

Table S1. Principal component analysis loadings for the percent total length of measurements of the seven Indian Ocean *Rhinobatos*.

| Character | PC1 | PC2 |
|---|----------|----------|
| Disc width—maximum | -0.64341 | -0.41309 |
| Disc length | -0.86014 | -0.28109 |
| Head length—dorsal | -0.06918 | 0.221291 |
| Head length—ventral | -0.93151 | 0.05288 |
| Snout length (pre-socket) | -0.52958 | 0.707949 |
| Snout to first dorsal-fin origin | -0.14191 | 0.212358 |
| Snout to second dorsal-fin origin | 0.553462 | 0.221685 |
| Snout to upper caudal-fin origin | 0.014673 | 0.430965 |
| Snout to lower caudal-fin origin | 0.593736 | 0.393279 |
| Snout to pelvic-fin origin | -0.86916 | -0.06466 |
| Snout to anterior vent | -0.83608 | -0.12223 |
| Pelvic-fin insertion to first dorsal-fin origin | 0.608076 | 0.186742 |
| Interdorsal space | 0.759929 | 0.418391 |
| Caudal peduncle length (dorsal) | 0.051246 | 0.622003 |
| Disc width—anterior orbit | -0.76419 | -0.10599 |
| Body width—pelvic insertion | 0.060933 | -0.46945 |
| Body width—first dorsal-fin origin | 0.509985 | -0.31439 |
| Body width—second dorsal-fin origin | 0.447282 | -0.22559 |
| Body depth—maximum | -0.31029 | -0.63911 |
| Body depth—pelvic-fin insertion | 0.303557 | -0.65828 |
| Body depth—first dorsal-fin origin | 0.315905 | -0.56846 |
| Body depth—second dorsal-fin origin | 0.238796 | -0.65334 |
| Orbit diameter | -0.52914 | 0.391675 |
| Spiracle length | -0.73609 | -0.21528 |
| Orbit and spiracle length | -0.7812 | 0.162286 |
| Interorbital width | -0.78943 | -0.1965 |
| Interspiracle width | -0.56205 | -0.18437 |
| Pelvic fin—length | 0.520635 | -0.3849 |
| Pelvic fin—anterior margin length | -0.15626 | -0.21313 |
| Pelvic fin—width | -0.10509 | -0.39829 |
| Pelvic fin—base width | 0.304518 | -0.47843 |
| Pelvic fin—inner margin length | 0.179183 | -0.09969 |
| First dorsal fin—length | -0.27365 | -0.58292 |
| First dorsal fin—anterior margin length | -0.1658 | -0.70214 |
| First dorsal fin—height | 0.135363 | -0.72543 |
| First dorsal fin—base length | -0.15188 | -0.70192 |
| First dorsal fin—inner margin length | -0.5399 | 0.300359 |
| Second dorsal fin—length | -0.18328 | -0.53158 |
| Second dorsal fin—anterior margin length | -0.35643 | -0.26209 |
| Second dorsal fin—height | 0.162816 | -0.43776 |
| Second dorsal fin—base length | 0.06704 | -0.60088 |
| Second dorsal fin—inner margin length | -0.57162 | 0.381052 |

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| Caudal fin—dorsal margin | -0.49569 | -0.3934 |
| Caudal fin—preventral margin | -0.2941 | 0.150209 |
| Preoral length | -0.45006 | 0.653815 |
| Mouth width | -0.93148 | -0.13582 |
| Prenarial length | -0.51355 | 0.70261 |
| Nostril length | -0.62773 | 0.002701 |
| Anterior aperture, width | -0.62508 | 0.016121 |
| Anterior nasal flap, base length | -0.25128 | 0.332956 |
| Anterior nasal flap, width | -0.46591 | 0.10093 |
| Posterolateral nasal flap—total length | -0.59502 | 0.009866 |
| Posterolateral nasal flap—width | -0.18919 | 0.113252 |
| Posterior nasal flap—base length | 0.158822 | -0.2201 |
| Posterior nasal flap—width | 0.068898 | -0.17582 |
| Distance across anterior nasal apertures | -0.66092 | 0.102819 |
| Distance between anterior nasal flaps | -0.24917 | -0.06848 |
| Internarial distance—minimum width | -0.80975 | 0.209458 |
| Distance from nostril to disc margin | -0.44954 | 0.329492 |
| Internarial distance—minimum width | -0.63544 | -0.31447 |
| Distance between first gill openings | -0.90779 | -0.26601 |
| Distance between fifth gill openings | -0.84235 | -0.31764 |

