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Artikel: A new subgenus including three new species of the genus *Vexillum* (Gastropoda: Costelariidae) from the central Indo-Pacific with remarks on *Vexillum* (*Pusia*) *semicostatum* (Anton, 1838)

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Anhang: [Plates]

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Species plates 8–19, Figs 21–73

Plate 8: *Vexillum (Protoelongata) dekkersi* sp. nov., all figures 6 x

Fig. 21: Holotype, Philippines, Bohol, Panglao Island, Catarman (9°36'N, 123°52'E), reef slope with caves at 4–30 m, collected 2004, 12.4 mm, MNHN 27068.

Fig. 22a–b: Paratype 1, Philippines, Bohol, Balicasag Island, collected 2000, 11.7 mm, MS 63760.

Figs 23–24: Paratype 8, Philippines, Bohol, Balicasag Island, lumun lumun nets, collected 2006, juvenile, 8.5 mm, MH (fig. 24 detail of elongated protoconch).

Fig. 25: Paratype 12, Philippines, Cebu, Mactan Island, tangle nets, 12.5 mm, SIH.

Photos: Fig. 21 Barbara Buge & Philippe Maestrati (MNHN), Fig. 25 Shih I Huang, other photos Manfred Herrmann.

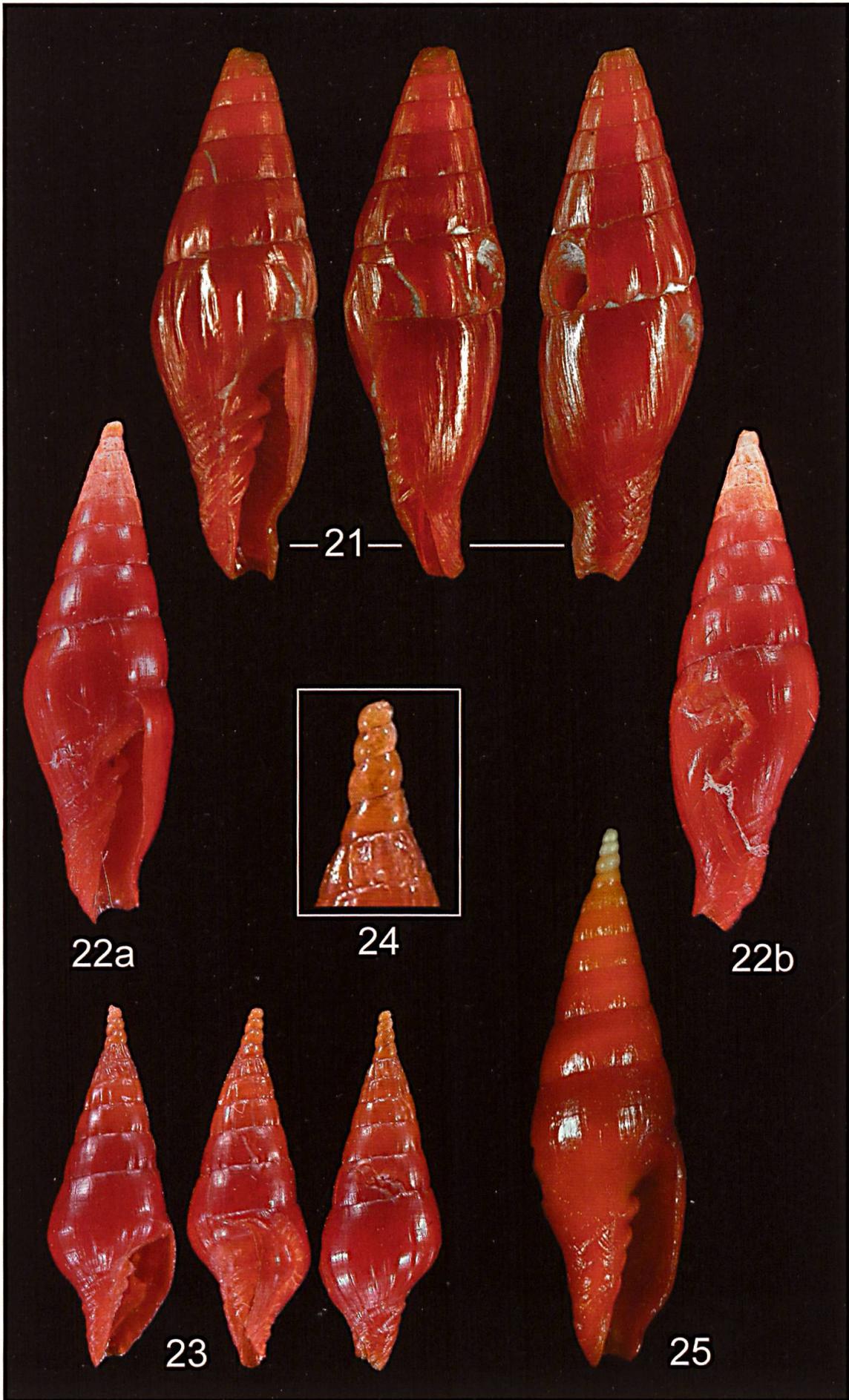


Plate 9: *Vexillum (Protoelongata) dekkersi* sp. nov., all figures 6 x

Fig. 26: French Polynesia, Society Islands, Tahiti, Arue, outer slope, 20–30 m, 10.9 mm, MB.

Fig. 27: Guam, Agat Bay, Anae Island, 14 m, under rocks in silt, collected Jan 1974 by Richard Salisbury, 14.1 mm, RAS.

Fig. 28: Palau, Koror State, Ngherceu Island, Barnum Wall, 6 m at night in oceanside dropoff coralline cave, scuba collected 15 Nov 2009 by Sandro Gori, SG.

Fig. 29: Indonesia, Celebes Sea, 01°22'21"N, 120°53'87"E, 8–40 m, 14.5 mm, GS.

Fig. 30: Solomon Islands, Campagne SALOMON 1, N/O "Alis", Station CP 1752 (9°06.9'S, 159°53.2'E), 896–912 m, collected 25 Sep 2001 by Bouchet/Dayrat/Warén, Richer IRD, MNHN.

Photos: Fig. 26 Philippe Bacchet, Fig. 27 Richard Salisbury, Fig. 28 Sandro Gori, other photos Manfred Herrmann.

