



FIGURE 61

- a, *Rectopalicus ampullatus* sp. nov., ♂ holotype, 6.2 x 6.3 mm, Loyalty Islands, MUSORSTOM 6, stn DW 462, 200 m (MNHN-B 26782): dorsal view. Photo by P. LABOUE, IRD.
- b, *Exopalicus maculatus* (Edmondson, 1930), Makaha, Oahu, Hawaiian Islands, 6 m: dorsal view. Photo by J. HOOVER.
- c, *Neopalicus jukesii* (White, 1847), ♂ 6.0 x 7.1 mm, New Caledonia, LAGON, stn 702, 37 m (MNHN-B 26814): dorsal view.
- d, *Palicoides longimanus* (Miyake, 1936), ♂ 9.6 x 11.2 mm, New Caledonia, LAGON, stn 952, 16-17 m (MNHN-B 26794): dorsal view.
- e, *Palicoides whitei* (Miers, 1884), ♂ CL 14.5 mm, New Caledonia, LAGON, stn 748, 35 m (MNHN-B 26801).
- f, *Crossotonotus spinipes* (De Man, 1888), ♂ 36.9 x 43.3 mm, New Caledonia, 12 m (MNHN-B 26803).



INDEX

Family and genus names are given in capital letters, species names in italics. **Bold** family, genus and species names indicates that the taxa are treated in detail.

Page numbers in **bold** indicate the pages where the subject is treated in detail; page numbers in *bold italics* refer to identification keys, *italics* refer to illustrations.

- abdomen, terminology 442
acanthodactylus, *Pseudopalicus* 450; **451**;
452; 453; 457; 483; 588; 591; 602
acutifrons, *Palicus* 488; 522
affinis, *Palicus* 450
 affinities 593
alternatus, *Palicus* 450; 586
amadaibai, *Palicus* 455
amadaibai, *Pseudopalicus* 450; **451**; **455**;
 456; 586; 588; 590
ambonensis, *Parapalicus* 482; 487; **489**; **489**;
 491; 494; 498; 501; 505; 512; 516; 588; 592
amphiceros, *Rectopalicus* 483; 486; 534;
535; **538**; 539; 545; 588
ampullatus, *Rectopalicus* 534; **535**; **541**;
 543; 545; 547; 588; 604
angustus, *Palicus* 488
armatus, *Parapalicus* 487; **488**; **492**; 493;
 498; 508; 588; 591

bidentatus, *Palicus* 440; 517; 518
 biogeography 586
brevimana, *Manella* 570; 574; 578; 579
brevimanus, *Crossotonotus* 574

 carapace length 440
 carapace width 440
 carapace, terminology 441; 442
carinipes, *Cymopolia* 554
carinipes, *Palicus* 554; 557
caronii, *Cymopolia* 445
caronii, *Palicus* 439; 446; 450; 586
ceramensis, *Crossotonotus* 570; **571**; **578**;
 588
ceramensis, *Manella* 571; 578
clinodentatus, *Parapalicus* 487; **489**; **495**;
 496; 498; 518; 588; 591
compressipes, *Crossotonotus* 571
compressipes, *Crossotonotus* 569; 570;
571; **571**; 573; 579; 582; 588; 589
contractus, *Neopalicus* 549; **550**; **550**; 552;
 556; 557; 558; 586; 588; 589
contractus, *Palicus* 550
cortezii, *Palicus* 586
crisatipes, *Pleurophricus* 570; 582; **583**;
583; 584; 585; 588

 CROSSONOTUS 569
compressipes 571
 CROSSOTONOTINAE 440; 444; **445**; **568**; 593
Crossotonotus 439; 440; 445; 568; **569**; **569**; 583;
 585; 586; 593
brevimanus 574
ceramensis 570; **571**; **578**; 588
compressipes 569; 570; **571**; **571**; 573;
 579; 582; 588; 589
gardineri 574
lophocheir 570; **571**; **579**; 580; 584; 588
 sp. 574
spinipes 570; **571**; **574**; 576; 577; 579; 581;
 582; 583; 584; 585; 586; 588; 589; 592;
 604
taketomiensis 571; 573
 CROSSTONOTUS
taketomiensis 571
cursor, *Palicus* 488; 522; 586
 CYMOPOLIA 444
carinipes 554
caronii 445
cyrenae 469; 472
fisheri 469; 472
jukesii 548; 554
kyusyuensis 527
longimana 561
maculata 546
medipacifica 546; 547
oahuensis 455; 465
robusta 550; 553
serripes 473
whitei 558; 565
 CYMOPOLIIDAE 443
cyrenae, *Cymopolia* 469; 472
cyrenae, *Palicus* 450
cyrenae, *Pseudopalicus* 469

