ຄູ່ມືພາກສະໜາມ
ປາໃນອ່າງແມ່ນ້ຳຂອງປະເທດລາວ

Field Guide to

Fishes of the Mekong Basin of Laos

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Field Guide to

Fishes of the Mekong Basin of Laos




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ພາກສະເໜີ

ປະເທດລາວແມ່ນສ່ວນໜຶ່ງຂອງຈຸດສຸມຊີວະນາໆພັນອິນໂດ - ມຽນມາ; ເຊິ່ງເປັນໜຶ່ງໃນຈຳນວນ 34 ຈຸດສຸມຊີວະນາໆພັນຂອງໂລກທີ່ຖືກໄພຂົ່ມຂູ່. ອ່າງແມ່ນ້ຳຂອງໃນປະເທດລາວມີລັກສະນະພູມສັນຖານທີ່ມີນ້ຳໄຫຼແຮງ ແລະ ມີແມ່ນ້ຳສາຂາມາກມາຍ, ມີເນື້ອທີ່ 202,000 km^2; ເຊິ່ງກວມເອົາປະມານ 25% ຂອງເນື້ອທີ່ທັງໝົດຂອງປະເທດ ແລະ 35% ຂອງການໄຫຼເຂົ້າອ່າງແມ່ນ້ຳຂອງໃນແຕ່ລະປີ. ປາຫຼາຍກ່ວາ 490 ຊະນິດ (ລວມທັງ 22 ຊະນິດຕ່າງຖິ່ນ) ທີ່ຮູ້ກັນດີໃນພື້ນທີ່ນີ້. ນອກຈາກນີ້ຍັງສາມາດຄົ້ນພົບສາຍພັນປາທີ່ຍັງບໍ່ຮູ້ໄດ້ອີກ, ຖ້າຫາກວ່ານັກຊ່ຽວຊານກ່ຽວກັບປາທຳການຄົ້ນຄວ້າຫາປາເຫຼົ່ານັ້ນ.

ຄວາມພະຍາຍາມຂອງພວກເຮົາໃນໂຄງການອະນຸລັກຄວາມຫຼາກຫຼາຍຂອງປາ (2006-2015) ໂດຍການຮ່ວມມືກັບມູນນິທິສິ່ງແວດລ້ອມທຳມະຊາດນາກາໂອ໊ະ Nagao (NEF) ໄດ້ຊຸກຍູ້ການຄົ້ນຄວ້າໃນທ້ອງຖິ່ນຂອງລາວໂດຍໃຫ້ການສະໜັບສະໜູນທາງດ້ານເຕັກນິກ ແລະ ການເງິນໃນໄລຍະຍາວ ສຳລັບການສຳຫຼວດພາກສະໜາມຢ່າງກວ້າງຂວາງ; ຊຶ່ງເຮັດໃຫ້ພວກເຮົາສາມາດເກັບກຳໄດ້ຕົວຢ່າງປາຈຳນວນຫຼວງຫຼາຍ, ພ້ອມກັນນັ້ນຍັງໄດ້ສ້າງສະຖານທີ່ອຳນວຍຄວາມສະດວກສຳລັບການສຶກສາກ່ຽວກັບປາວິທະຍາ ແລະ ຄວາມຫຼາກຫຼາຍຂອງປາທີ່ມະຫາວິທະຍາໄລແຫ່ງຊາດ. ປັດຈຸບັນ ສິ່ງອຳນວຍຄວາມສະດວກດັ່ງກ່າວນັ້ນໄດ້ຖືກນຳໃຊ້ເປັນຢ່າງດີເຂົ້າໃນການຮຽນ-ການສອນຂອງພະນັກງານ ແລະ ນັກສຶກສາມະຫາວິທະຍາໄລແຫ່ງຊາດ.

"ຄູ່ມືພາກສະໜາມປາ ໃນອ່າງແມ່ນ້ຳຂອງປະເທດລາວ" ມີຈຸດປະສົງເພື່ອພັດທະນາການປູກຈິດສຳນຶກກ່ຽວກັບການຈັດສັນຄຸ້ມຄອງ, ການອະນຸລັກ ແລະ ເພີ້ມປະສິດທິພາບ ດ້ານການອະນຸລັກໃນໝູ່ປະຊາຊົນທ້ອງຖິ່ນ. ພວກເຮົາໄດ້ຮວບຮວມປາຈຳນວນ 239 ຊະນິດທີ່ເກັບກຳ ແລະ ບັນທຶກຈາກແມ່ນ້ຳຂອງ, ແມ່ນ້ຳສາຂາ, ຫ້ວຍ, ໜອງ, ຄອງ, ບຶງ ແລະ ອື່ນໆໃນອ່າງແມ່ນ້ຳຂອງ.

ພວກເຮົາຫວັງວ່າຄູ່ມືພາກສະໜາມນີ້ຈະເປັນປະໂຫຍດຕໍ່ຜູ້ອ່ານທຸກຄົນ, ຊຶ່ງລວມທັງນັກຮຽນ, ນັກສຶກສາ, ຄູອາຈານ, ນັກຄົ້ນຄວ້າ ແລະ ເຈົ້າໜ້າທີ່ທ້ອງຖິ່ນກ່ຽວກັບການປະມົງ ແລະ ການອະນຸລັກທຳມະຊາດ.

Introduction

Laos is a part of Indo-Burma biodiversity hotspot that is known as one of the Earth's 34 threatened biodiversity hotspots. The Mekong River Basin in Laos is topographically characterized in having a lot of rapids and mountainous tributaries, encompasses 202,000 km^2 occupying about 25% of total area and 35% of total annual flow of the Mekong basin. More than about 490 fish species (including about 22 exotic species) are known to date from the area. Further unrecognized fish species could be discovered if ichthyologists search for them.

Our endeavor, a fish diversity conservation project (2006–2015) in collaboration with Nagao Natural Environment Foundation (NEF) has been encouraging local researchers in Laos through long-term technical and financial support for conducting extensive field survey. We could obtain a tremendous number of fish specimens from the field, and create a facility for study of ichthyology and fish diversity at National University of Laos. The facility is now well-utilized by teaching staff and students of the university.

"Field Guide to Fishes of the Mekong Basin of Laos" aims to develop management and conservation awareness, and to advance conservation performance among the local people. It covers 239 fish species, which were collected and recorded by ourselves from the various habitats including main and small streams, canals, reservoirs, marshes in the Mekong Basin of Laos.

We hope that this field guide is useful to all the readers including students, educators, teachers, researchers and local officers regarding fisheries and nature conservation.

ຊື່ຂອງປາໃນປື້ມຫົວນີ້:

Rainboth ໄດ້ພິມປື້ມກ່ຽວກັບ “ປາແມ່ນ້ຳຂອງໃນກຳປູເຈຍ” ໃນປີ 1996 ແລະ Kottelat ໄດ້ພິມກ່ຽວກັບ “ປາຂອງລາວ” ໃນປີ 2001. ຕັ້ງແຕ່ນັ້ນມາ, ໄດ້ມີການສຶກສາອະນຸກົມວິຖານກ່ຽວກັບປາກັນຢ່າງຫຼວງຫຼາຍໃນພາກພື້ນລຸ່ມແມ່ນ້ຳຂອງ ແລະ ໄດ້ມີການບັນທຶກຊະນິດໃໝ່ໆ ແລະ / ຫຼື ພັນລະນາຈົນມາຮອດປະຈຸບັນ. ຍິ່ງໄປກວ່ານັ້ນ, ຈຳນວນຊະນິດພັນໄດ້ຖືກທົບທວນສະຖານະພາບທາງດ້ານອະນຸກົມວິຖານ. ດ້ວຍເຫດນັ້ນ, ຊື່ວິທະຍາສາຂອງຫຼາຍຊະນິດຈຶ່ງໄດ້ຖືກປ່ຽນແປງເລື້ອຍໆ. ຜົນງານຫຼ້າສຸດຂອງ Kottelat (2013) ກ່ຽວກັບລະບົບການຕັ້ງຊື່ຂອງປານ້ຳຈືດໃນອາຊີຕາເວັນອອກສ່ຽງໃຕ້ໄດ້ຄວບຄຸມເກືອບທຸກຊະນິດທີ່ເກີດຂື້ນໃນພາກພື້ນ. ພວກເຮົາຮັບຮູ້ວ່າ ຈຳນວນຊະນິດພັນ ແລະ ກຸ່ມແມ່ນຍັງມີຄວາມຂັດແຍ້ງທາງດ້ານອະນຸກົມວິຖານ ຫຼື ການຕັ້ງຊື່. “ປື້ມຄູ່ມືພາກສະໜາມກ່ຽວກັບປາໃນອ່າງແມ່ນ້ຳຂອງປະເທດລາວ” ນີ້ໄດ້ຮັບຮອງເອົາຊື່ວິທະຍາສາດຂອງປາ ໃນບັນຊີລາຍຊື່ຂອງປາ(Catalog of fishes), ເຊິ່ງເປັນເວບໄຊທ໌ທີ່ຈັດການໂດຍ ສະຖາບັນວິທະຍາສາດແຄລີຟໍເນຍ(2016). ຢ່າງໃດກໍດີຊື່ຂອງປາທີ່ເປັນພາສາລາວຍັງບໍ່ໄດ້ມາດຕະຖານເທື່ອ. ດັ່ງນັ້ນ, ຊື່ຂອງປາໃນພາສາລາວທີ່ເຫັນໃນປື້ມຫົວນີ້ຍັງຄົງເປັນ "ຊື່ຕາມມາດຕະ ຖານຂອງປາໃນປະເທດລາວ".