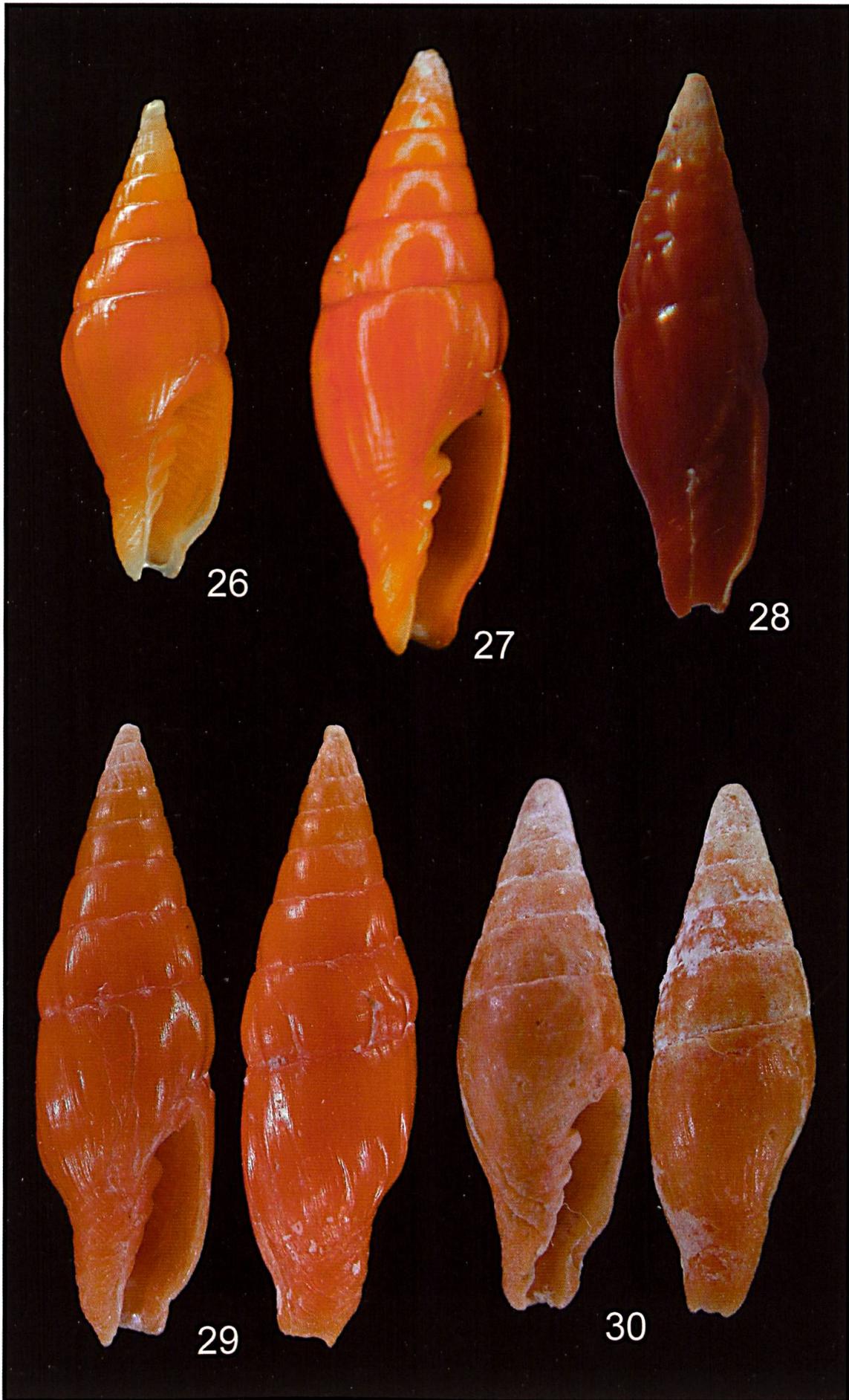


Plate 10: *Vexillum (Protoelongata) corallinum* (REEVE, 1845) comb. nov., figures 4 x

Fig. 31: Holotype, Philippines, Masbate, found on the sands, 14.8 mm, NHMUK 1967727.

Figs 32–33: Juvenile Specimen, Philippines, Bohol, Balicasag, lumun lumun nets, collected 2006, 6.8 mm, MH (fig. 33 detail of first whorls with elongated protoconch, 12 x).

Fig. 34: Specimen, Philippines, Bohol, Balicasag Island, 73–88 m, 17.5 mm, ex coll. Steinke, MH.

Fig. 35: Specimen, Australia, Queensland, Credlin Reef, dived up Jul 1997 from reef slope at 8 m at night, 17.1 mm, MH.

Photos: Fig. 31 John Wolff, other photos Manfred Herrmann.

