 6. a. Pale dorsal stripe forms a dark-outlined pale fork ("Y") on the back of the head ..... **7**
- b. Pale dorsal stripe ends in a pale cap on top of the back of the head with a gradually darker centre, not a distinctly outlined "Y" ..... **8**



*D. furcosus*

**6a.** Back of head with divided pale fork



*D. wiru*

**6b.** Back of head with continuous pale cap

- 7. a. Y-marking straight-edged, well-defined; pale dorsal markings with a narrow black outline separating them from the darker background colour; markings clear and without mottling of lighter or darker shades ..... ***D. furcosus***  
Ranges Stone Gecko
- b. Y-marking ragged-edged, uneven; dorsal markings not neatly demarcated by dark outlines; pale dorsal markings very variable and often irregular, with pale blotches and darker body colouring mottled by scattered lighter and darker scales ..... ***D. calcicolus***  
(part)  
South Coast Stone Gecko



*D. furcosus*

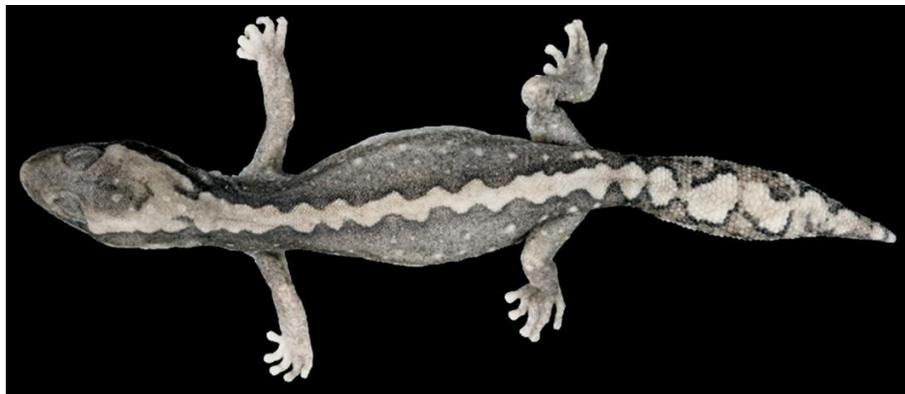
**7a.** Y-marking and dorsal pattern dark-edged, well-defined



*D. calcicolus*

**7b.** Y-marking and dorsal pattern irregular

- 8. a. Dorsal pattern very clear cut with a relatively narrow, usually serrated-edged pale dorsal stripe, and small to large lateral pale spots tending to form one or more series running along the flanks ..... 9
- b. Pale dorsal markings dorsal markings very variable and often irregular, with pale blotches and darker body colouring mottled by scattered lighter and darker scales ..... *D. calcicolus* (part)



*D vittatus*

**8a.** Dorsal pattern continuous, well-defined



*D. calcicolus*

**8b.** Dorsal pattern continuous but ragged



*D. calcicolus*

**8b.** Dorsal pattern broken, irregular

- |    |    |  |  |
|----|----|--|--|
| 9. | a. | Great Victoria Desert and associated sandy habitats to the south, east as far as the Gawler Ranges (see distribution map). . | <b><i>D. wiru</i></b><br>Desert Wood Gecko       |
|    | b. | Murray River corridor and adjacent heathy woodland and mallee (see distribution map) . . . . .                               | <b><i>D. vittatus</i></b><br>Eastern Stone Gecko |

## Key to the South Australian species of *Gehyra*

*Most species of Gehyra are difficult to identify due to considerable individual variation. In some cases checking using genetic markers may be the only sure way to be certain of identification.*

1. a. Dorsal pattern reduced to small scattered black dots and or unconnected short wavy lines; adults generally without obvious whitish dots or lines but juveniles and subadults may have a scattering of indistinct small pale dots; SVL to 65 mm . . . . . ***G. purpurascens***  
Robust Tree Gehyra
- b. Dorsal pattern of adults complex, including both black lines or dashes and white or cream spots or short bars; maximum SVL less than 55 mm (but see 4a, *G. lazelli*, below) . . . . . **2**



*G. purpurascens*

**1a.** Pattern of small dark lines and spots; no pale markings in adults

2. a. Back with a dorsal pattern of more or less continuous wavy or crescentic dark lines, edged with white; whitish markings tend to arrange as 'highlights' on the trailing edges of the black lines . . . . . **3**
- b. Pattern not as above; white to pale grey circular spots present, not aligned with black markings . . . . . **4**