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Eschmeyer, W.N., R. Frick, and R. Van Der Laan (eds). CATALOG OF FISHES: GEENERA, SPECIES, REFERENCES. Electronic version accessed 31 March 2017.

Kottelat, M. (2013) The fishes of the inland waters of Southeast Asia: a catalogue and core bibliography of the fishes known to occur in freshwaters, mangroves and estuaries in the Raffles Bulletin of Zoology, No. 27: 1-663.

Kottelat, M. (2001) The fishes of Laos. WHT Publications, Colombo. 198 pages, 48 plates.

Rainboth, W.J. (1996) FAO species identification field guide of fishery purposes. Fishes of the Cambodian Mekong. FAO. Rome, 265 pp.

Fish name in this book

Rainboth published "Fishes of the Cambodian Mekong" in 1996. After that, Kottelat published "The Fishes of Laos" in 2001. Since then, tremendous number of taxonomical studies on fishes have been made in the Mekong region, and various species have been newly recorded and/or described to date. Moreover, a number of species have been reviewed in their taxonomical status. As a result, the scientific names of a number of species have been changed over and over again. A recent work of Kottelat (2013) about nomenclature of Southeast Asian inland fishes covers almost all the species occur in the region. We recognized that a number of species and groups are still in taxonomical or nomenclatural dispute. This "Field Guide to Fishes of the Mekong Basin of Laos" adopts scientific names of fishes in Catalog of Fishes, a website managed by California Academy of Science (2016). Fish names in Lao language have not been standardized yet. So, the names of fishes in Lao seen in this book are still merely the 'common names of fishes in Laos'.

References

Eschmeyer, W.N., R. Frick, and R. Van Der Laan (eds). CATALOG OF FISHES: GEENERA, SPECIES, REFERENCES. Electronic version accessed 31 March 2017.

Kottelat, M. (2013) The fishes of the inland waters of Southeast Asia: a catalogue and core bibliography of the fishes known to occur in freshwaters, mangroves and estuaries in the Raffles Bulletin of Zoology, No. 27: 1-663.

Kottelat, M. (2001) The fishes of Laos. WHT Publications, Colombo. 198 pages, 48 plates.

Rainboth, W.J. (1996) FAO species identification field guide of fishery purposes. Fishes of the Cambodian Mekong. FAO. Rome, 265 pp.

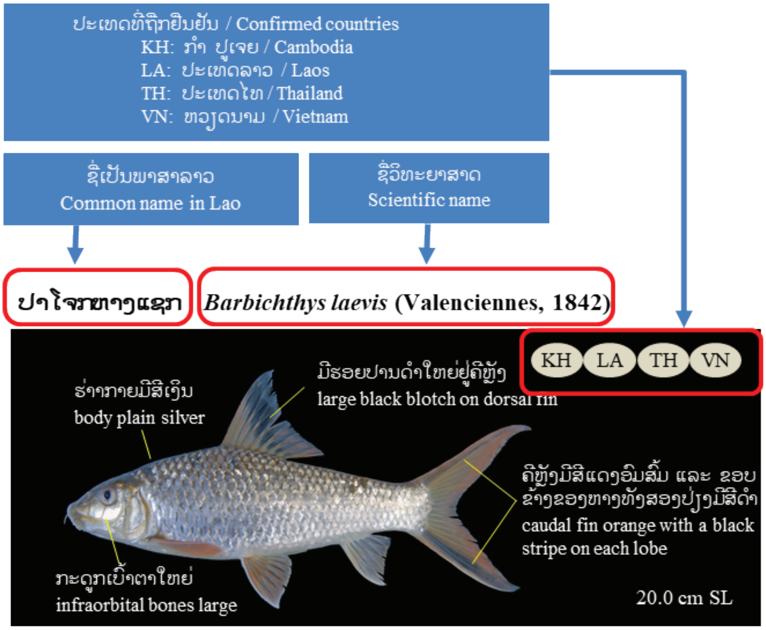
ວິທີການນຳໃຊ້ປື້ມຫົວນີ້:

ຄູ່ມືພາກສະໜາມກ່ຽວກັບປາໃນແມ່ນ້ຳຂອງໃນປະເທດລາວສ່ວນໃຫຍ່ແມ່ນປະກອບດ້ວຍຮູບຖ່າຍຂອງຕົວຢ່າງປາທີ່ມີຄຳອະທິບາຍສັ້ນໆ. ໃນພາກທີ 1, ຈະອະທິບາຍຊື່ຂອງພາກສ່ວນຕ່າງໆຂອງຮ່າງກາຍປາ, ວິທີການນັບ ແລະ ວັດແທກຮ່າງກາຍ. ພາກທີ 2 ແມ່ນ ເຄື່ອງມືຄົ້ນຫາປາ ທີ່ຊ່ວຍໃຫ້ຜູ້ໃຊ້ທີ່ບໍ່ຄຸ້ນເຄີຍກັບອະນຸກົມວິທານຂອງປາ. ຜູ້ນຳໃຊ້ຫາປາ ຫລືປາທີ່ຄ້າຍຄືກັນທີ່ພວກເຂົາກຳລັງຊອກຫາຈາກຮູບທີ່ໄດ້ຮັບ ແລະ ສືບຄົ້ນຕໍ່ໄປໜ້າ ຕ່າງໆຂອງພາກທີ 3; ຊຶ່ງພາກທີ 3 ຈະໃຫ້ຮູບໃຫຍ່ຂອງແຕ່ລະຊະນິດໂດຍມີຄຳອະທິບາຍສັ້ນໆສຳລັບການລະບຸຕົວຕົນຂອງປາ.

How to use this book

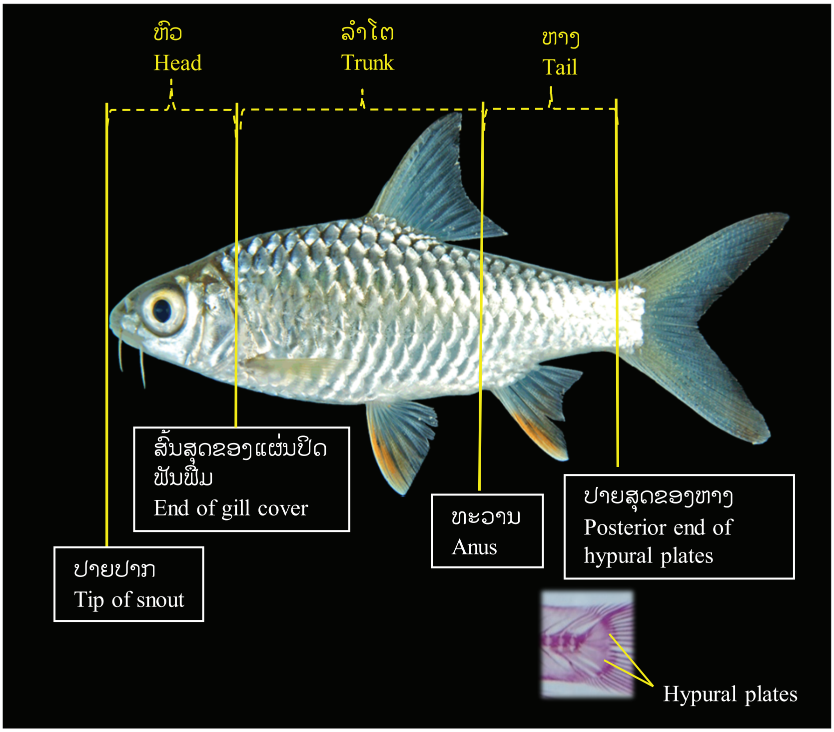
"Field Guide to Fishes of the Mekong Basin of Laos" is mainly composed of photographs of fish specimens with brief explanations. In the Section1, names of fish body regions and parts, and the methods of counting and measuring are explained. Section 2 is the 'Fish Search Aid' that helps users who are unfamiliar with fish taxonomy. Users find the fish or similar fish that they are searching for from photographs given, and proceeds to the pages of Section 3. Section 3 gives larger photographs of each species with brief explanations for identification.

Some fish photographs in this book are diverted from the specimen photographs of Inland Fisheries Research and Development Institute, Fisheries Administration, Cambodia (indicated as IFReDI-xxxx).