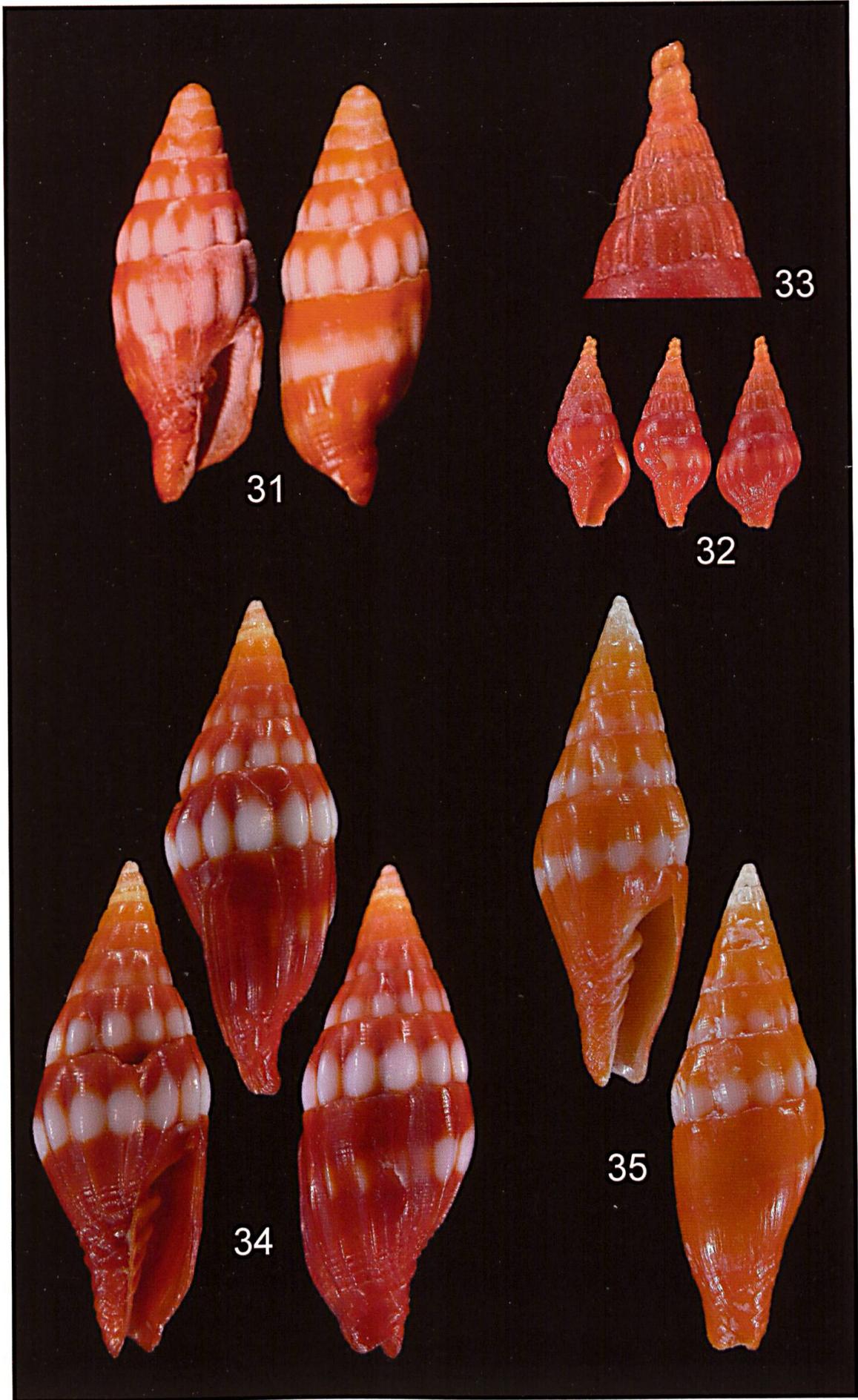


Plate 11: *Vexillum (Protoelongata) bilineatum* (REEVE, 1845) comb. nov., all figures 5 x

Fig. 36a–b: Syntype 1/3, unknown locality, 16.5 mm, NHMUK 1888.1.9.20.

Fig. 37: Juvenile Specimen, Guam, Orote Point , Orote Cliffs, scuba dived April 1979 under a huge pile of boulders at 17 m by Richard Salisbury, 9.0 mm, RAS.

Fig. 38: Type figure of *Mitra bilineata* REEVE, 1845.

Fig. 39: Specimen, Philippines, Cebu, dived 15–20 m, 20.6 mm, MH.

Photos: Fig. 36 John Wolff, Fig. 37 Richard Salisbury, Fig. 39 Manfred Herrmann.

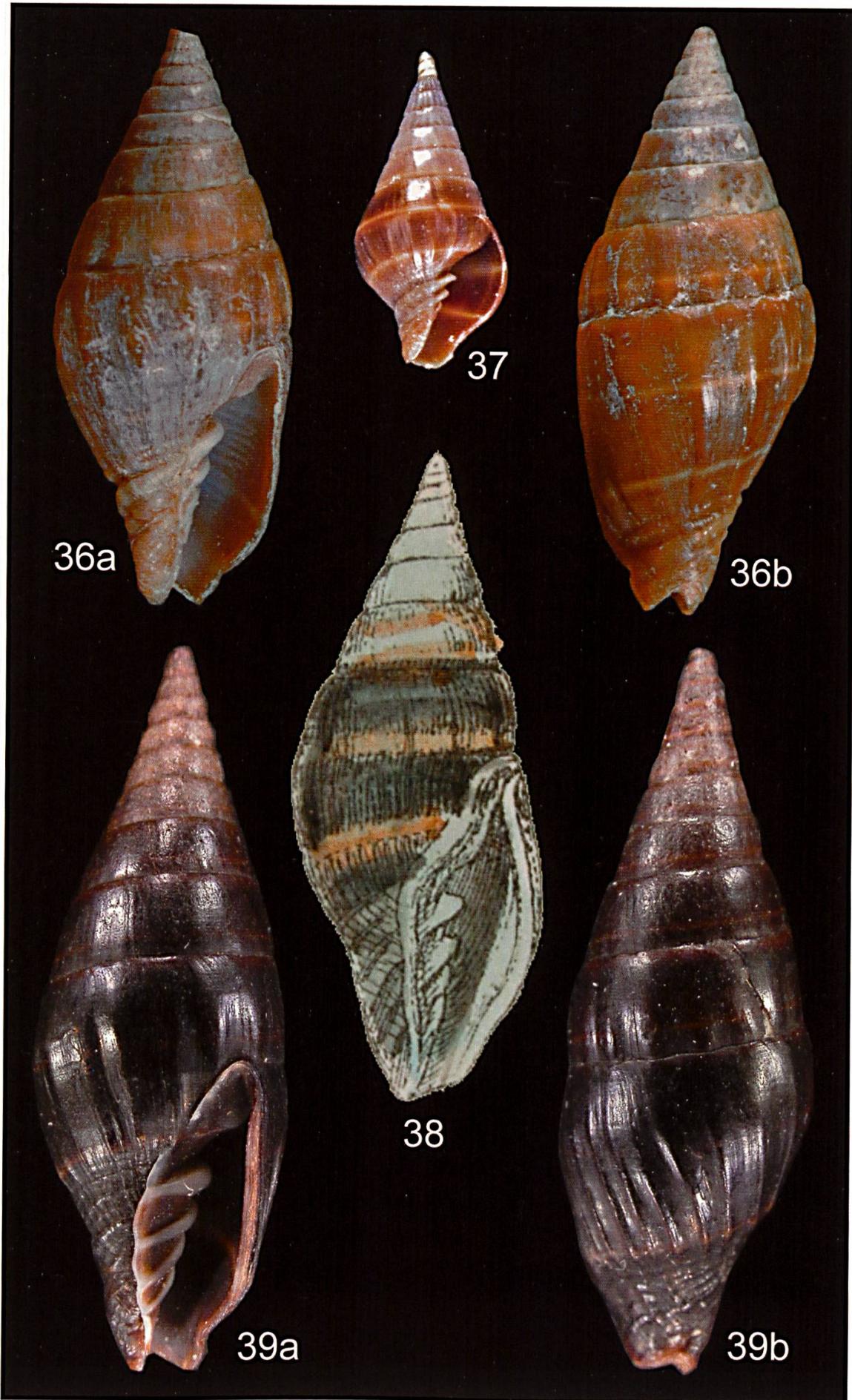


Plate 12: *Vexillum (Protoelongata) xerampelina* (MELVILL, 1895) comb. nov., all figures 3.5 x

Fig. 40: Holotype, Arabian Sea, Yemen, Aden, 18.8 mm, ex coll. E.R. Shopland; J.C. Melvill, NMW.1955.158.00429 (coll. Melvill-Tomlin).