*G. versicolor*

**2a.** Pale markings arranged on edges of the dark markings



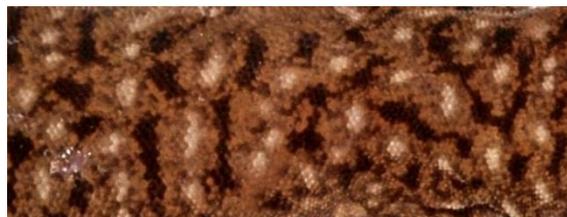
*G. lazelli*

**2b.** Pale spots not aligned with dark markings

3. a. In South Australia confined to the northern Nullarbor Plain and southern Great Victoria Desert (see distribution map) . . . . . ***G. variegata***  
Western Tree Gehyra
- b. Distributed across most of the eastern three-quarters of South Australia, but absent from the southern Eyre Peninsula, southern mallee and the southeast of the state (see distribution map). . . . . ***G. versicolor***  
Eastern Tree Gehyra
4. a. General body colour grey brown to grey; SVL to 55 mm; southern SA to Gawler and Flinders Ranges; far northern Flinders Ranges has populations of much larger individuals, to 70 mm SVL . . . . . ***G. lazelli***  
Southern Rock Gehyra
- b. General body colour light pinkish brown to rust brown; SVL less than 45 mm; northwest ranges . . . . . **5**
5. a. Dark dorsal pattern of nearly continuous dark, blurry lines; white spots obscure, poorly contrasting with background colour . . . . . ***G. montium***  
Centralian Gehyra
- b. Dark dorsal pattern of discontinuous short wavy bars and squiggles; white spots prominent, sometimes arranged in cross rows. . . . . ***G. pulingka***  
Central Ranges Rock Gehyra

*G. montium*

- 5a.** Dark lines mostly continuous; white spots weakly contrasting

*G. pulingka*

- 5b.** Dark lines mostly broken; white spots strongly contrasting

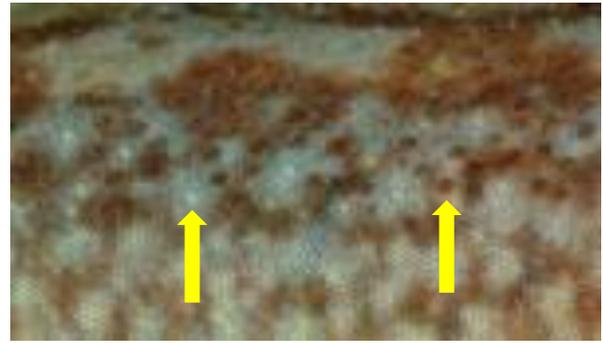
**Key to the South Australian species of *Lucasium***

- 1. a. Dorsal pattern of three butterfly-shaped pink to brown blotches on a paler background; dorsal scales rough with a scattering of enlarged, tubercular scales . . . . . ***L. byrnei***  
Gibber Gecko
- b. Dorsal pattern includes a pale vertebral stripe or series of pale blotches; dorsal scales smooth . . . . . **2**



*L. byrnei*

**1a.** Widely spaced darker paired blotches on back



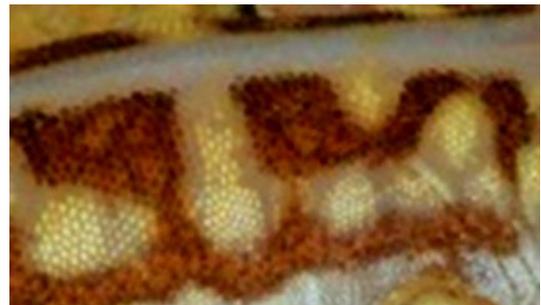
*L. byrnei*

**1a.** Scattered enlarged scales on the back



*L. damaeum*

**1b.** Pale stripe or series of blotches down the middle of the back



*L. microplax*

**1b.** All back scales small, nearly uniform

- 2. a. Dorsal pattern of rectangular brown 'islands' contained in a pale vertebral stripe, outlined narrowly by black. . . . . ***L. steindachneri***  
Map Gecko
- b. Dorsal body pattern with either a uniform pale vertebral stripe or a closely spaced series of pale blotches aligned along the middle of the back . . . . . **3**