ຕອນທີ 1: ຮ່າງກາຍປາ
Section 1: Fish Body

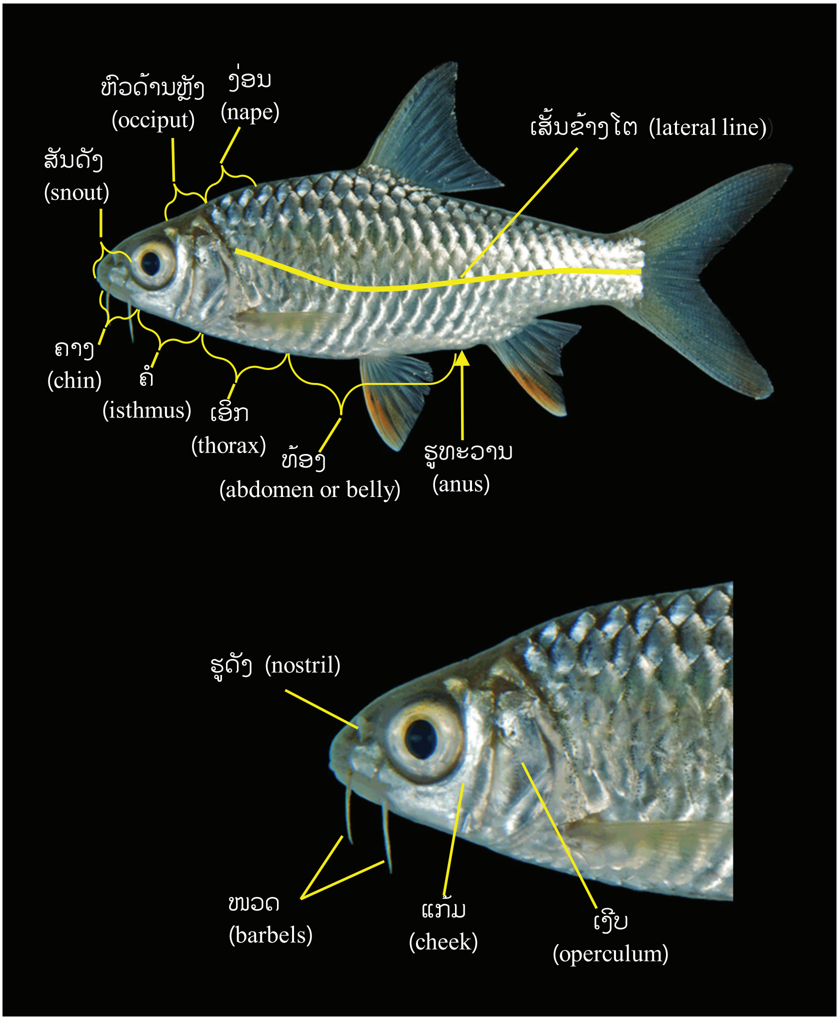
1. ການແບ່ງສ່ວນຂອງຮ່າງກາຍປາ
Names of fish body regions



ຮ່າງກາຍຂອງປາປະກອບດ້ວຍ 3 ສ່ວນດັ່ງລຸ່ມນີ້:
Fish body is basically composed of 3 regions below

ຫົວ: Head:	ສ່ວນຫົວແມ່ນສ່ວນທີ່ເລີ່ມຈາກປາຍປາກດ້ານເທິງ ຈົນເຖິງຂອບດ້ານທ້າຍຂອງເງືອກ ຫຼື ແຜ່ນປົກຟັນຟືມ region from the tip of snout to the posterior margin of the gill cover
ລຳໂຕ: Trunk:	ເລີ່ມຈາກຂອບດ້ານທ້າຍຂອງເງືອກ ໄປຫາຈຸດຕັ້ງສາກຂອງຮູທະວານ region from the posterior margin of gill cover to the anus
ຫາງ: Tail:	ເລີ່ມຈາກຮູທະວານໄປຫາປາຍສຸດຂອງແຜ່ນຄີຫາງ region from the anus to the posterior end of hypural plates

2. ຊື່ຂອງສ່ວນຕ່າງໆຂອງຮ່າງກາຍປາ
Names of fish body parts



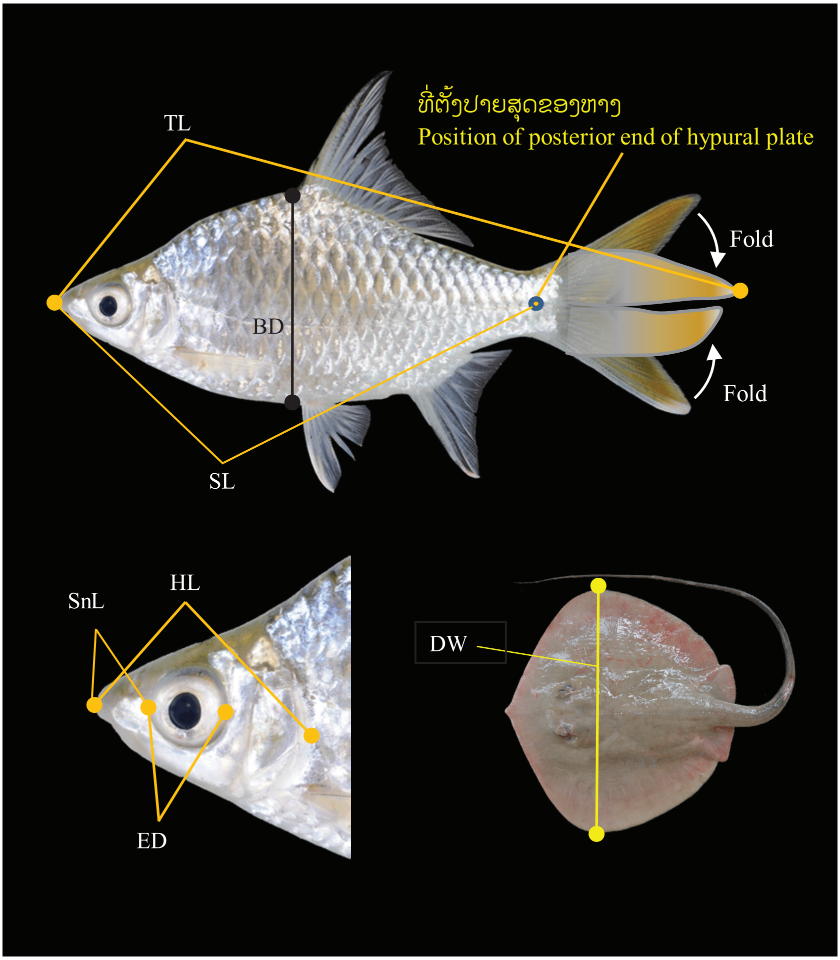
ສ່ວນຕ່າງໆຂອງຮ່າງກາຍ
Fish body parts

ທ້ອງ **Abdomen**	ຄຳສັບກ່ຽວກັບຮ່າງກາຍສຳລັບ 'ທ້ອງ' ໝາຍເຖິງພາກພື້ນທີ່ຢູ່ເບື້ອງຫລັງຂອງເອິກ ເຖິງຮູທະວານ Anatomical word for 'belly' region behind thorax to anus
ທວານ **Anus**	ຮູໃນຕອນທ້າຍຂອງທາງເດີນອາຫານສຳລັບການຖ່າຍເທສິ່ງເສດເຫຼືອ A hole at the end of alimentary canal for excretion
ທ້ອງ **Belly**	ຄຳສັບທີ່ເວົ້າເຖິງຊ່ວງທ້ອງ Spoken word for abdomen
ໜວດ **Barbel (s)**	ໂຄງສ້າງຄ້າຍຄືໜວດເຄົາຮຽວຍາວອ້ອມບໍລິເວນປາກຂອງປາຊະນິດຕ່າງໆ, ໂດຍສະເພາະແມ່ນຈຳພວກປາດຸກ ແລະ ປາໄນ Slender whisker-like structure around the mouth of various fishes typically catfishes and carps
ກົກຫາງ **Caudal peduncle**	ສ່ວນຫຼັງຂອງຕົວປາລະຫວ່າງປາຍຄີກົ້ນ ແລະ ຖານຄີຫາງ Posterior part of fish body between the end of anal fin base and the caudal fin base
ແກ້ມ **Cheek**	ສ່ວນຂ້າງຂອງຫົວຢູ່ທາງຂ້າງຂອງເງືອກ ແລະ ຕາ Lateral part of the head between the operculum and the eye
ຄາງ **Chin**	ສ່ວນລະຫວ່າງກາງຂອງຄາງກະໄຕລຸ່ມ Anteroventral part of lower jaw
ຄໍ **Isthmus**	ກ້ອນຊີ້ນບໍລິເວນຄໍລະຫວ່າງໂພ້ງຂອງຟັນພືມ Fleshy throat region between two gill cavities
ງ່ອນ **Nape**	ເຂດທີ່ຢູ່ດ້ານຫຼັງຂອງທ້າຍທອຍ (ຄືກັນກັບຕົ້ນຄໍ) The region just behind occiput (same as nucha)
ຮູດັງ **Nostril (s)**	ບ່ອນທີ່ເປີດສູ່ພາຍນອກຂອງໂພ້ງດັງ External opening of nasal cavity
ເສັ້ນຂ້າງໂຕ **Lateral line**	ເສັ້ນສາຍທີ່ຍາວໄປຕາມຂ້າງຂອງລຳໂຕປາທີ່ສ້າງຂຶ້ນໂດຍຊຸດຂອງອະໄວຍະວະຮັບຄວາມຮູ້ສຶກ A line or lines along the side of the fish body formed by the series of sensory organs
ທ້າຍທອຍ **Occiput**	ສ່ວນດ້ານຫລັງຂອງຫົວ Back of the head
ເງືອກ **Operculum**	ຄ້າຍຄືກະດູກແຜ່ນໜຶ່ງທີ່ປົກຫຸ້ມຟັນພືມ One of plate-like bones covering gills
ສັນດັງ **Snout**	ບໍລິເວນດ້ານໜ້າຂອງຫົວທີ່ຢູ່ຕໍ່ໜ້າຂອງຕາ Anterior region of head in front of the eye
ເອິກ **Thorax**	ຄຳສັບທີ່ມີຄວາມໝາຍຄືກັບເຕົ້ານົມ ຫຼື ໜ້າເອິກ Synonym of breast or chest