Fig. 41: Specimen, Mozambique, Nacala Bay, taken Oct 2006 by snorkel in coral sand at 1–2 m, 17.5 mm, MH.

Fig. 42a–b: Specimen cf. *V. (Pr.) xerampelina* (MELVILL, 1895), Philippines, Cebu, Mactan Islands, collected May 1984 by shell nets, ex Ray Walker, 15.6 mm, NMBE 32379-2.

Fig. 43: Specimen cf. *V. (Pr.) xerampelina* (MELVILL, 1895), Philippines, Bohol Strait, collected Jul 1991 by shell nets, 15.7 mm, NMBE 32378-2.

Photos: Fig. 40 Harriet Wood (NMW), other photos Manfred Herrmann.

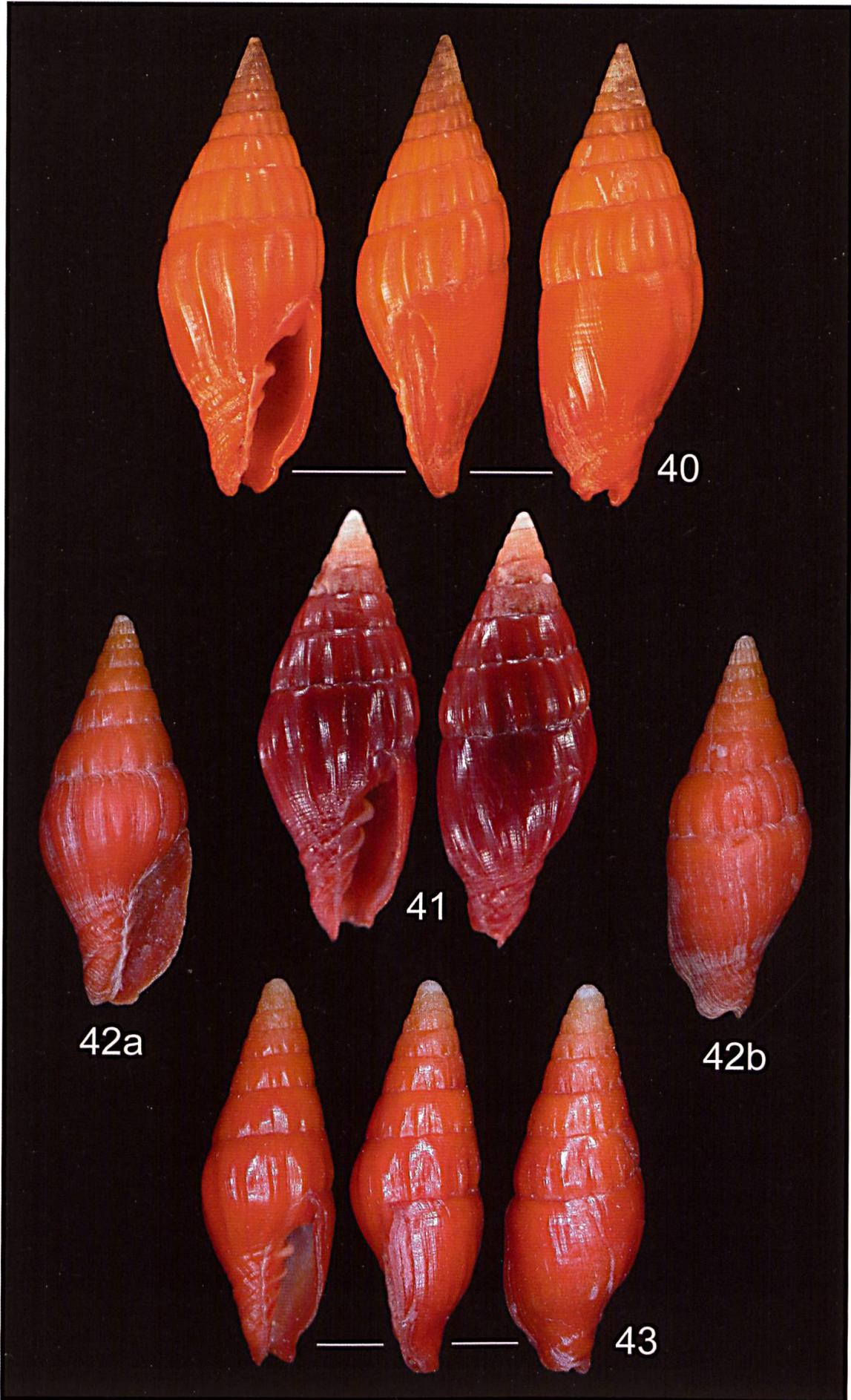


Plate 13: *Vexillum (Protoelongata) loyaltyense* (HERVIER, 1897) comb. nov., all figures 8 x

Fig. 44: Juvenile specimen, Philippines, Cebu, Mactan Island, Punta Engaño, 4.7 mm, GS.

Fig. 45a–b: Immature specimen, Philippines, Bohol, Balicasag Island, lumun lumun net 2006, 8.3 mm, MH.

Fig. 46: Lectotype, designated herein, type figure of *Mitra (Pusia) loyaltyensis* HERVIER, 1897, Loyalty Islands.

Fig. 47: Adult specimen, Philippines, Cebu, Mactan Island, Punta Engaño, lumun lumun net at 25–50 m, 10.3 mm, MH.

Photos: Manfred Herrmann.