Table S2. Linear discriminant loadings for the percent total length of measurements of the seven Indian Ocean *Rhinobatos*.

| Character | LD1 | LD2 |
|---|----------|----------|
| Disc width—maximum | -0.03548 | -0.2238 |
| Disc length | -0.42493 | -0.15702 |
| Head length—dorsal | 0.339084 | -0.28871 |
| Head length—ventral | -0.41796 | 0.108897 |
| Snout length (pre-socket) | -0.13219 | 0.115758 |
| Snout to first dorsal-fin origin | -0.03315 | 0.124659 |
| Snout to second dorsal-fin origin | 0.213192 | 0.386354 |
| Snout to upper caudal-fin origin | 0.022987 | -0.18866 |
| Snout to lower caudal-fin origin | 0.31597 | 0.466486 |
| Snout to pelvic-fin origin | 0.597578 | -0.77746 |
| Snout to anterior vent | -0.20146 | 0.143598 |
| Pelvic-fin insertion to first dorsal-fin origin | 0.10573 | 0.343422 |
| Interdorsal space | 0.352864 | -0.39813 |
| Caudal peduncle length (dorsal) | -0.11851 | 0.115881 |
| Disc width—anterior orbit | 0.294601 | 0.003647 |
| Body width—pelvic insertion | -0.30734 | 0.197914 |
| Body width—first dorsal-fin origin | -0.06779 | 0.203383 |
| Body width—second dorsal-fin origin | -0.1503 | -0.24459 |
| Body depth—maximum | -0.74619 | 0.182797 |
| Body depth—pelvic-fin insertion | 0.247328 | -0.07126 |
| Body depth—first dorsal-fin origin | 0.431596 | 0.043302 |
| Body depth—second dorsal-fin origin | 0.187803 | -0.18178 |
| Orbit diameter | -0.01307 | -0.31951 |
| Spiracle length | -0.54058 | 0.148725 |
| Orbit and spiracle length | 0.432124 | -0.26855 |
| Interorbital width | -0.05266 | -0.33106 |
| Interspiracle width | 0.466542 | -0.3492 |
| Pelvic fin—length | -0.18751 | -0.04626 |
| Pelvic fin—anterior margin length | -0.08146 | -0.08434 |
| Pelvic fin—width | 0.310814 | 0.100452 |
| Pelvic fin—base width | 0.255032 | -0.16136 |
| Pelvic fin—inner margin length | 0.507265 | -0.20294 |
| First dorsal fin—length | -0.23993 | 0.100321 |
| First dorsal fin—anterior margin length | 0.244758 | -0.19782 |
| First dorsal fin—height | -0.09521 | -0.06383 |
| First dorsal fin—base length | 0.044878 | -0.18952 |
| First dorsal fin—inner margin length | -0.18148 | 0.258082 |
| Second dorsal fin—length | -0.12424 | -0.3781 |
| Second dorsal fin—anterior margin length | -0.20978 | 0.404235 |
| Second dorsal fin—height | 0.032401 | -0.06396 |
| Second dorsal fin—base length | -0.13907 | -0.18182 |
| Second dorsal fin—inner margin length | 0.611045 | -0.05262 |

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|--|----------|----------|
| Caudal fin—dorsal margin | 0.248511 | -1.03218 |
| Caudal fin—preventral margin | -0.22376 | 0.146015 |
| Preoral length | -0.35793 | 0.216136 |
| Mouth width | 0.194558 | 0.187993 |
| Prenarial length | -0.44533 | 0.205486 |
| Nostril length | 0.305719 | -0.11036 |
| Anterior aperture, width | -0.36288 | -0.08623 |
| Anterior nasal flap, base length | -0.08239 | -0.03085 |
| Anterior nasal flap, width | 0.200306 | -0.06794 |
| Posterolateral nasal flap—total length | 0.024586 | -0.241 |
| Posterolateral nasal flap—width | 0.195253 | -0.07241 |
| Posterior nasal flap—base length | 0.464149 | -0.83026 |
| Posterior nasal flap—width | 0.681698 | 0.051186 |
| Distance across anterior nasal apertures | 0.07167 | -0.05515 |
| Distance between anterior nasal flaps | -0.01444 | -0.09985 |
| Internarial distance—minimum width | -0.18655 | 0.01198 |
| Distance from nostril to disc margin | 0.043723 | 0.038085 |
| Third gill opening—width | -0.25204 | -0.19669 |
| Distance between first gill openings | -0.595 | 0.231564 |
| Distance between fifth gill openings | 0.09016 | -0.08527 |