3. ວິທີການວັດແທກຮ່າງກາຍປາ
Measurement of fish body

ທຸກການວັດແທກຮ່າງກາຍປາຕ້ອງດຳເນີນໄປແບບຈຸດຕໍ່ຈຸດເຊັ່ນດຽວກັບ Hubbs and Lagler, 1958*.

All the measurements of fish body have to be taken point-to-point as in Hubbs and Lagler, 1958*.

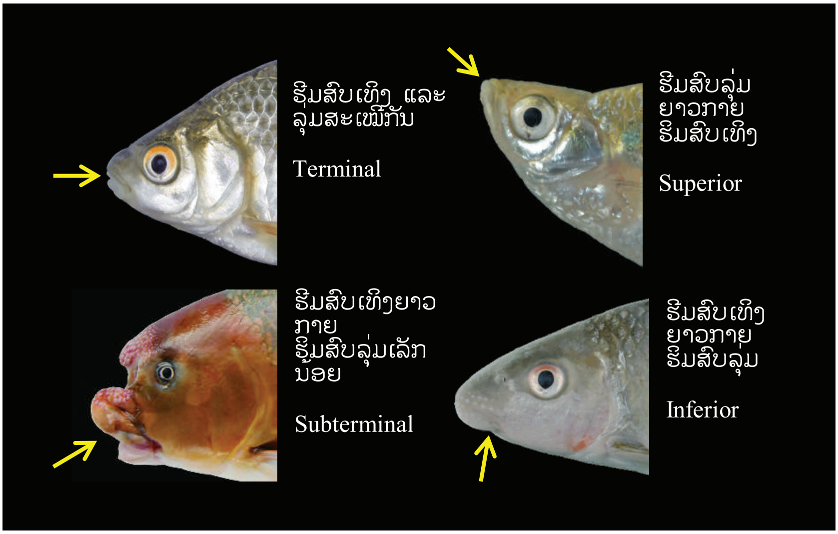


*__Hubbs, C.L. and K.F. Lagler__, 1958. Fishes of the Great Lakes region. Univ. Mich. Press. Ann, Arbor, Mich. 213 p

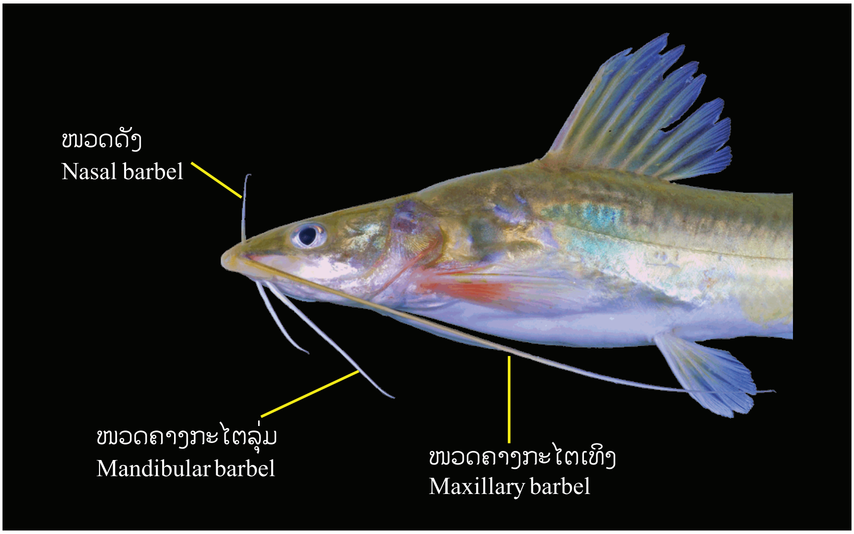
ການວັດແທກຮ່າງກາຍປາ
Measurements of fish body

ຄວາມເລິກຂອງລຳໂຕ: **Body depth (BD):**	ແມ່ນບ່ອນທີ່ເລິກທີ່ສຸດຂອງລຳໂຕ; ກຸ່ມປາສ່ວນໃຫຍ່ແມ່ນວັດແທກບໍລິເວນສັນຫຼັງ ແລ້ວຕັດຂວາງລົງມາຫາຖານຂອງຄີທ້ອງ. Greatest depth of body; otherwise measured at pelvic fin origin in some particular fish groups.
ຄວາມກວ້າງຂອງລຳໂຕ: **Disc width (DW):**	ແມ່ນແທກບ່ອນທີ່ກວ້າງທີ່ສຸດແຜ່ນວົງຈານຂອງລຳໂຕ [ທີ່ຂະຫຍາຍມາຈາກຄີ (ພົບສະເພາະປາຝາໄລເທົ່ານັ້ນ)] Greatest width of disc [applied to rays (stingrays) only].
ເສັ້ນຜ່າກາງຕາ: **Eye diameter (ED):**	ແທກເສັ້ນຜ່າກາງຕາບ່ອນທີ່ກວ້າງທີ່ສຸດ Greatest diameter of the eye.
ຄວາມຍາວຫົວ: **Head length (HL):**	ແທກຄວາມຍາວລະຫວ່າງປາຍສັນດັງ ແລະ ຈຸດທ້າຍສຸດຂອງເງີບ (ລວມເຖິງແຜຫຸ້ມພ້ອມ) Length between snout tip and posteriormost point of gill cover (including membrane).
ຄວາມຍາວສັນດັງ: **Snout length (SnL):**	ແທກຄວາມຍາວລະຫວ່າງປາຍສັນດັງ ຫຼື ປາຍຮີມສົບດ້ານເທິງຫາຂອບດ້ານໜ້າຂອງຕາ. Length between snout tip and anteriormost point of eye.
ຄວາມຍາວມາດຖານ: **Standard length (SL):**	ແທກລະຫວ່າງປາຍສັນດັງຫາຈຸດກາງດ້ານຂ້າງຂອງຖານຄີຫາງ (ຈຸດກາງດ້ານຂ້າງຂອງຈຸດເລີ່ມຕົ້ນສ່ວນທ້າຍຂອງກະດູກ hypural plate) ຢູ່ຖານຄີຫາງ. Length between snout tip and midlateral point of caudal fin base (= midlateral point of posterior margin of hypural plate).
ຄວາມຍາວລວມ: **Total length (TL):**	ແທກຄວາມຍາວລະຫວ່າງຈຸດກາງສ່ວນໜ້າຂອງຫົວ (ລວມທັງສັນດັງ ແລະ ຄາງກະໄຕເທິງ ແລະ ຄາງກະໄຕລຸ່ມ) ຫາປາຍຫາງດ້ານເທິງ, ຖ້າຫາງເປັນແບບ emarginated ຫຼື forked ປ່ຽງເທິງ ແລະ ປ່ຽງລຸ່ມຈະຫຸບເຂົ້າຫາກັນ (ແລ້ວແທກໄປຮອດເສັ້ນກາງ). Length between tip of head (could be the tip of snout or upper jaw or lower jaw) and tip of caudal fin. In case of emarginate or forked caudal fin, upper and lower lobes are folded and measured.