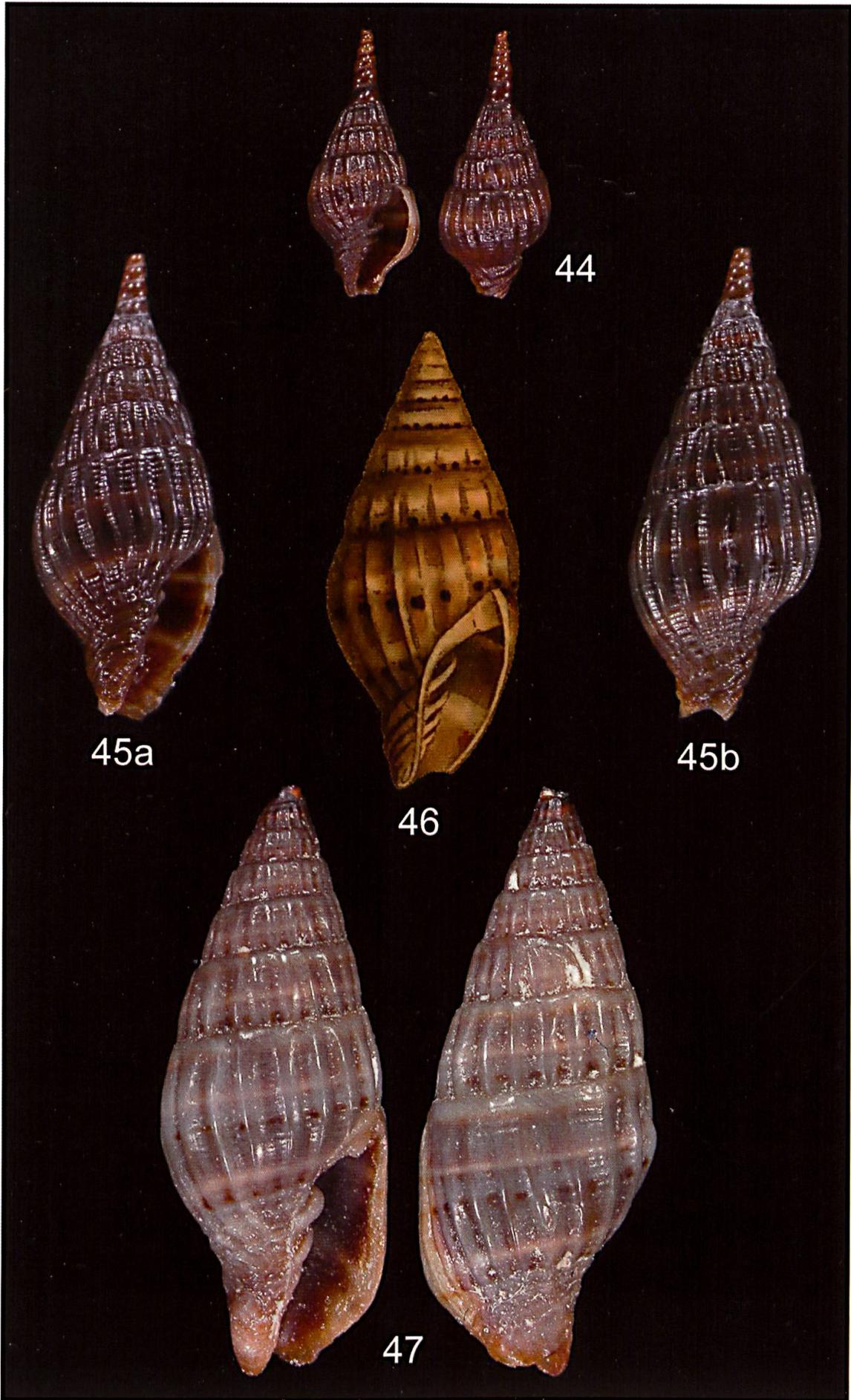


Plate 14: *Vexillum (Protoelongata) rubrotaeniatum* sp. nov., all figures 4 x

Fig. 48a–b: Paratype 9, Solomon Islands, Guadalcanal, Bonegi, collected Aug 1987 by F. Lorenz on rocks at night at 21 m, 13.8 mm, MH.

Fig. 49: Holotype, Papua New Guinea, New Ireland, Kavieng, Baudisson Bay, in rubble at 15–35 m, 15.0 mm, ex TB, NMBE 519550.

Fig. 50a–b: Paratype 18, Midway Island, Sand Island, dredged at 20–30 m Mar 1980 by P. Burgess, 16.0 mm, MH.

Fig. 51: Paratype 14, Marshall Islands, Kwajalein Atoll, Nell Island, on oceanside dropoff at 18 m, in dead coral rubble, 19.7 mm, SG.

Photos: Fig. 49 Ted Baer, other photos Manfred Herrmann.