Table S3. Linear discriminant loadings for the percent total length of nasal measurements of the seven Indian Ocean *Rhinobatos*.

| Nasal character | LD1 | LD2 |
|--|----------|----------|
| Nostril length | -2.0184 | 0.100623 |
| Anterior aperture, width | -0.75602 | 0.605001 |
| Anterior nasal flap, base length | 0.797739 | -0.10455 |
| Anterior nasal flap, width | -0.31504 | -0.6667 |
| Posterolateral nasal flap—total length | 0.023986 | 0.730144 |
| Posterolateral nasal flap—width | -0.44199 | -0.515 |
| Posterior nasal flap—base length | -1.08681 | -0.23457 |
| Posterior nasal flap—width | -1.24583 | -0.27872 |
| Distance across anterior nasal apertures | 0.641672 | 1.468504 |
| Distance between anterior nasal flaps | 1.386678 | 0.431483 |
| Internarial distance—minimum width | -0.16009 | 0.856149 |
| Distance from nostril to disc margin | 1.522242 | -0.89956 |

Table S4. Linear discriminant loadings for the percent total length of nasal measurements of the three Southwestern Indian Ocean *Rhinobatos*.

| Nasal character | LD1 | LD2 |
|--|----------|----------|
| Nostril length | -1.89155 | -3.56266 |
| Anterior aperture, width | -0.15847 | 0.376505 |
| Anterior nasal flap, base length | 2.009272 | 1.449159 |
| Anterior nasal flap, width | -0.51661 | -1.07881 |
| Posterolateral nasal flap—total length | 2.36936 | -1.10122 |
| Posterolateral nasal flap—width | 0.252261 | -2.34169 |
| Posterior nasal flap—base length | -1.55863 | 0.9556 |
| Posterior nasal flap—width | -0.85542 | -1.64551 |
| Distance across anterior nasal apertures | 0.87565 | -1.00499 |
| Distance between anterior nasal flaps | -1.25442 | 2.429041 |
| Internarial distance—minimum width | 1.292496 | 0.595186 |
| Distance from nostril to disc margin | -1.86373 | 3.159465 |

Table S5. Morphometric data for *Rhinobatos austini*. Values are the percent total length (%TL) for each measured character.

