**Table S3.** Morphometric data of *Serrasentis gibsoni* n. sp. from three flatfish species from Gulf of Mexico. Measurements in micrometers (μm). Cg, Cement glands; Frs, Female reproductive system; H, Hooks; L, Length; N, Number of specimens examined; n, Number of characters observes; Prob. Recep, Proboscis receptacle; Saeffti. Pouch, Saefftigen´s pouch; W, Weight.

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|   | *Cyclopsetta chittendeni* | *Syacium gunteri*  | *Syacium papillosum* |
|  | Male | Female | Male | Male | Female |
| Measures | N = 5 | N = 8 | N = 2 | N = 7 | N = 2 |
| Body–L | 4,525–5,875 (5,392)  | 4,825–7,550 (6,131)  | 4,900–7,075(5988) | 7,150–7,375 (7,263)  | 6,225 |
| Proboscis–L | 850–1,000 (933)  | 800–1,150 (969) | 860–980 (920) | 950–1,140 (1,045) | 1,080 |
| Proboscis–W | 300–380 (327)  | 320–400 (368) | 280–400 (340) | 380–380 (380) | 400 |
| Longitudinal row–n | 24 | 24 | 24 | 24 | 24 |
| Hooks–n | 18 | 18–19 (18) | 18 | 18 | 18 |
| H. anterior–n | 3 | 3–4  | 3 | 3 | 3 |
| H. anterior–L  | 45–60 (55) | 60–70 (65) | 55–60 (58) | 55–65 (60) | 80 |
| H. anterior–W | 10–15 (13) | 10–10 (10) | 10–15 (13) | 10–20 (15) | 10 |
| H. middle–n | 10 | 10 | 10 | 10 | 10 |
| H. middle–L | 60–75 (70) | 60–90 (76) | 50–75 (63) | 60–80 (70) | 90 |
| H. middle–W | 25–35 (28) | 20–30 (25) | 20–30 (25) | 25–30 (28) | 30 |
| H. posterior–n  | 5 | 5 | 5 | 5 | 5 |
| H. posterior–L | 35–50 (39) | 25–40 (34) | 35–50 (43) | 40–50 (45) | 50 |
| H. posterior–W | 5–10 (7) | 5–15 (8) | 5–10 (8) | 7–10 (9) | 5 |
| Trunk–L | 3,375–5,775 (4,491)  | 3,100–6,200 (4,309) | 3,800–5,800 (4,800) | 4,390–5,875 (5,408) | 2,470–5,250 (3,860) |
| Trunk–W | 375–625 (503)  | 330–600 (476) | 475–572 (524) | 430–700 (600) | 400–525 (463) |
| Spines column–n | 11–12 (11)  | 10–14 (12) | 12–13 (12) | 12–13 (13) | 12–12 |
| Spines file–n | 7–8 (7)  | 5–7 (7) | 6–7 (6) | 6–7 (6) | 7–7 |
| Spines trunk–L | 35–60 (49)  | 35–70 (51) | 50–55 (53) | 50–65 (55) | 45–55 (50) |
| Neck–L | 210–430 (312)  | 100–380 (259) | 265–360 (313) | 275–425 (348) | 200–275 (238) |
| Neck–W | 200–350 (282)  | 200–390 (279) | 225–320 (273) | 260–375 (324) | 250–300 (275) |
| Prob. Recep–L  | 780–1,675 (1,287)  | 650–1,470 (1,198) | 1,040–1,425 (1,233) | 1,280–1,730 (1,554) | 730–1,470 (1,100) |
| Prob. Recep–W | 200–370 (319) | 180–380 (259) | 230–650 (440) | 220–400 (320) | 230–260 (245) |
| Lemnisci left–L | 2,100–2,980 (2,426)  | 1,950–3,625 (2,697) | 2,850–2,950 (2,900) | 2,250–3,700 (2,764) | 2,020–2,600 (2,310) |
| Lemnisci left–W | 60–90 (75)  | 40–100 (63) | 30–50 (40) | 40–125 (68) | 50–70 (60) |
| Lemnisci right–L | 1,800–2,680 (2,333)  | 1,970–3,250 (2,709) | 2,250–3,075 (2,663) | 2,250–3,700 (2,743) | 2,100–2,750 (2,425) |
| Lemnisci right–W | 60–100 (86)  | 40–100 (63) | 40–50 (45) | 40–100 (69) | 50–50 (50) |
| Combs row–n | 16–18 (17) | 17–19 (18) | 16–18 (17) | 16–20 (18) | 17–18 (18) |
| Spine comb–n | 24–28 (25)  | 22–32 (25) | 24 | 24–28 (26) | 22–22) |
| Spine comb–L | 50–60 (52) | 30–60 (48) | 55–55 (55) | 50–60 (56) | 25–50 (38) |
| Anterior testis–L | 105–130 (115)  | − | 100–135 (118) | 100–130 (111) | − |
| Anterior testis–W | 50–70 (57)  | − | 25–45 (35) | 45–100 (78) | − |
| Posterior testis–L | 100–120 (108)  | − | 10–150 (80) | 100–125 (114) | − |
| Posterior testis–W | 40–75 (60) | − | 30–45 (38) | 45–100 (81) | − |
| Between combs | 6–11 (7–10)  | − | 6–10 (7–9) | 6–14 (7–11) | − |
| Cement glands–n | 4 | − | 4 | 4 | − |
| Cement glands–L | 1,450–2,415 (1,978)  | − | 2,775–2,970 (2,873) | 1,525–3,190 (2,373) | − |
| Cement glands–W | 50−150 (110) | − | 50 | 50−100 (90) | − |
| Receptacle of Cg–L | 75–190 (124)  | − | 115–225 (170) | 125–225 (157) | − |
| Saeffti. Pouch–L | 255–360 (319)  | − | 425–450 (438) | 280–520 (402) | − |
| Seminal vesicle–L | 50–140 (96)  | − | 135–180 (158) | 90–175 (134) | − |
| Bursa copulatrix–L | 200–410 (304)  | − | 210–390 (300) | 220–375 (305) | − |
| Bursa copulatrix–W | 85–200 (147) | − | 160–205 (183) | 135–240 (190) | − |
| Cirrus–L | 105–125 (117) | − | 100–110 (105) | 75–275 (120) | − |
| Frs –L | − | 490–850 (739) | − | − | 915–915 (915) |
| Uterus–L | − | 275–580 (475) | − | − | 225–640 (433) |
| Uterus–W | − | 15–40 (30) | − | − | 25–30 (28) |
| Vagina–L | − | 125–190 (164) | − | − | 155–175 (165) |
| Vagina–W | − | 60–85 (67) | − | − | 50–60 (55) |
| Uterine bell–L | − | 80–140 (103) | − | − | 100 |
| Uterine bell–W | − | 30–65 (43) | − | − | 50 |
| Eggs–L | − | 15–35 (23) | − | − | 25 |
| Eggs–W | − | 10–10 (10) | − | − | 10 |
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