*L. steindachneri*

**2a.** Pale vertebral stripe encloses darker 'islands'



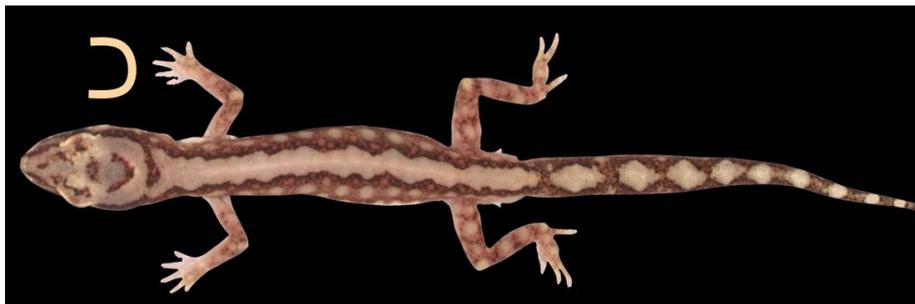
*L. bungabinna*

**2b.** Pale vertebral stripe without dark patches

- 3**
- a.** Pale vertebral stripe either continuous or divided into a series of vertebral pale blotches; narrowly separated from the light colour on the back of the head, forming a U-shape, rather than a Y; no adhesive toe pads . . . . .
  - b.** Pale vertebral stripe always present and continues onto the back of the head where it forks into a Y shape; paired adhesive toe pads present (may be very small – see fig 4b) . . . . .

***L. damaeum***  
Beaded Gecko

**4**



*L. damaeum*

**3a.** "U-shaped" nape marking



*L. damaeum*

**3a.** Toe pads absent



*L. microplax*

**3b.** "Y-shaped" nape marking

- 4. a. Colour two-toned—pale beige on medium to sandy brown (fig 2b); pair of easily observed (obviously larger than adjacent toe scales) adhesive toe pads present on underside of tips of toes . . . . . ***L. bungabinna***  
Southern Sandplain Gecko
- b. Colour three-toned – pale beige on sandy brown with yellow lateral spots (fig. 3b); adhesive toe pads barely larger than an adjacent toe scales . . . . . ***L. microplax***  
Central Sandplain Gecko



*L. bungabinna*

**4a.** A pair of enlarged pads on each toe



*L. microplax*

**4b.** Toes pads tiny

### Key to the South Australian species of *Nephrurus*

*NB: Original tails have a mix of large and small scales on the upper surface; regrown tails have uniformly small scales. The knob is not regrown, but regrown tails of N. levis are still relatively wide while those of the other three species are very thin and narrow.*

1.
  - a. Back covered by clusters of sharp-pointed, spiny scales; limbs and back of head also with single and clustered spiny scales; tail very small (shorter than thigh) . . . . . ***N. amyae***  
Centralian Knob-tailed Gecko
  - b. Body with warty enlarged scales, no clusters of spines on back or head; tail moderate in size (longer than thigh). . . . . **2**



*N. amyae*

**1a.** Back with enlarged spiny scales



*N. levis*

**1b.** Back with warty, not spiny scales

- 2. a. Base of tail broad and strongly differentiated from terminal portion ..... ***N. levis***  
Common Knob-tailed Gecko
- b. Base of tail narrower, not sharply differentiated and tapers gradually. .... **3**