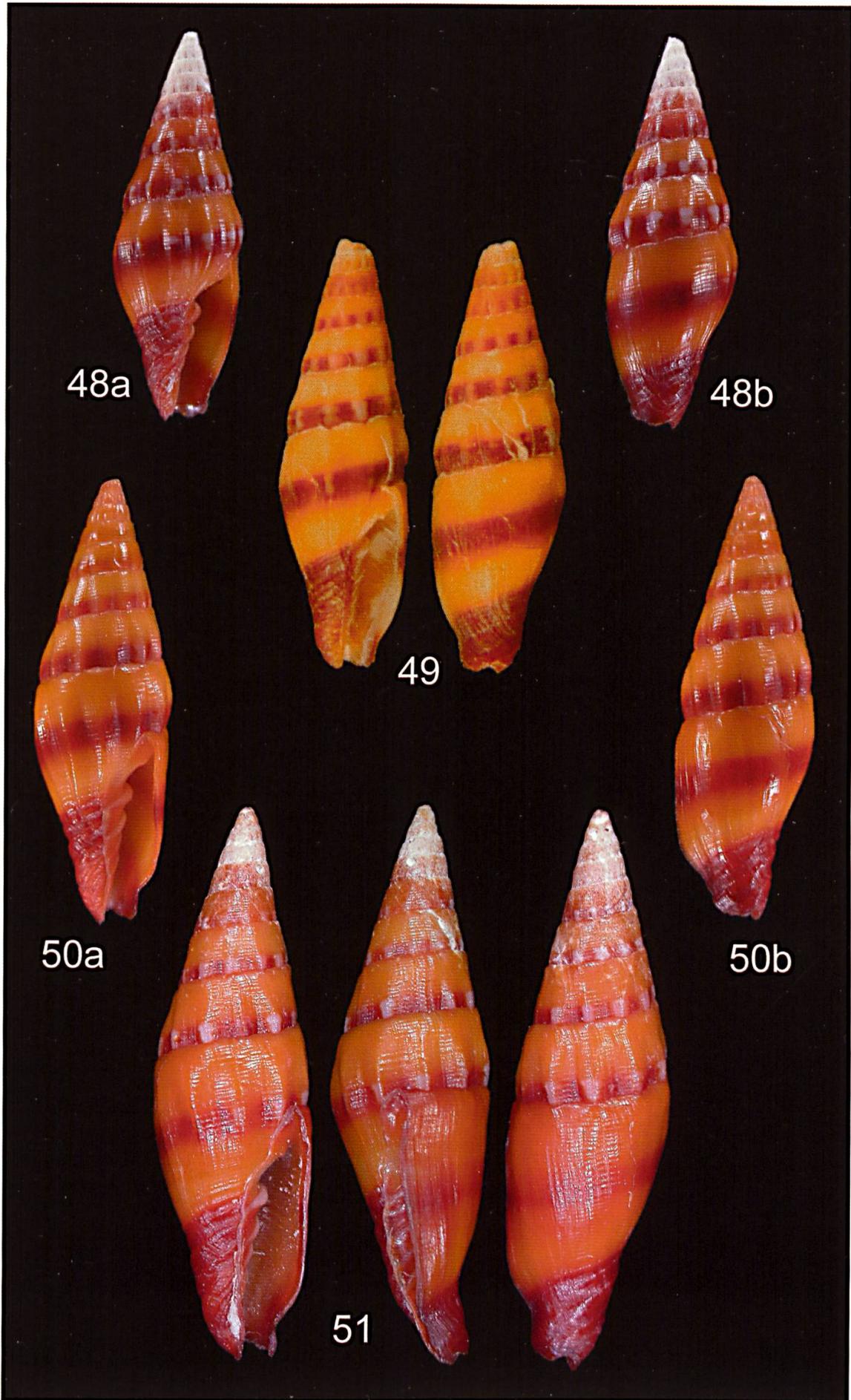


Plate 15: *Vexillum (Protoelongata) heleneae* sp. nov., all figures 4 x

Fig. 52a–b: Paratype 27, French Polynesia, Society Islands, Tahiti, Toahotu, 1–3 m under dead coral, small sponges and shells, collected Aug 2006 by Gilbert Busson; 17.2 mm, TB.

Fig. 53: Holotype, Guam, Orote Point, Orote Cliffs, collected 7 Jan 1978 by R. Salisbury under a pile of rocks at 18 m, 17.2 mm, MNHN 27071.

Fig. 54a–b: Paratype 17, Marshall Islands, Kwajalein, Carlson Island, collected 1990 by night scuba on oceanside dropoff at 15 m in dead coral, 16.9 mm, MH.

Fig. 55: comparison photo; left side: lectotype of *Mitra microzonias* LAMARCK, 1811, Indian Ocean (OD), 18.2 mm, MHNG 1108/12/1, right side: *V. (Pr.) heleneae* sp. nov., Marshall Islands, Kwajalein, collected 1968 in rubble at 6 m, 18.1 mm, RAS.

Photos: Fig. 53 Richard Salisbury, Fig. 55 Hans Turner, other photos Manfred Herrmann.



Plate 16: *Vexillum (Pusia)* species, all figures 7 x

Fig. 56: *Vexillum (Pusia) semicostatum* (ANTON, 1838), Lectotype (designated herein), 8.7 mm, MTD 3152.

Fig. 57: *Vexillum (Pusia) semicostatum* (ANTON, 1838), Indonesia, Sulawesi, Lembeh Island, collected 2005 by F. Lorenz, 7.0 mm, MH.

Fig. 58: Syntype 2/3 of *Vexillum (Pusia) semicostatum* (ANTON, 1838) = *Vexillum (Pusia) tusum* (REEVE, 1845), excluded from the type lot MTD 3152, 5.9 mm, MTD.

Fig. 59: Type figure of *Mitra tusa* REEVE, 1845, Philippines, Island of Mindoro, Puerto Galero.

Fig. 60: Syntype 3/3 of *Vexillum (Pusia) semicostatum* (ANTON, 1838) = *Vexillum (Pusia) tusum* (REEVE, 1845), excluded from the type lot MTD 3152, 7.4 mm, MTD.

Fig. 61: *Vexillum (Pusia) tusum* (REEVE, 1845), Philippines, Cebu, collected 2005, 8.1 mm, MH.

Photos: Figs 56, 58, 60 Katrin Schniebs (MTD), Figs 57a–b, 61 Manfred Herrmann.