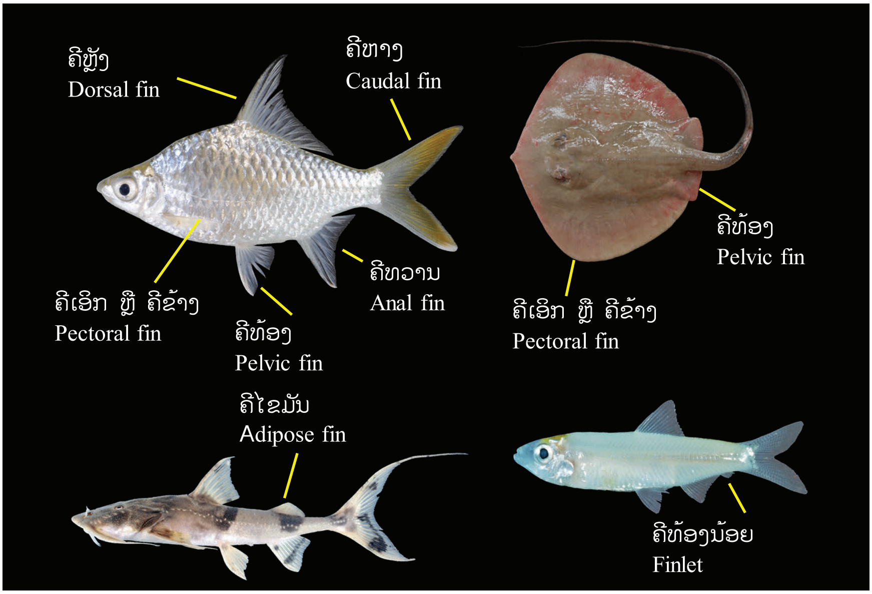
4. ຕຳແໜ່ງຂອງປາກ
Position of mouth



5. ໜວດ
Barbels

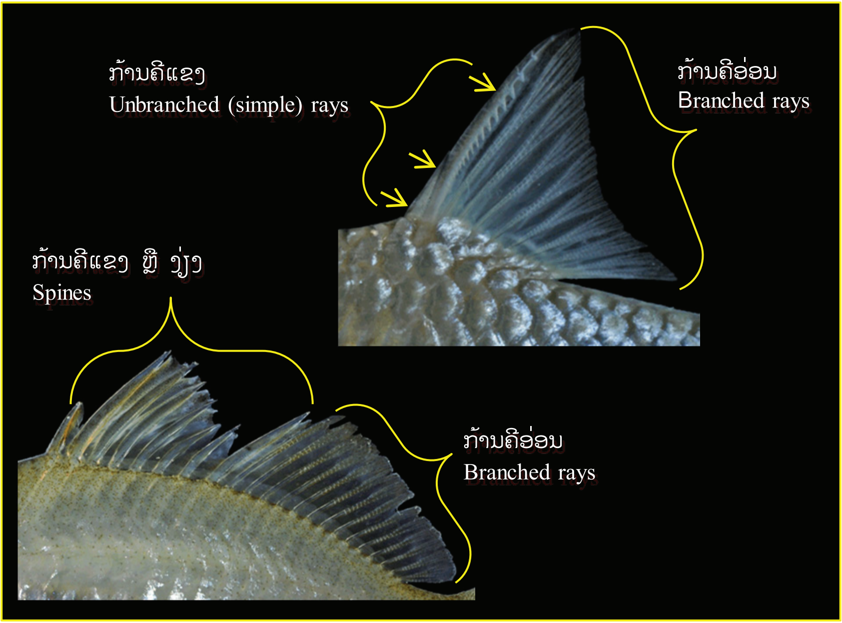


6. ຄີ
Fins



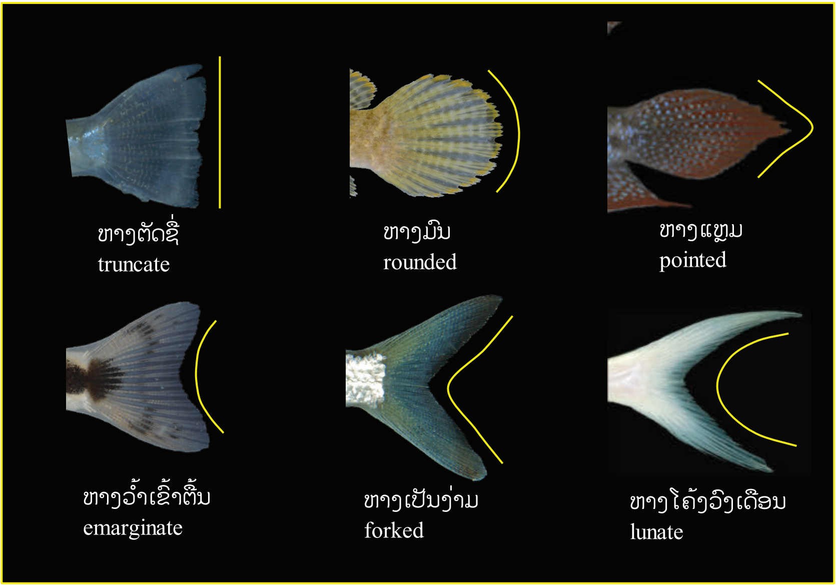
ຄີໄຂມັນ: **Adipose fin:**	ຄີອ່ອນຂອງປາທີ່ບໍ່ມີກ້າງ Fleshy fin without any rays.
ຄີທວານ: **Anal fin:**	ເປັນຄີດ່ຽວ, ຕັ້ງຢູ່ສ່ວນຫາງຂອງຮ່າງກາຍປາບໍລິເວນສັນທ້ອງ ແລະ ຢູ່ຫຼັງຂອງຮູທວານ One of the median fins usually exists on ventral side of the body after the anus.
ຄີຫາງ: **Caudal fin:**	ເປັນຄີດ່ຽວເປັນກ້ານຄີທີ່ຢູ່ສ່ວນທ້າຍຂອງຮາງກາຍທັງໝົດ, One of the median fins usually exists at posterior end of the body.
ຄີຫຼັງ: **Dorsal fin:**	ເປັນຄີດ່ຽວຢູ່ບໍລິເວນສັນຫຼັງຂອງຮ່າງກາຍປາ One of the median fins usually exists on dorsal side of the body.
ຄີນ້ອຍ: **Finlet:**	ເປັນກ້າງຄີນ້ອຍໆທີ່ຕິດຕໍ່ຈາກຄີຫຼັງຫຼືຄີທວານໃນປາບາງຊະນິດ Small fin rays detached from dorsal and/or anal fins in some species.
ຄີເອິກ ຫຼື ຄີຂ້າງ: **Pectoral fin:**	ເປັນຄີຄູ່, ຕິດແນບຕາມດ້ານຂ້າງຢູ່ຖັດມາດ້ານຫຼັງຟັນຟືມ One of the paired fin usually exists just after gill cavity.
ຄີທ້ອງ: **Pelvic fin:**	ເປັນຄີຄູ່, ຕິດແນບຢູ່ບໍລິເວນດ້ານທ້ອງຂອງຮ່າງກາຍຢູ່ກ່ອນໜ້າຄີທວານ One of the paired fin usually exists on ventral side of the body in front of anal fin.

7. ກ້ານຄີ
Fin rays

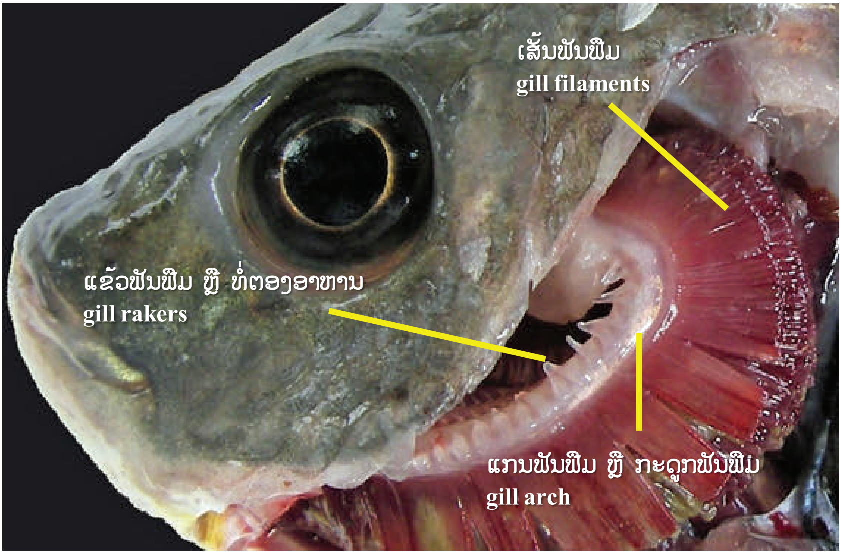


ກ້ານຄີ **Fin rays**	ເປັນຄຳສັບທົ່ວໄປທີ່ໃຊ້ສຳລັບຄ້ຳຊູໂຄງສ້າງຂອງຄີ General term for supportive structure of fins
ກ້ານຄີແຂງ ຫຼື ງ່ງງ **Spines**	ເປັນກ້ານຄີແຂງປະເພດໜຶ່ງທີ່ບໍ່ມີຂໍ້, ສ່ວນຫຼາຍຄີແຂງແມ່ນກະດູກ ແລະ ມີຄວາມແຫຼມຄົມ. ມັກຈະພົບຢູ່ດ້ານໜ້າຂອງແຜ່ນຄີ Fin rays without segments. Often hard and prickly. If present, compose anterior part of median fins
ກ້ານຄີແຂງ **Unbranched rays (simple rays)**	ປະເພດຂອງຄີອ່ອນທີ່ປະກອບມີປາຍດ່ຽວ, ມີລັກສະນະຍືດຫຍຸ່ນ ຫລືແຂງ A type of soft rays with simple tip. Flexible or stiffened
ກ້ານຄີອ່ອນ **Branched rays**	ປະເພດຂອງຄີອ່ອນທີ່ປະກອບມີປາຍງ່າ, ມີລັກສະນະຍືດຫຍຸ່ນ A type of soft rays with branched tip. Always flexible.