*N. levis*

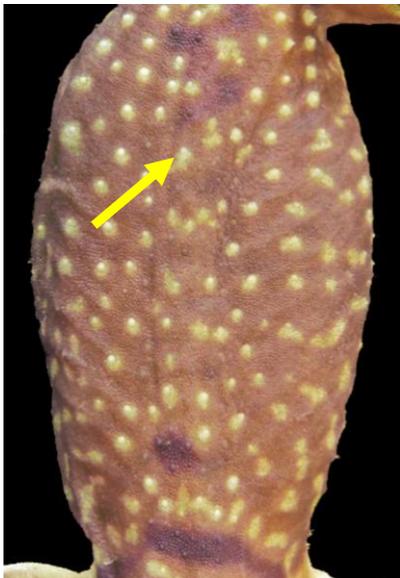


*N. laevissimus*

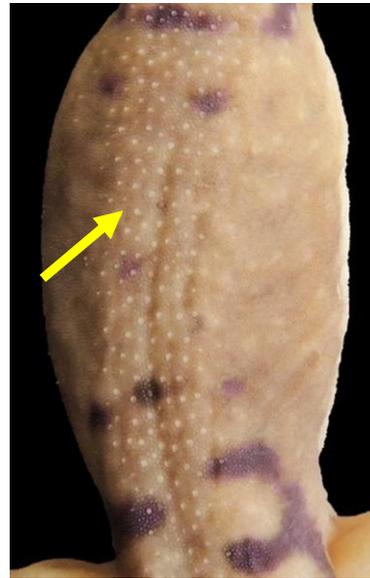
**2a.** Base of tail very much broader than the terminal portion

**2b.** Base of tail less expanded, tapers more gradually into the terminal portion

- 3. a. Warty scales on back contrastingly coloured pale yellow . . ***N. stellatus***  
Starred Knob-tailed Gecko
- b. Warty scales on back similar in colour to the adjacent scales ..... **4**



*N. stellatus*

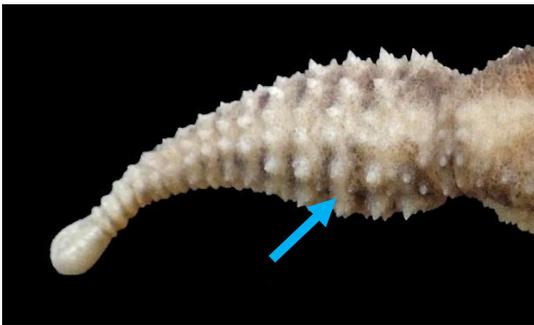


*N. laevissimus*

**3a.** Back with contrasting pale enlarged scales

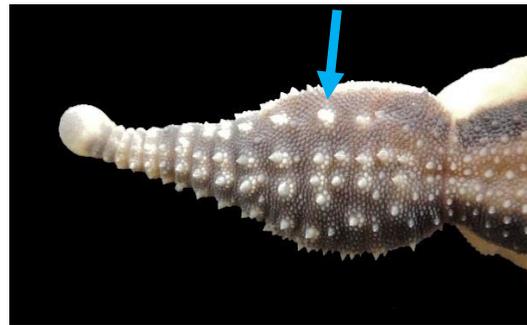
**3b.** Back with enlarged scales similar in colour to adjacent scales

4. a. Usually some whitish, often Y-shaped cross bands on the anterior body and/or an off-white dorsal stripe that continues along the middle of the tail; spiny scales on tail arranged in transverse whorls all the way to the base of the tail . . . . . ***N. deleani***  
Pernatty Knob-tailed Gecko
- b. Back pattern rather plain with dark bands or blotches on the neck and hips; spiny scales on tail arranged in transverse whorls only on the terminal part of the tail; base of the tail with evenly distributed whitish spiny scales not forming obvious whorls. . . . . ***N. laevisimus***  
Pale Knob-tailed Gecko



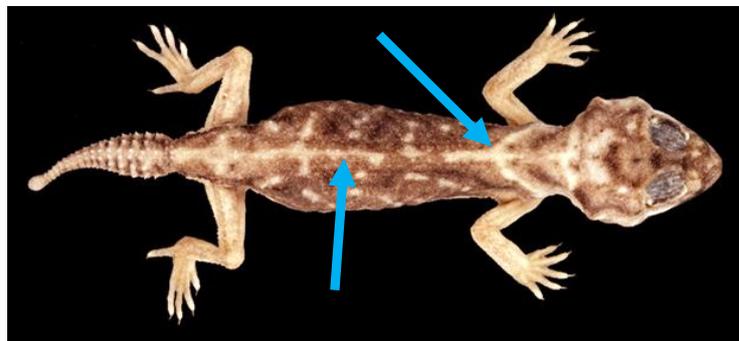
*N. deleani*

**4a.** Enlarged scales almost contact at their bases



*N. laevisimus*

**4b.** Enlarged scales are separated from one another by smaller scales



*N. deleani*

**4a.** Pale Y-shaped shoulder band and pale vertebral stripe



*N. laevisimus*

**4b.** No pale vertebral stripe; dark bands on neck and hips

## Key to the South Australian species of *Rhynchoedura*

The species of *Rhynchoedura* are genetically distinct but morphologically very similar, such that many specimens cannot be reliably identified by their external appearance. The three mostly occupy distinct regions and so the rough key below relies on geography, but specimens from the overlap zones along the Barrier Highway in the east and the corridor from the northern Eyre Peninsula along the Stuart Highway to the NT border could belong to either of the species that might occur in these regions.