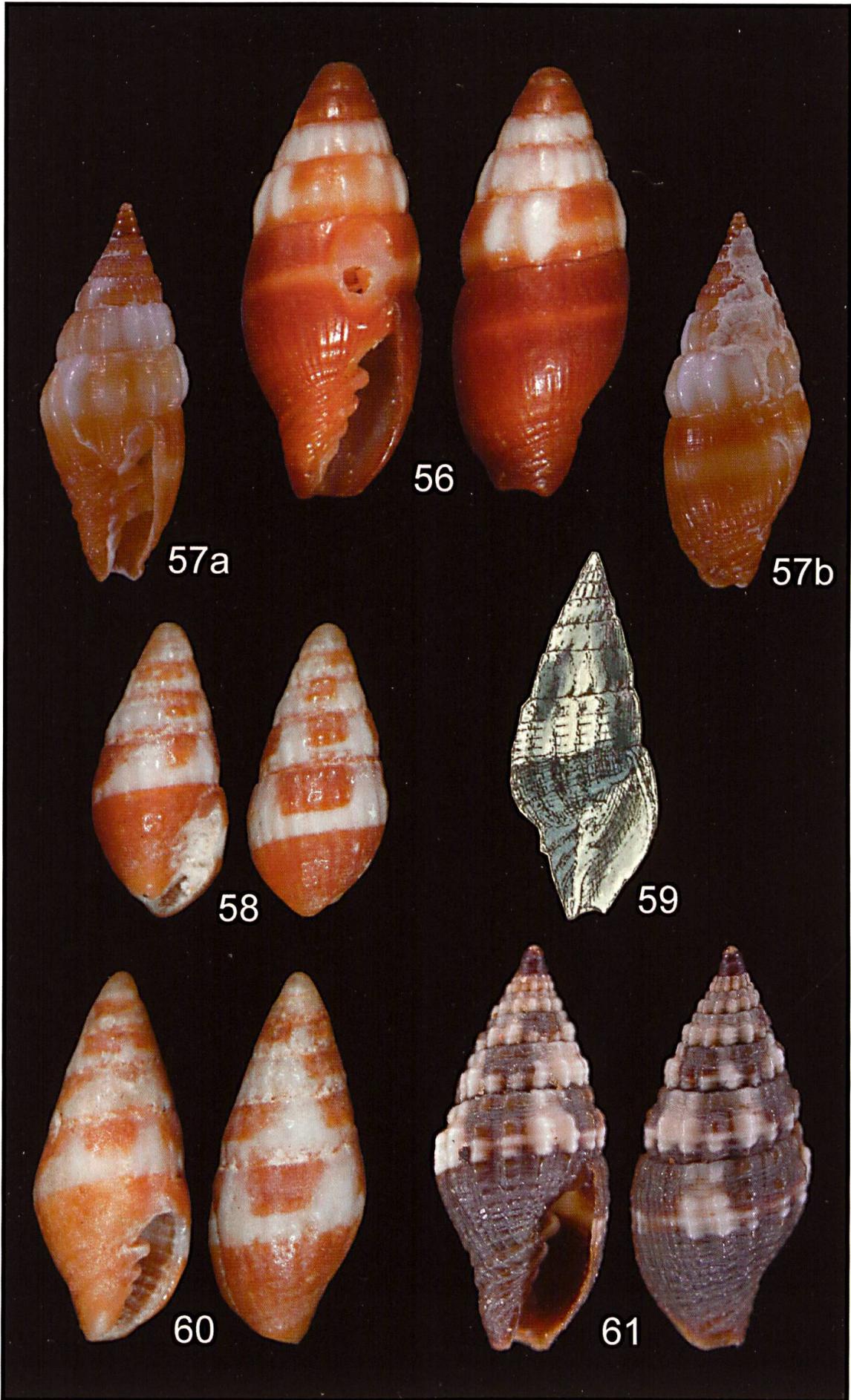


Plate 17: *Vexillum (Pusia) luigiraybaudii* POPPE, GUILLOT DE SUDUIRAUT & TAGARO, 2006, all figures 3.5 x

Fig. 62: Holotype, Philippines, Mactan Island, Punta Engaño, 60–150 m, 20.0 mm, NMP.

Fig. 63a–b: Specimen, Philippines, 20.6 mm, MH.

Fig. 64: Immature Specimen, Philippines, Bohol, Balicasag Island, lumun lumun net, 11.5 mm, MH.

Fig. 65a–b: Paratype 1, Philippines, Calituban Island, 23.4 mm, EGS.

Photos: Fig. 62 © Conchology, Inc., Fig. 65a–b E. Guillot de Suduiraut, other photos Manfred Herrmann.

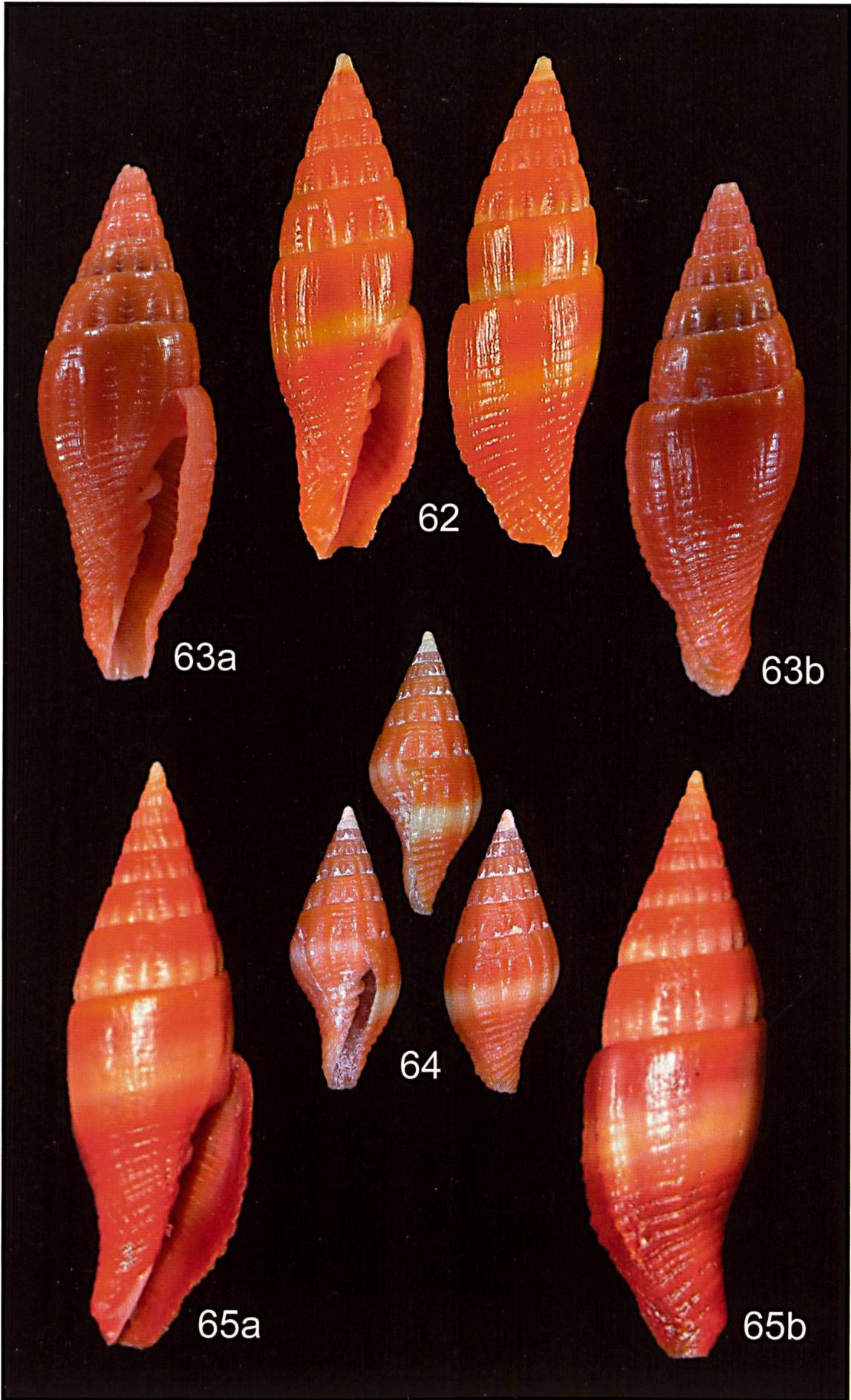


Plate 18: *Vexillum (Pusia) geronimae* POPPE, TAGARO & SALISBURY, 2009, all figures 5 x