8. ຮູບແບບຄີຫາງ
Caudal fin shape

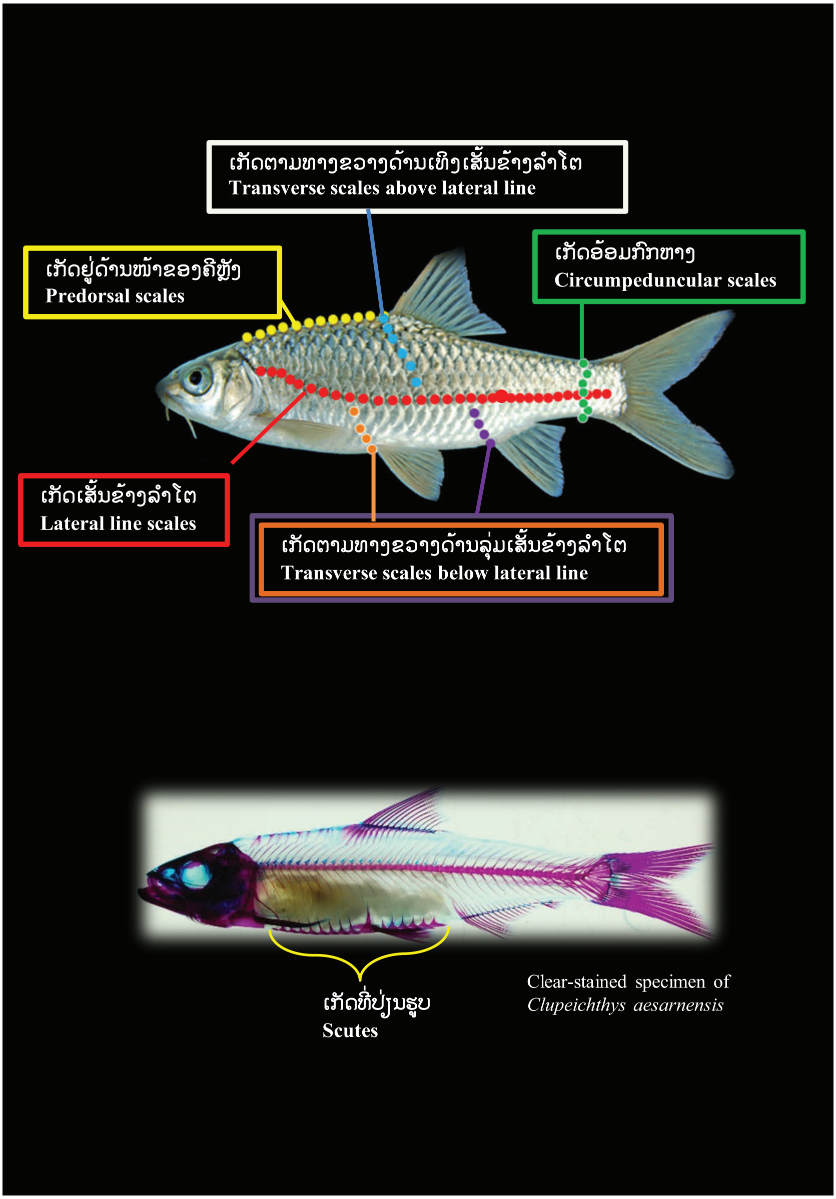


9. ໂຄງສ້າງຂອງຟັນພືນ
Structure of gills



10. ການນັບເກັດ

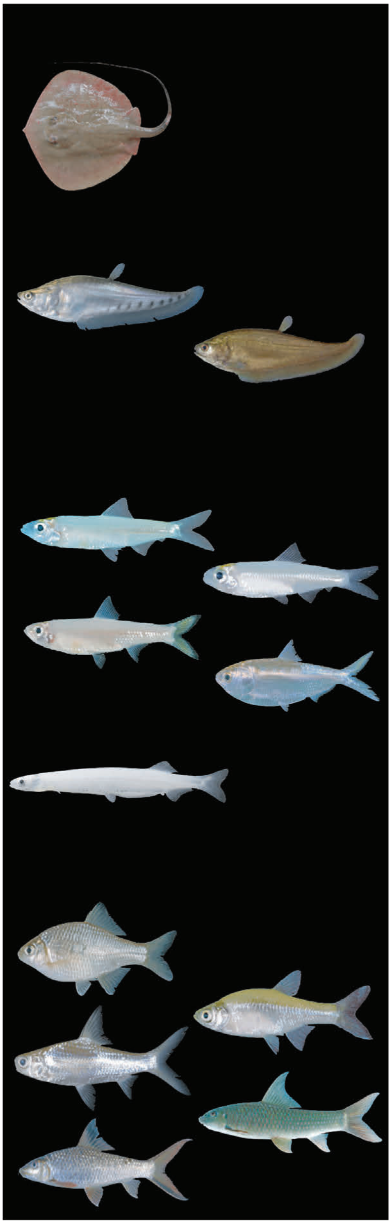
Scales to be counted

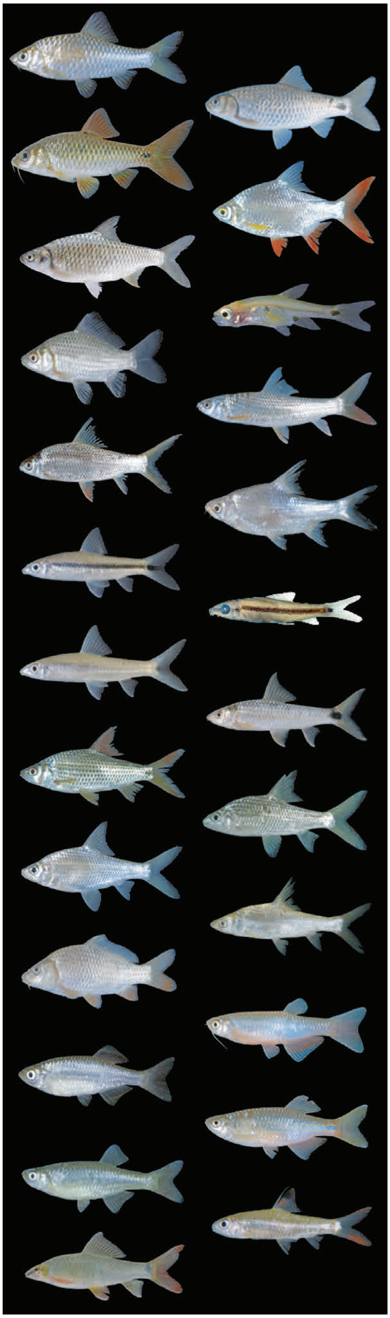


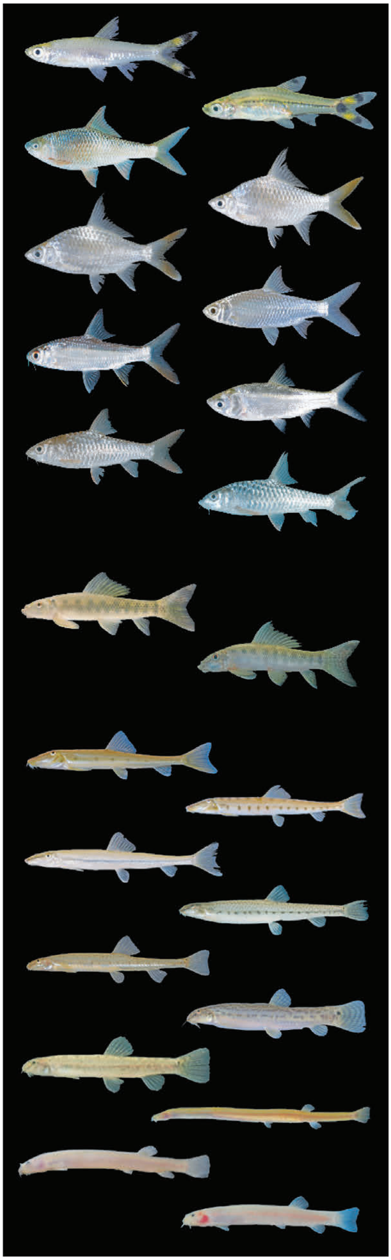
ການນັບເກັດ
Scales to be counted

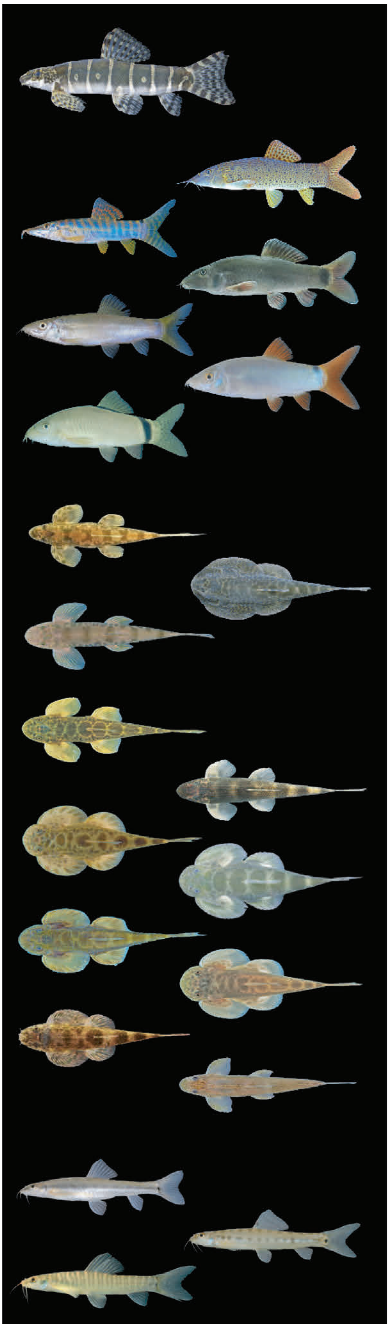
ເກັດອ້ອມກົກຫາງ **Circumpeduncular scales:**	ແມ່ນການນັບແບບຊິກແຊ່ກ ອ້ອມບໍລິເວນກົກຫາງທີ່ແຄບທີ່ສຸດ. scales encircling the caudal peduncle, counting is made at the shallowest portion of the caudal peduncle.
ເກັດເສັ້ນຂ້າງໂຕ: **Lateral line scales:**	ແມ່ນຈຳນວນເກັດຕາມເສັ້ນຂ້າງໂຕທີ່ມີທໍ່/ຮູ. pored scales on the lateral line(s)
ເກັດກ່ອນຄີຫຼັງ: **Predorsal scales:**	ແມ່ນເກັດທີ່ຢູ່ຕາມສັນຫຼັງບໍລິເວນດ້ານໜ້າຄີຫຼັງ ຫຼື ກ່ອນຄີຫຼັງ. mid-dorsal scale row in front of dorsal fin