declivis, *Pseudopalicus* 450; **451**; 457; **458**;
 461; 482; 483; 588; 591
dentatus, *Palicus* 450; 586
denticulatus, *Parapalicus* 487; **489**; **499**;
 500; 502; 505; 518; 520; 588; 591
depressus, *Palicus* 488
 diet 592
 DORIPPIDAE 445

ecology 585

elaniticus, *Parapalicus* 487; **489**; **505**; 510;
512; 588; 591

EXOPALICUS 445; 446; **448**; **543**; 585; 586; 593
maculatus 543; 544; **545**; **546**; 547; 586;
588; 591; 592; 604

faxoni, *Palicus* 450; 586

fisheri, *Cymopolia* 469; 472

fisheri, *Palicus* 450; 469

fisheri, *Pseudopalicus* 469

floridanus, *Palicus* 488; 522

foliatus, *Paliculus* 526; **527**; **530**; 531; 588

fragilis, *Palicus* 586

gardineri, *Crossotonotus* 574

gardineri, *Manella* 570; 574; 577

glaber, *Pseudopalicus* 450; **451**; 457; **462**;
464; 588; 591; 602

gracilipes, *Palicus* 488; 522

gracilis, *Palicus* 488; 522; 586

granulatus, *Palicus* 445

habitat 585

hatusimaensis, *Palicus* 522; 527; 528

hatusimaensis, *Parapalicus* 527

HEXAPODIDAE 593

inanis, *Parapalicus* 487; **488**; 494; 498; **506**;
508; 512; 513; 588; 591

inermis, *Parapalicus* 487; **489**; 501; 502; 504;
588; 591

investigatoris, *Palicus* 469; 473

investigatoris, *Pseudopalicus* 450; **451**;
456; 458; 468; **469**; 470; 477; 479; 586;
588; 590; 602

jukesii, *Cymopolia* 548; 554

jukesii, *Neopalicus* 549; **550**; 551; 552; 553;
554; 556; 565; 586; 588; 589; 592; 604

jukesii, *Palicus* 550; 554

kyusyuensis, *Cymopolia* 527

kyusyuensis, *Paliculus* 525; 526; **527**; **527**;
529; 532; 533; 552; 586; 588; 591

kyusyuensis, *Palicus* 525; 527

longimana, *Cymopolia* 561

longimanus, *Palicoidea* 538; 560; **561**; **560**;
563; 567; 586; 588; 589; 592; 604

longimanus, *Palicus* 561

longirostris, *Manella* 585

longirostris, *Pleurophricus* 582; **583**; **585**;
588

lopchocheir, *Crossotonotus* 570; **571**; **579**;
580; 584; 588

lucasii, *Palicus* 450; 586

macromeles, *Pseudopalicus* 450; **451**; 479;
480; 482; 486; 586; 588; 590

maculata, *Cymopolia* 546

maculatus, *Exopalicus* 543; 544; 545; **546**;
547; 586; 588; 591; 592; 604

maculatus, *Palicus* 543; 546; 547

male first pleopod, terminology 442

MANELLA 439; 440; 568; 569; 570

brevimana 570; 574; 578; 579

ceramensis 571; 578

gardineri 570; 574; 577

longirostris 585

spinipes 574; 579

MANELLA, 585

marielae, *Parapalicus* 488; 517; 518

mating behavior 592

medipacifica, *Cymopolia* 546; 547

microfrons, *Palicoidea* 535; 538

microfrons, *Palicus* 535; 537

microphthalmus, *Parapalicus* 487; **489**;
509; 511; 514; 588; 591

MIROPALICUS 445; 446; **448**; 481; **520**; 526; 585
vietnamensis 483; 521; **522**; 524; 525; 527;
588; 592; 602