Fig. 66: Holotype, Philippines, Palawan, Balabac Island, taken 2008 at 4 m by local fishermen, 17.4 mm, NMP.

Fig. 67a–b: Specimen, Philippines, Cebu, divers 15–20 m, 14.5 mm, MH.

Fig. 68: Specimen, Philippines, Cebu, Mactan Island, Punta Engaño, collected 2006 by tangle nets at 50–70 m on sandy coral rubble, 18.2 mm, MH.

Photos: Fig. 66 © Conchology, Inc., other photos Manfred Herrmann.

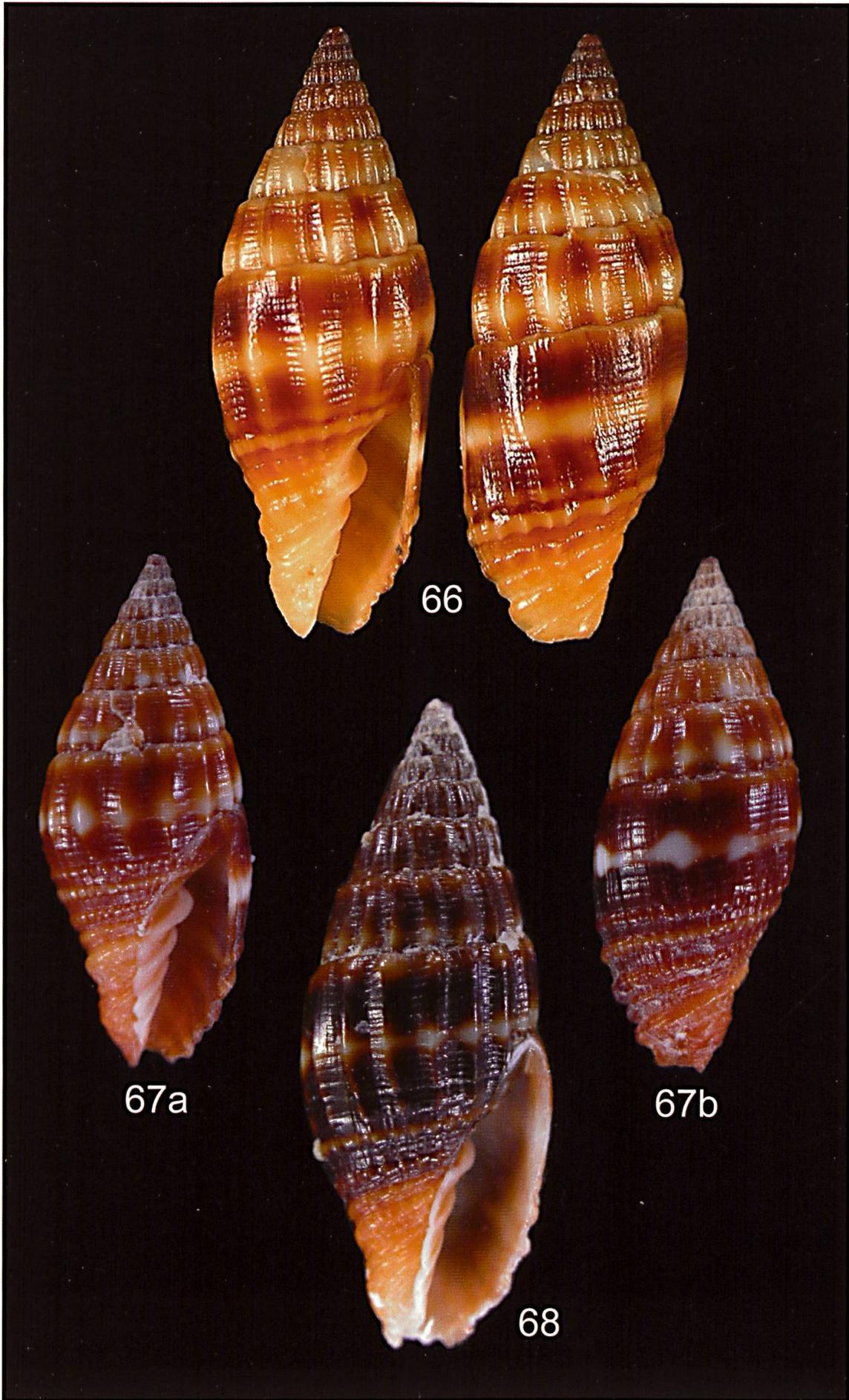


Plate 19: *Vexillum (Protoelongata)* species

Figs 69–71: species 1

Fig. 69: specimen, collected during the Atimo Vatae expedition (MNHN), south of Madagascar, 2010.

Figs 70–71: scaled 4 x; Specimens, Madagascar, Fort Dauphin, 11.5 mm x 4.9 mm and 11.3 mm x 4.9 mm, GS.

Figs 72–73: species 2, scaled 6 x;

Fig. 72: specimen, Papua New Guinea, West New Ireland, off Kavin Village, 32 m, in sand, collected 6 Nov 2002 by Sandro Gori, 10.4 mm x 4.3 mm, SG 30252.

Fig. 73: specimen, Indonesia, Sulawesi, Togian Islands, West Batudaka Island, 29–32 m, in grit from crevices along reef slope, collected by Peter Stahlschmidt Oct 2010, 8.4 mm x 3.6 mm, SMF.

Photos: Fig. 69 Bob Abela, Figs 70–71 Günter Stossier, Fig. 72 Sandro Gori, Fig. 73 Manfred Herrmann.