| | Holotype | Paratypes | | Female | Male | Mean |
|---|----------------|---|-------|--------|----------------|-------|
| | SAIAB 75223 | SAIAB 193574, SAIAB 186420, SAM 37223 | MIN | MAX | SAIAB 11125 | |
| Total length (mm) | 1150 | 888 | 1130 | 1160 | 815 | 1029 |
| Disc width–maximum | 33.04 | 31.39 | 34.91 | 32.07 | 32.02 | 32.69 |
| Disc length | 41.91 | 41.89 | 43.81 | 41.21 | 41.10 | 41.98 |
| Head length–dorsal | 29.57 | 26.91 | 38.29 | 27.16 | 26.63 | 29.71 |
| Head length–ventral | 26.52 | 25.90 | 27.43 | 26.12 | 26.13 | 26.42 |
| Snout length–presocket | 12.70 | 13.63 | 14.64 | 13.45 | 15.09 | 13.90 |
| Snout to first dorsal-fin origin | 56.09 | 57.22 | 58.22 | 56.21 | 56.44 | 56.84 |
| Snout to second dorsal-fin origin | 73.04 | 73.42 | 75.22 | 73.71 | 74.85 | 74.05 |
| Snout to upper caudal-fin origin | 84.26 | 86.10 | 87.61 | 84.48 | 85.89 | 85.67 |
| Snout to lower caudal-fin origin | 86.52 | 87.27 | 88.50 | 86.21 | 87.73 | 87.25 |
| Snout to pelvic-fin origin | 37.83 | 38.05 | 38.12 | 38.36 | 39.26 | 38.32 |
| Snout to anterior vent | 42.78 | 41.67 | 43.36 | 41.38 | 41.72 | 42.18 |
| Pelvic-fin insertion to first dorsal-fin origin | 9.48 | 10.94 | 13.51 | 20.26 | 17.91 | 14.42 |
| Interdorsal distance | 12.52 | 11.86 | 12.39 | 12.50 | 12.52 | 12.36 |
| Caudal peduncle length (dorsal) | 7.04 | 7.00 | 7.88 | 6.90 | 6.63 | 7.09 |
| Disc width–anterior orbit | 16.17 | 15.25 | 19.71 | 15.34 | 16.56 | 16.61 |
| Body width–pelvic insertion | 9.04 | 9.20 | 15.99 | 13.45 | 10.06 | 11.55 |
| Body width–first dorsal-fin origin | 9.48 | 8.41 | 10.36 | 9.31 | 9.82 | 9.47 |
| Body width–second dorsal-fin origin | 4.61 | 4.78 | 5.63 | 4.91 | 5.15 | 5.02 |
| Body depth–maximum | 5.22 | 4.95 | 6.73 | 5.17 | 4.91 | 5.40 |
| Body depth–pelvic-fin insertion | 5.22 | 4.73 | 5.31 | 4.74 | 4.91 | 4.98 |
| Body depth–first dorsal-fin origin | 4.52 | 3.83 | 4.69 | 4.05 | 4.54 | 4.33 |
| Body depth–second dorsal-fin origin | 2.61 | 2.60 | 3.15 | 2.59 | 2.70 | 2.73 |
| Orbit diameter | 3.48 | 3.15 | 3.68 | 3.45 | 4.66 | 3.68 |
| Spiracle length | 2.78 | 2.33 | 2.48 | 2.41 | 1.96 | 2.39 |
| Orbit and spiracle length | 4.61 | 5.07 | 5.75 | 5.00 | 5.77 | 5.24 |
| Interorbital width | 4.09 | 3.41 | 3.98 | 3.45 | 3.80 | 3.75 |
| Interspiracle width | 5.74 | 5.07 | 5.84 | 5.52 | 5.64 | 5.56 |
| Pelvic fin–length | 14.43 | 14.89 | 15.54 | 15.34 | 14.85 | 15.01 |
| Pelvic fin–anterior margin length | 8.09 | 8.07 | 9.29 | 6.98 | 8.34 | 8.16 |
| Pelvic fin–width | 6.26 | 6.19 | 6.73 | 5.86 | 4.79 | 5.96 |
| Pelvic fin–base length | 7.74 | 8.23 | 9.57 | 9.22 | 8.71 | 8.70 |
| Pelvic fin–inner margin length | 7.74 | 6.82 | 8.05 | 6.64 | 6.01 | 7.05 |
| First dorsal fin–length | 6.78 | 6.08 | 6.82 | 6.47 | 6.75 | 6.58 |
| First dorsal fin–anterior margin length | 9.57 | 9.20 | 10.36 | 8.88 | 9.69 | 9.54 |