ເກັດທີ່ປ່ຽນຮູບ: **Scutes :**	ເກັດແຂງທີ່ຖືກຈັດວາງໄປຕາມລວງຍາວຂອງລຳຕົວ Stiffened scales arranged along the body of fish.
ເກັດຕາມທາງຂວາງເທິງເສັ້ນຂ້າງລຳໂຕ **Transverse scales above lateral line:**	ແມ່ນເກັດທີ່ອ້ອມຮອບລຳໂຕ, ທີ່ນັບຈາກຖານຂອງຄີຫຼັງລົງມາເຖິງຈົນເຖິງເສັ້ນຂ້າງລຳໂຕ(ທີ່ບໍ່ລວມເກັດຂອງເສັ້ນຂ້າງລຳໂຕ) diagonal scale row across the side of body, counted from the base of dorsal fin origin to the lateral line (predorsal scales and lateral line scales are not included)
ເກັດຕາມທາງຂວາງດ້ານລຸ່ມເສັ້ນຂ້າງລຳໂຕ **Transverse scales below lateral line:**	ແມ່ນເກັດທີ່ອ້ອມຮອບລຳໂຕ, ທີ່ນັບຈາກຖານຂອງຄີເອິກ ຫຼື ຄີທະວານຂຶ້ນເມືອຈົນເຖິງເສັ້ນຂ້າງລຳໂຕ(ທີ່ບໍ່ລວມເກັດຂອງເສັ້ນຂ້າງລຳໂຕ) diagonal scale row across the side of body, counted from the base of anal and/or pelvic fin origin to the lateral line (lateral line scales are not included).

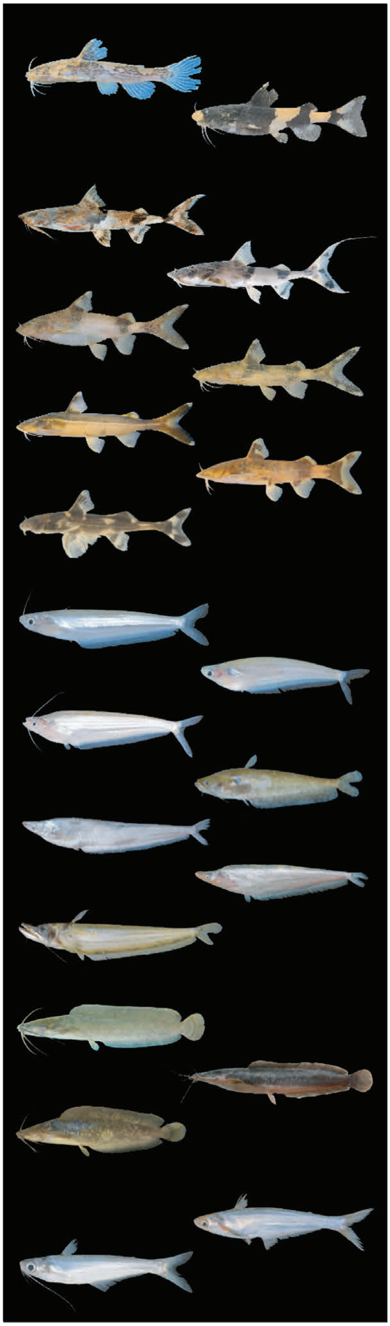
ຕອນທີ 2: ການຊອກຫາ
Section 2: Fish Search Aid