nanshaensis, *Parapalicus* 440; 487; **488**; 492;
508; **510**; 588

NEOPALICUS 440; 445; 447; **448**; **548**; 560; 585;
586; 593

contractus 549; **550**; **550**; 552; 556; 557;
558; 586; 588; 589

jukesii 549; **550**; 551; 552; 553; **554**; 556;
565; 586; 588; 589; 592; 604

oahuensis, *Cymopolia* 455; 465

oahuensis, *Palicus* 455; 465

oahuensis, *Pseudopalicus* 450; **451**; 458;
460; **465**; 479; 483; 588; 590; 602

obesus, *Palicus* 450; 586

P5, role of 592

PALICAE 444

PALICÉS 444

PALICI 444

PALICIDAE 439; **443**

PALICIDAE, affinities 445

PALICINAE 440; 444; **445**; **445**; 593

PALICOIDE 447

PALICOIDES 440; 445; **448**; 538; 549; **558**; 585;
586; 593

- longimanus* 538; 560; **561**; **561**; 563; 567;
 586; 588; 589; 592; 604
microfrons 535; 538
ternatensis 563; 565; 567
whitei 538; 560; **561**; 563; 564; **565**; 586;
 588; 589; 592; 604
PALICULUS 445; 446; **448**; **525**; 585; 586
foliatus 526; **527**; **530**; **531**; 588
kyusyuensis 525; 526; **527**; **527**; 529; 532;
 533; 552; 586; 588; 591
sp. 526; **527**; **532**; 533; 588
PALICUS 439; 440; 444; 445; 446; 450; 488; 522;
 523; 585
acutifrons 488; 522
affinis 450
alternatus 450; 586
amadaibai 455
angustus 488
bidentatus 440; 517; 518
carinipes 554; 557
caronii 439; 446; 450; 586
contractus 550
cortezi 586
cursor 488; 522; 586
cyrenae 450
dentatus 450; 586
depressus 488
faxoni 450; 586
fisheri 450; 469
floridanus 488; 522
fragilis 586
gracilipes 488; 522
gracilis 488; 522; 586
granulatus 445
hatusimaensis 522; 527; 528
investigatoris 469; 473
jukesii 550; 554
kyusyuensis 525; 527
longimanus 561
lucasii 586
maculatus 543; 546; 547
microfrons 535; 537
oahuensis 455; 465
obesus 450; 586
robustus 550
serripes 448; 473
sexlobatus 467
sica 488
trituberculatus 440; 486; 517
tuberculatus 450; 546; 547
unidentatus 519
velerae 450
vietnamensis 520; 522
whitei 565
woodmasoni 535
zonatus 586
PARAPALICUS 440; 445; 446; **448**; 450; 481;
486; 522; 523; 526; 564; 585; 586
ambonensis 482; 487; **489**; **489**; 491; 494;
 498; 501; 505; 512; 516; 588; 592
armatus 487; **488**; **492**; 493; 498; 508; 588;
 591
clinodentatus 487; **489**; **495**; 496; 498; 518;
 588; 591
denticulatus 487; **489**; **499**; 500; 502; 505;
 518; 520; 588; 591
elaniticus 487; **489**; **505**; 510; 512; 588;
 591
hatusimaensis 527
inanis 487; **488**; 494; 498; **506**; 508; 512;
 513; 588; 591
inermis 487; **489**; 501; **502**; 502; 504; 588;
 591
marielae 488; 517; 518
microphthalmus 487; **489**; **509**; 511; 514;
 588; 591
nanshaensis 440; 487; **488**; 492; 508; **510**;
 588
piruensis 487; **489**; **512**; 513; 514; 588; 592
trispiralis 487; **489**; 492; 494; 510; 512;
513; 515; 588; 592
trituberculatus 487; 488; **489**; 502; 514;
517; 518; 520; 588; 592
unidentatus 482; 487; 488; **489**; 498; 502;
 514; 518; **519**; 588; 592
vietnamensis 522
PARAPLEUROPHRYCOIDES 439; 440; 568; 569
roseus 440; 569
pictus, *Pseudopalicus* 450; **451**; **476**; 478;
 479; 588; 590; 602
piruensis, *Parapalicus* 487; **489**; **512**; 513;
 514; 588; 592
PLEUROPHRICUS 439; 440; 445; 568; **569**; **582**;
 585; 586; 593
cristatipes 570; 582; **583**; **583**; 584; 585;
 588
longirostris 582; **583**; **585**; 588
spinipes 569; 570; 574; 577
PLEUROPHRYCOIDES 439
PSEUDOPALICUS 440; 445; 446; **448**; **448**; 481;
 516; 522; 527; 585; 586
acanthodactylus 450; **451**; **452**; 453; 457;
 483; 588; 591; 602
amadaibai 450; **451**; **455**; 456; 457; 588;
 590
cyrenae 469
declivis 450; **451**; 457; **458**; 461; 482; 483;
 588; 591