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|--|-------|-------|-------|-------|-------|-------|
| First dorsal fin–height | 9.22 | 8.32 | 9.42 | 7.93 | 7.98 | 8.57 |
| First dorsal fin–base length | 4.43 | 3.83 | 4.57 | 4.40 | 4.17 | 4.28 |
| First dorsal fin–inner margin length | 2.61 | 2.04 | 2.48 | 1.90 | 2.33 | 2.27 |
| Second dorsal fin–length | 6.52 | 6.73 | 6.98 | 6.55 | 6.50 | 6.66 |
| Second dorsal fin–anterior margin length | 9.39 | 4.84 | 10.14 | 8.62 | 8.96 | 8.39 |
| Second dorsal fin–height | 7.48 | 3.89 | 7.77 | 7.67 | 7.48 | 6.86 |
| Second dorsal fin–base length | 4.61 | 4.39 | 4.60 | 4.31 | 4.29 | 4.44 |
| Second dorsal fin–inner margin length | 2.00 | 2.12 | 2.24 | 1.81 | 2.09 | 2.05 |
| Caudal fin–dorsal margin | 14.61 | 13.45 | 14.41 | 12.76 | 14.48 | 13.94 |
| Caudal fin–preventral margin | 6.26 | 4.66 | 6.19 | 6.03 | 6.99 | 6.03 |
| Preoral length | 15.04 | 15.61 | 16.89 | 15.86 | 18.04 | 16.29 |
| Mouth width | 5.83 | 5.52 | 6.19 | 6.21 | 5.40 | 5.83 |
| Prenarial length | 12.00 | 12.29 | 13.51 | 12.07 | 13.87 | 12.75 |
| Nostril length | 4.43 | 4.28 | 4.42 | 4.14 | 4.66 | 4.39 |
| Anterior nasal aperture–width | 1.39 | 1.26 | 2.03 | 1.47 | 1.23 | 1.47 |
| Anterior nasal flap–base length | 3.04 | 2.60 | 2.83 | 2.84 | 2.94 | 2.85 |
| Anterior nasal flap–width | 1.30 | 1.26 | 2.48 | 1.47 | 1.60 | 1.62 |
| Posterolateral nasal flap–total length | 2.78 | 2.96 | 3.60 | 3.02 | 3.31 | 3.14 |
| Posterolateral nasal flap–width | 1.22 | 0.68 | 1.26 | 0.43 | 0.49 | 0.81 |
| Posterior nasal flap–base length | 3.13 | 2.65 | 3.05 | 3.19 | 3.44 | 3.09 |
| Posterior nasal flap–width | 1.48 | 1.43 | 1.91 | 1.29 | 1.47 | 1.52 |
| Distance across anterior nasal apertures | 9.13 | 6.73 | 9.23 | 8.97 | 9.08 | 8.63 |
| Distance between anterior nasal flaps | 3.13 | 2.25 | 3.36 | 2.33 | 2.58 | 2.73 |
| Internarial distance–minimum width | 2.43 | 2.25 | 2.65 | 2.33 | 2.45 | 2.42 |
| Distance from nostril to disc margin | 3.04 | 2.96 | 4.28 | 3.10 | 3.44 | 3.36 |
| Third gill opening–width | 1.48 | 1.35 | 1.61 | 1.55 | 1.47 | 1.49 |
| Distance between first gill openings | 13.57 | 12.56 | 13.89 | 11.98 | 12.02 | 12.80 |
| Distance between fifth gill openings | 10.09 | 9.51 | 10.35 | 9.31 | 9.33 | 9.72 |
| Angle before the eyes ° | 65.0 | 58.4 | 67.9 | 59.4 | 57.5 | 61.6 |

Table S6. Morphometric data for *Rhinobatos holcorhynchus*. Values are the percent total length (%TL) for each measured character.