### \*\*Use distribution map to assess most likely species\*\*

- A.** Great Victoria Desert and adjacent mountain range country of the APY Lands, east to about the Stuart Highway and south to about the transcontinental railway line; light spots usually large, numerous, and often in transverse rows; dark markings usually strongly contrasting with background colour . . . . . ***R. ornata***  
Western Beaked Gecko
- B.** Most of arid South Australia, west to about the Stuart Highway, and southeast to approximately the line of the Barrier Highway; light spots usually small and confined to a single row along the flanks; an irregular, often broad, unmarked pale vertebral zone usually present; coarse light and dark markings often poorly contrasting . . ***R. eyrensis***  
Eyrean Beaked Gecko
- C.** South Olary Plains between the Barrier Highway and the Murray River; mid-dorsal pattern often lacks strongly contrasting markings, with a fine-grained mix of light and dark flecks, often a narrow pale vertebral zone, and few but relatively prominent lateral pale spots. ***R. angusta***  
Border Beaked Gecko



*R. ornata*



*R. eyrensis*



*R. angusta*

## Key to the South Australian species of *Strophurus*

*NB: Only original tails have the distinct spiny patterns described here; regrown tails have more erratic patterns. The enlarged spiny or tubercular scales on the body match those on the tail.*

- 1. a. Back patterned with small black-ringed white spots . . . . . ***S. elderi***  
Jewelled Gecko
- b. Dorsal surface of the body and tail with no white spots . . . . . **2**



*S. elderi*

**1a.** Back covered in vivid white dots



*S. williamsi*

**1b.** Back uniformly grey or grey peppered with black

- 2. a. Tail tip yellow; tail with small, sharp black and yellow spines; tongue and lining of mouth yellow . . . . . ***S. ciliaris***  
Northern Spiny-tailed Gecko
- b. Tail tip grey; tail spines stout and never black; lining of mouth blue and tongue purplish . . . . . **3**



*S. ciliaris*

**2a.** Tail tip yellow; some spines black



*S. assimilis*

**2b.** Entire tail grey; any spines cream to dull orange



*S. ciliaris*



*S. intermedius*

**2a.** Tongue and mouth lining yellow

**2b.** Tongue and mouth lining blue to purple

- 3. a. Body and tail lack rows of distinctly enlarged and coloured (brown, cream or orange) spines or tubercles; narrow rings of bright orange skin exposed when the tail is curled downwards . . . . . ***S. strophurus***  
Western Spiny-tailed Gecko
- b. Body and tail with rows of distinctly enlarged and coloured (light brown cream or orange) tubercles or spines; tail without narrow bands of bright orange skin . . . . . **4**



*S. strophurus*

**3a.** Narrow bands of bright orange skin revealed when tail curls down

- 4. a. Body and tail with inconspicuous brown tubercles arranged roughly in cross-rows on the tail; belly with one or two longitudinal grey irregular stripes. . . . . ***S. intermedius***  
Southern Spiny-tailed Gecko
- b. Body and tail with conspicuous small to large pale spines; belly off-white to pale grey with a few scattered dark speckles, belly without stripes . . . . . **5**



*S. intermedius*

**4a.** Tail tubercles blunt, the largest bordered on either side by smaller tubercles



*S. williamsi*

**4b.** Tail tubercles form pointed spines

- 5.**
- a.** Tail with two rows of large, light brown spines; snout-vent length to 70 mm or more; west of Port Augusta .....
  - b.** Tail with four rows of small bone-coloured spines; snout-vent length less than 60 mm; east of the Flinders Ranges .....

***S. assimilis***  
Thorn-tailed Gecko  
***S. williamsi***  
Eastern Spiny-tailed Gecko



*S. assimilis*

**5a.** Tail spines large, triangular, in two main rows



*S. williamsi*

**5b.** Tail spines small, slender, in four main rows