- fisheri* 469
glaber 450; **451**; 457; **462**; 464; 588; 591;
 602
investigatoris 450; **451**; 456; 458; 468;
469; 470; 477; 479; 586; 588; 590; 602
macromeles 450; **451**; 479; **480**; 482; 486;
 586; 588; 590
oahuensis 450; **451**; 456; 458; 460; **465**;
 479; 483; 588; 590; 602
pictus 450; **451**; **476**; 478; 479; 588; 590;
 602
serripes 450; **451**; 456; 468; 470; 471; **473**;
 475; 477; 479; 482; 586; 588; 590; 592
sexlobatus 450; **451**; 460; **467**; 588; 590
 sp. 450; **474**; 475; 588
undulatus 450; **451**; 479; **483**; 485; 588; 590
woodmasoni 535; 537
- RECTOPALICUS** 445; 446; **448**; 527; **533**; 544;
 585; 586
amphicerus 483; 486; 534; **535**; **538**; 539;
 545; 588
ampullatus 534; **535**; **541**; 543; 545; 547;
 588; 604
woodmasoni 468; 533; 534; **535**; **535**; 536;
 540; 545; 588; 590
- RETROPLUMIDAE 593
robusta, *Cymopolia* 550; 553
robustus, *Palicus* 550
roseus, *Parapleurophrycoides* 440; 569
- serripes*, *Cymopolia* 473
serripes, *Palicus* 448; 473
serripes*, *Pseudopalicus 450; **451**; 456; 468;
 470; 471; **473**; 475; 477; 479; 482; 586;
 588; 590; 592
sexlobatus, *Palicus* 467
sexlobatus*, *Pseudopalicus 450; **451**; 460;
467; 588; 590
 sexual dimorphism 592
sica, *Palicus* 488
spinipes*, *Crossotonotus 570; **571**; **574**; 576;
 577; 579; 581; 582; 583; 584; 585; 586;
 588; 592; 604
- spinipes*, *Manella* 574; 579
spinipes, *Pleurophricus* 569; 570; 574; 577
- taketomiensis*, *Crossotonotus* 571; 573
taketomiensis, *Crosstonotus* 571
 terminology
 abdomen 442
 carapace 441; 442
 male first pleopod 442
 peropods 441
- ternatensis*, *Palicoides* 563; 565; 567
trispiralis*, *Parapalicus 487; **489**; 492; 494;
 510; 512; **513**; 515; 588; 592
trituberculatus, *Palicus* 440; 486; 517
trituberculatus*, *Parapalicus 487; 488; **489**;
 502; 514; **517**; 518; 520; 588; 592
tuberculatus, *Palicus* 450; 546; 547
- undulatus*, *Pseudopalicus*** 450; **451**; 479;
483; 485; 588; 590
unidentatus, *Palicus* 519
unidentatus*, *Parapalicus 482; 487; 488; **489**;
 498; 502; 514; 518; **519**; 588; 592
- velerae*, *Palicus* 450
vietnamensis*, *Miropalicus 483; 521; **522**;
 524; 525; 527; 588; 592; 602
vietnamensis, *Palicus* 520; 522
vietnamensis, *Parapalicus* 522
- whitei*, *Cymopolia* 558; 565
whitei*, *Palicoides 538; 560; **561**; 563; 564;
565; 586; 588; 589; 592; 604
whitei, *Palicus* 565
woodmasoni, *Palicus* 535
woodmasoni, *Pseudopalicus* 535; 537
woodmasoni*, *Rectopalicus 468; 533; 534;
535; **535**; 536; 540; 545; 588; 590
- zonatus*, *Palicus* 586