| | Holotype | Female | Males | | Mean |
|---|----------------------|----------------|----------------|----------------|-------|
| | BMNH 1922.1.13.18 | SAIAB 11145 | SAIAB 11144 | SAIAB 11146 | |
| Total length (mm) | 697 | 462 | 306 | 440 | 476 |
| Disc width–maximum | 30.27 | 30.30 | 30.68 | 32.68 | 30.98 |
| Disc length | 41.89 | 41.13 | 40.91 | 42.81 | 41.68 |
| Head length–dorsal | 28.46 | 30.30 | 29.77 | 30.72 | 29.81 |
| Head length–ventral | 27.96 | 27.71 | 28.18 | 28.10 | 27.99 |
| Snout length–presocket | 15.39 | 15.37 | 15.23 | 16.01 | 15.50 |
| Snout to first dorsal-fin origin | 55.95 | 56.28 | 57.50 | 58.17 | 56.98 |
| Snout to second dorsal-fin origin | 73.43 | 73.59 | 73.86 | 75.16 | 74.01 |
| Snout to upper caudal-fin origin | 85.94 | 86.58 | 86.14 | 84.97 | 85.91 |
| Snout to lower caudal-fin origin | 87.52 | 88.74 | 88.18 | 87.58 | 88.01 |
| Snout to pelvic-fin origin | 38.95 | 39.61 | 39.77 | 39.54 | 39.47 |
| Snout to anterior vent | 40.17 | 41.56 | 42.50 | 43.14 | 41.84 |
| Pelvic-fin insertion to first dorsal-fin origin | 9.83 | 10.82 | 11.14 | 11.44 | 10.81 |
| Interdorsal distance | 13.59 | 12.99 | 12.27 | 12.42 | 12.82 |
| Caudal peduncle length (dorsal) | 8.22 | 7.79 | 7.73 | 7.52 | 7.81 |
| Disc width–anterior orbit | 15.49 | 16.23 | 17.50 | 17.97 | 16.80 |
| Body width–pelvic insertion | 7.39 | 12.12 | 10.23 | 13.07 | 10.70 |
| Body width–first dorsal-fin origin | 6.96 | 9.74 | 9.77 | 8.82 | 8.82 |
| Body width–second dorsal-fin origin | 3.26 | 4.98 | 5.68 | 3.92 | 4.46 |
| Body depth–maximum | 4.02 | 4.33 | 4.55 | 4.90 | 4.45 |
| Body depth–pelvic-fin insertion | 4.12 | 4.33 | 4.09 | 3.92 | 4.11 |
| Body depth–first dorsal-fin origin | 3.92 | 4.55 | 3.64 | 3.59 | 3.92 |
| Body depth–second dorsal-fin origin | 2.45 | 2.38 | 2.27 | 2.29 | 2.35 |
| Orbit diameter | 4.13 | 3.90 | 4.55 | 5.23 | 4.45 |
| Spiracle length | 1.82 | 2.60 | 2.05 | 2.94 | 2.35 |
| Orbit and spiracle length | 5.60 | 6.49 | 6.36 | 6.86 | 6.33 |
| Interorbital width | 3.46 | 3.90 | 3.64 | 4.25 | 3.81 |
| Interspiracle width | 5.15 | 5.19 | 5.91 | 6.54 | 5.70 |
| Pelvic fin–length | 14.05 | 14.94 | 14.32 | 15.03 | 14.58 |
| Pelvic fin–anterior margin length | 7.40 | 7.14 | 7.05 | 8.17 | 7.44 |
| Pelvic fin–width | 5.62 | 5.84 | 8.41 | 5.88 | 6.44 |
| Pelvic fin–base length | 7.07 | 8.44 | 7.95 | 8.82 | 8.07 |
| Pelvic fin–inner margin length | 7.10 | 5.63 | 6.36 | 7.19 | 6.57 |
| First dorsal fin–length | 5.34 | 6.49 | 6.82 | 6.54 | 6.30 |
| First dorsal fin–anterior margin length | 9.01 | 8.66 | 10.00 | 10.46 | 9.53 |
| First dorsal fin–height | 6.71 | 7.36 | 8.41 | 7.52 | 7.50 |
| First dorsal fin–base length | 3.92 | 4.11 | 4.32 | 3.59 | 3.99 |

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|--|-------|-------|-------|-------|-------|
| First dorsal fin–inner margin length | 2.40 | 2.38 | 2.95 | 2.94 | 2.67 |
| Second dorsal fin–length | 5.72 | 6.28 | 6.59 | 6.21 | 6.20 |
| Second dorsal fin–anterior margin length | 7.86 | 8.23 | 9.32 | 8.82 | 8.56 |
| Second dorsal fin–height | 6.76 | 7.14 | 7.50 | 6.54 | 6.98 |
| Second dorsal fin–base length | 4.39 | 4.11 | 4.09 | 3.59 | 4.05 |
| Second dorsal fin–inner margin length | 2.04 | 2.38 | 2.50 | 2.61 | 2.38 |
| Caudal fin–dorsal margin | 13.99 | 11.90 | 13.41 | 15.03 | 13.58 |
| Caudal fin–preventral margin | 5.62 | 5.41 | 6.14 | 7.19 | 6.09 |
| Preoral length | 18.71 | 18.18 | 17.95 | 17.97 | 18.20 |
| Mouth width | 6.04 | 6.06 | 6.14 | 7.19 | 6.36 |
| Prenarial length | 14.09 | 13.64 | 13.86 | 13.73 | 13.83 |
| Nostril length | 4.43 | 4.76 | 4.55 | 4.90 | 4.66 |
| Anterior nasal aperture–width | 1.49 | 1.52 | 1.82 | 1.63 | 1.61 |
| Anterior nasal flap–base length | 2.78 | 3.25 | 2.95 | 3.27 | 3.06 |
| Anterior nasal flap–width | 1.39 | 1.73 | 1.59 | 1.96 | 1.67 |
| Posterolateral nasal flap–total length | 3.11 | 3.68 | 3.41 | 3.27 | 3.37 |
| Posterolateral nasal flap–width | 0.53 | 0.87 | 0.68 | 0.98 | 0.76 |
| Posterior nasal flap–base length | 3.08 | 3.46 | 2.95 | 2.61 | 3.03 |
| Posterior nasal flap–width | 1.00 | 1.52 | 1.59 | 1.96 | 1.52 |
| Distance across anterior nasal apertures | 9.45 | 9.31 | 10.23 | 10.46 | 9.86 |
| Distance between anterior nasal flaps | 2.35 | 2.60 | 2.95 | 3.27 | 2.79 |
| Internarial distance–minimum width | 2.32 | 2.60 | 2.50 | 3.27 | 2.67 |
| Distance from nostril to disc margin | 2.02 | 3.25 | 2.95 | 3.59 | 2.95 |
| Third gill opening–width | 1.62 | 0.87 | 1.36 | 1.96 | 1.45 |
| Distance between first gill openings | 11.58 | 12.55 | 12.95 | 13.73 | 12.70 |
| Distance between fifth gill openings | 8.67 | 9.31 | 9.55 | 12.75 | 10.07 |
| Angle before eyes ° | 57.0 | 55.7 | 59.8 | 58.6 | 57.8 |