ADDENDUM

Specimens of Palicidae collected in Fiji by the BORDAU 1 and SUVA 2 expeditions were examined while this paper was in press. The specimens are listed below. Seven of the ten species listed (printed in bold) are new records for Fiji.

Miropalicus vietnamensis (Zarenkov, 1968): BORDAU 1, stn CP 1411, 16°05'S, 179°28'W, 390-403 m: 1 juv. ♀ (MNHN-B 27650). — Stn CP 1434, 17°11'S, 178°41'W, 400-401 m: 1 ♂ (MNHN-B 27651). — Stn CP 1481, 20°57'S, 178°45'W, 441-506 m: 1 juv. ♀ (MNHN-B 27652).

Palicoides whitei (Miers, 1884): SUVA 2, stn DW 62, Viti Levu, W lagoon, 17°49'S, 177°12.9'E, 32 m: 1 juv. ♀ (MNHN-B 27656).

Paliculus kyusyuensis (Yokoya, 1933): BORDAU 1, stn DW 1432, 17°20'S, 178°44'W, 477-493 m: 1 ♀ (MNHN-B 27653). — Stn CP 1507, 18°09'S, 178°38'W, 294-300 m: 1 ♀ (MNHN-B 27654).

Parapalicus ambonensis Moosa & Serène, 1981: BORDAU 1, stn DW 1494, 18°55'S, 178°29'W, 240-319 m: 1 ♂ (MNHN-B 27640). — Stn DW 1498, 18°41'S, 178°28'W, 300-307 m: 2 ♀ (MNHN-B 27641). — Stn CP 1507, 18°09'S, 178°38'W, 294-300 m: 1 ♂; 5 ♀ (MNHN-B 27642).

Parapalicus armatus Castro, 2000: BORDAU 1, stn CP 1475, 19°41'S, 178°11'W, 321-424 m: 1 ♀ (MNHN-B 27643).

Parapalicus clinodentatus Castro, 2000: BORDAU 1, stn CP 1445, 17°10'S, 178°42'W, 350-385 m: 6 ♂ (1 juv.); 3 ♀ (1 juv.) (MNHN-B 27644). — Stn CP 1446, 17°11'S, 178°42'W, 350-367 m: 2 juv. ♀ (MNHN-B 27645). — Stn CP 1500, 18°42'S, 178°26'W, 366-389 m: 2 ♂; 5 ♀ (MNHN-B 27646). — Stn CP 1501, 18°40'S, 178°30'W, 350-357 m: 5 ♂; 8 ♀ (2 juv.) (MNHN-B 27647).

Parapalicus inermis Castro, 2000: BORDAU 1, stn CP 1404, 16°40'S, 179°36'E, 180 m: 2 ♂; 4 ♀ (MNHN-B 27648). — Stn CP 1405, 16°39'S, 179°36'E, 180 m: 1 juv. ♀ (MNHN-B 27649).

Pseudopalicus declivis Castro, 2000: BORDAU 1, stn CP 1506, 18°09'S, 178°37'W, 294-300 m: 1 ♂; 1 juv. ♀ (MNHN-B 27638).

Pseudopalicus investigatoris (Alcock, 1900): BORDAU 1, stn DW 1473, 19°43'S, 178°10'W, 270-288 m: 1 juv. ♀ (MNHN-B 27639).

Pseudopalicus serripes (Alcock & Anderson, 1895): SUVA 2, stn CP 45, 17°51.6'S, 177°13.3'E, 35 m: 1 juv. ♀ (MNHN-B 27655).