Table S7. Morphometric data for *Rhinobatos nudidorsalis*. Values are the percent total length (%TL) for each measured character.

| | Holotype | Female | Males | | Mean |
|---|---------------|--------------|----------------|----------------|-------|
| | HUMZ 81478 | ZMH 25548 | SAIAB 84016 | SAIAB 84037 | |
| Total length (mm) | 501 | 740 | 673 | 696 | 653 |
| Disc width–maximum | 29.90 | 32.57 | 30.01 | 29.06 | 30.39 |
| Disc length | 41.20 | 41.49 | 40.27 | 39.14 | 40.52 |
| Head length–dorsal | 21.80 | 19.86 | 27.19 | 27.05 | 23.98 |
| Head length–ventral | 27.30 | 25.54 | 26.89 | 26.04 | 26.44 |
| Snout length–presocket | 15.20 | 14.59 | 14.86 | 14.96 | 14.90 |
| Snout to first dorsal-fin origin | 57.80 | 58.11 | 57.36 | 57.55 | 57.70 |
| Snout to second dorsal-fin origin | 75.20 | 75.27 | 74.29 | 74.82 | 74.90 |
| Snout to upper caudal-fin origin | 86.60 | 87.16 | 86.63 | 86.04 | 86.61 |
| Snout to lower caudal-fin origin | 88.90 | 88.51 | 88.11 | 89.21 | 88.68 |
| Snout to pelvic-fin origin | 37.60 | 37.16 | 38.63 | 37.70 | 37.77 |
| Snout to anterior vent | 40.40 | 40.41 | 40.42 | 40.00 | 40.31 |
| Pelvic-fin insertion to first dorsal-fin origin | 13.50 | 13.38 | 11.44 | 14.10 | 13.11 |
| Interdorsal distance | 13.20 | 12.43 | 13.37 | 12.95 | 12.99 |
| Caudal peduncle length (dorsal) | 12.38 | 6.89 | 8.17 | 8.20 | 8.91 |
| Disc width–anterior orbit | 16.37 | 18.11 | 16.94 | 15.83 | 16.81 |
| Body width–pelvic insertion | 9.60 | 10.81 | 9.66 | 8.92 | 9.75 |
| Body width–first dorsal-fin origin | 9.50 | 10.54 | 9.66 | 8.78 | 9.62 |
| Body width–second dorsal-fin origin | 5.20 | 5.41 | 5.20 | 5.04 | 5.21 |
| Body depth–maximum | 4.20 | 4.73 | 3.42 | 3.60 | 3.99 |
| Body depth–pelvic-fin insertion | 4.10 | 4.32 | 4.16 | 3.88 | 4.12 |
| Body depth–first dorsal-fin origin | 4.60 | 3.65 | 3.57 | 3.45 | 3.82 |
| Body depth–second dorsal-fin origin | 2.20 | 2.30 | 2.23 | 2.16 | 2.22 |
| Orbit diameter | 4.50 | 3.65 | 3.86 | 3.88 | 3.97 |
| Spiracle length | 1.80 | 1.89 | 2.08 | 2.16 | 1.98 |
| Orbit and spiracle length | 5.00 | 4.19 | 5.20 | 4.89 | 4.82 |
| Interorbital width | 3.30 | 2.97 | 3.27 | 2.88 | 3.10 |
| Interspiracle width | 5.80 | 4.86 | 5.20 | 4.89 | 5.19 |
| Pelvic fin–length | 16.20 | 16.62 | 15.30 | 14.82 | 15.74 |
| Pelvic fin–anterior margin length | 8.30 | 9.46 | 8.32 | 7.34 | 8.35 |
| Pelvic fin–width | 5.80 | 6.08 | 6.54 | 5.76 | 6.04 |
| Pelvic fin–base length | 7.40 | 9.46 | 8.92 | 7.77 | 8.39 |
| Pelvic fin–inner margin length | 8.80 | 6.89 | 6.98 | 7.05 | 7.43 |
| First dorsal fin–length | 7.00 | 6.89 | 6.54 | 6.19 | 6.65 |
| First dorsal fin–anterior margin length | 9.60 | 9.32 | 9.51 | 8.92 | 9.34 |
| First dorsal fin–height | 7.20 | 7.03 | 7.88 | 7.19 | 7.32 |
| First dorsal fin–base length | 4.50 | 4.59 | 4.16 | 3.60 | 4.21 |

| | | | | | |
|--|-------|-------|-------|-------|-------|
| First dorsal fin–inner margin length | 2.60 | 2.30 | 2.67 | 2.73 | 2.58 |
| Second dorsal fin–length | 6.90 | 7.03 | 6.39 | 6.04 | 6.59 |
| Second dorsal fin–anterior margin length | 9.30 | 9.05 | 8.62 | 8.20 | 8.79 |
| Second dorsal fin–height | 6.10 | 6.49 | 6.98 | 6.76 | 6.58 |
| Second dorsal fin–base length | 4.70 | 4.86 | 4.16 | 3.88 | 4.40 |
| Second dorsal fin–inner margin length | 2.30 | 2.30 | 2.53 | 2.59 | 2.43 |
| Caudal fin–dorsal margin | 12.70 | 12.84 | 13.52 | 11.94 | 12.75 |
| Caudal fin–preventral margin | 6.90 | 6.76 | 5.94 | 6.19 | 6.45 |
| Preoral length | 19.10 | 17.16 | 17.83 | 17.55 | 17.91 |
| Mouth width | 5.30 | 5.00 | 5.05 | 5.18 | 5.13 |
| Prenarial length | 14.20 | 13.24 | 13.82 | 13.67 | 13.73 |
| Nostril length | 4.30 | 3.78 | 4.01 | 4.46 | 4.14 |
| Anterior nasal aperture–width | 1.30 | 1.22 | 1.49 | 1.44 | 1.36 |
| Anterior nasal flap–base length | 2.90 | 2.70 | 2.97 | 3.31 | 2.97 |
| Anterior nasal flap–width | 1.50 | 1.49 | 2.08 | 2.01 | 1.77 |
| Posterolateral nasal flap–total length | 3.60 | 3.24 | 3.42 | 2.88 | 3.28 |
| Posterolateral nasal flap–width | 0.70 | 0.68 | 0.89 | 0.72 | 0.75 |
| Posterior nasal flap–base length | 2.90 | 2.70 | 2.82 | 2.59 | 2.75 |
| Posterior nasal flap–width | 1.30 | 1.22 | 1.19 | 1.01 | 1.18 |
| Distance across anterior nasal apertures | 9.30 | 8.38 | 9.21 | 8.92 | 8.95 |
| Distance between anterior nasal flaps | 2.90 | 1.89 | 2.53 | 2.59 | 2.48 |
| Internarial distance–minimum width | 2.40 | 2.16 | 2.53 | 2.45 | 2.38 |
| Distance from nostril to disc margin | 3.10 | 3.38 | 3.57 | 3.17 | 3.30 |
| Third gill opening–width | 1.40 | 1.35 | 1.19 | 1.29 | 1.31 |
| Distance between first gill openings | 12.20 | 11.62 | 11.59 | 10.65 | 11.51 |
| Distance between fifth gill openings | 7.90 | 7.97 | 8.02 | 7.48 | 7.84 |
| Angle before eyes ° | 60.0 | 65.0 | 59.4 | 55.7 | 60.0 |