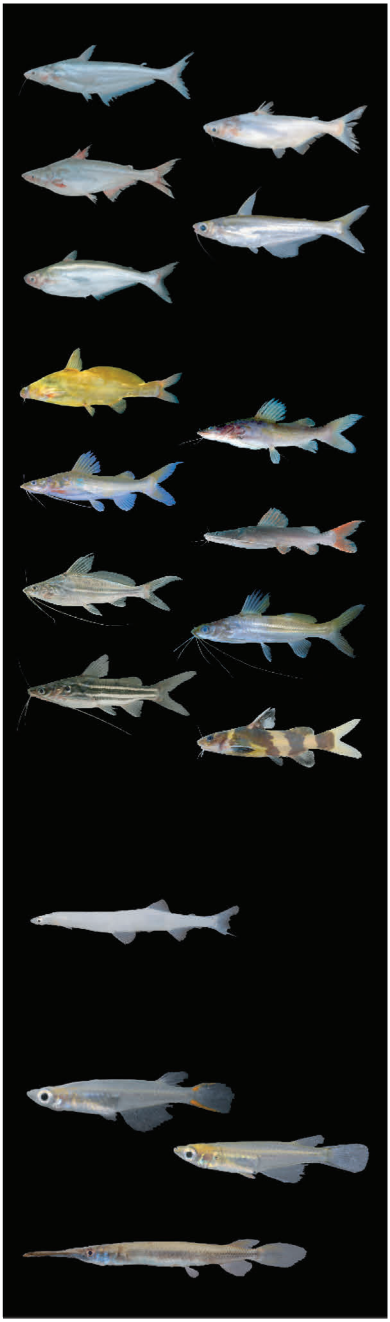


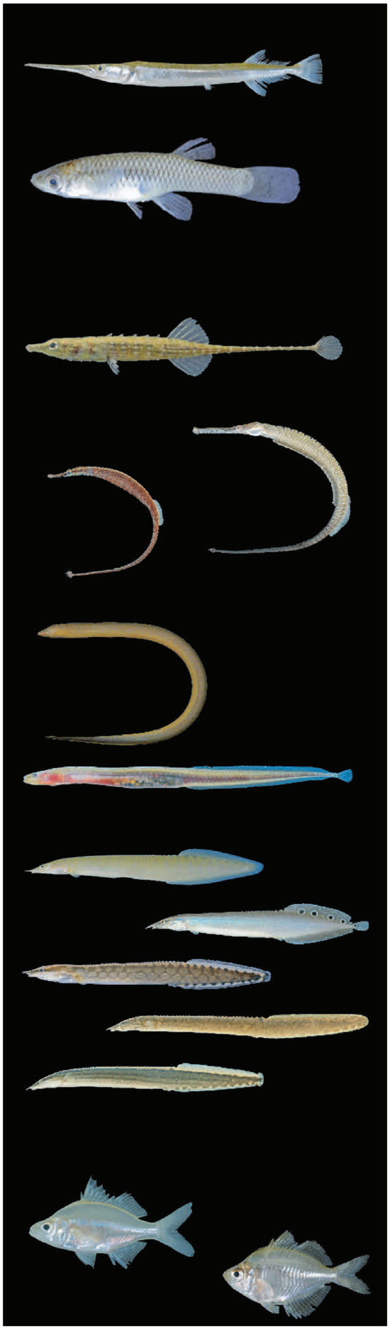


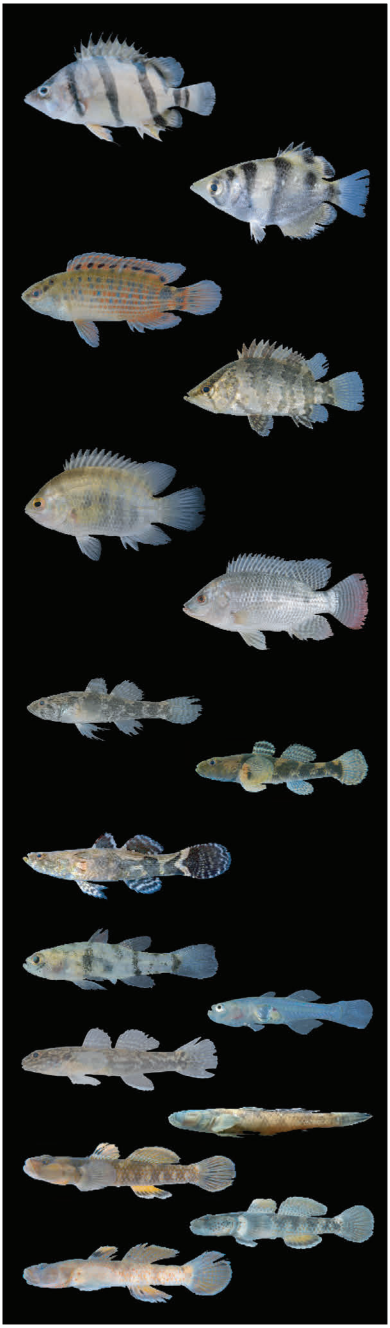








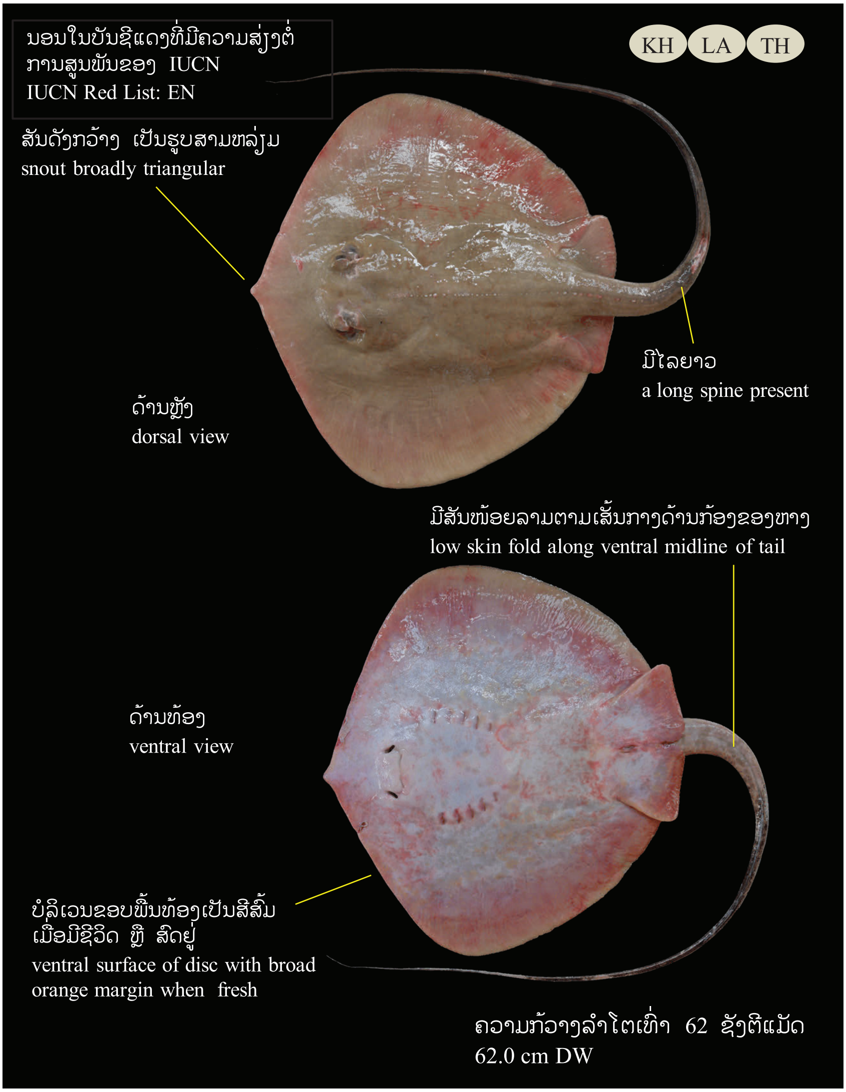




ຕອນທີ 3: ຊະນິດປາ ແລະ ການຈັດຈຳແນກ
SECTION 3: Fish Species and Identification

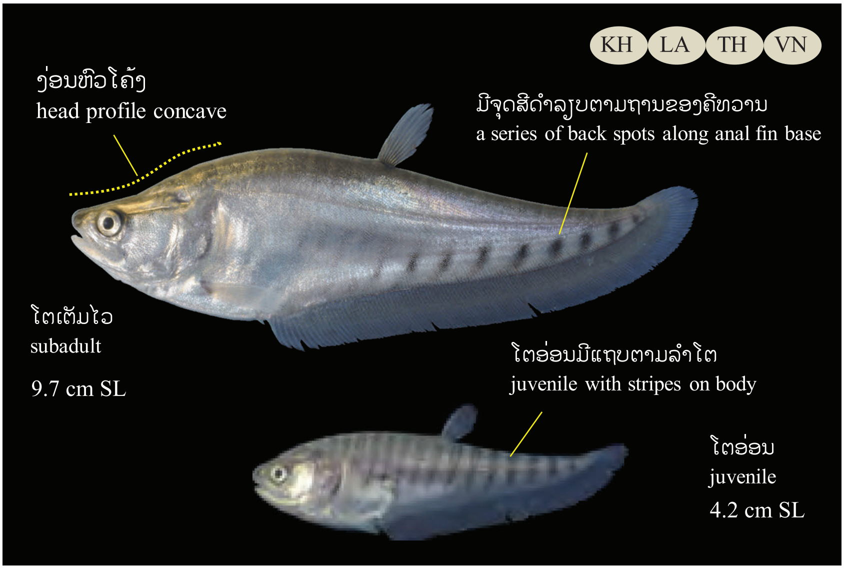
ຕະກຸນປາຝາໄລ DASYATIDAE MYLIOBATIFORMES

ປາຝາໄລລາວ *Hemitrygon laosensis* (Roberts & Karnasuta, 1987)



ຕະກູນປາຕອງ NOTOPTERIDAE
OSTEOGLOSSIFORMES

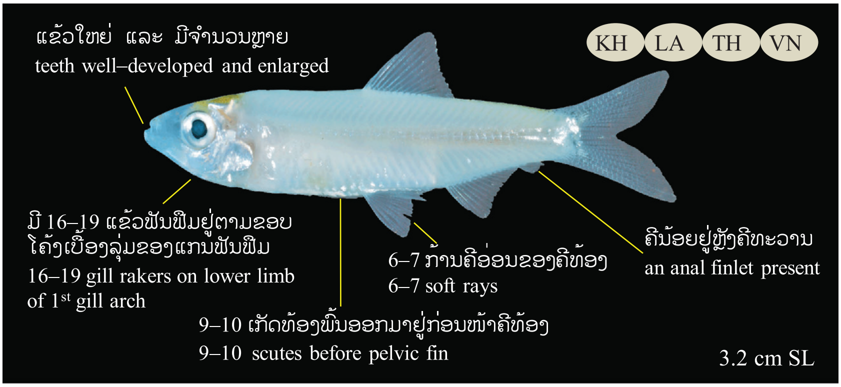
ປາຕອງດາວ *Chitala ornata* (Gray, 1831)



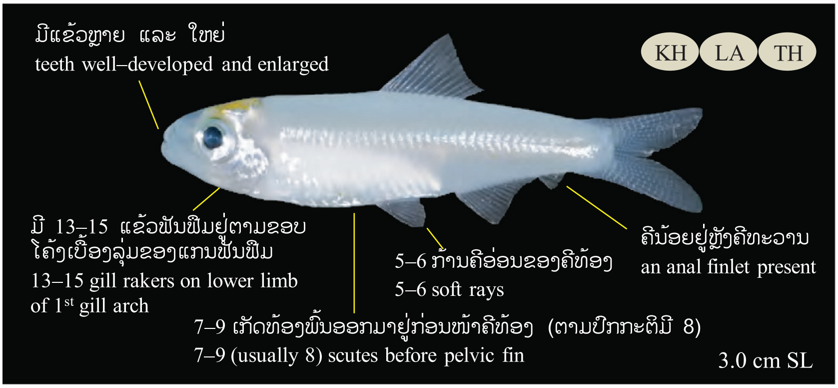
ປາຕອງນາ *Notopterus notopterus* (Pallas, 1769)

ຕະກຸນປາແກ້ວ CLUPEIDAE CLUPEIFORMES

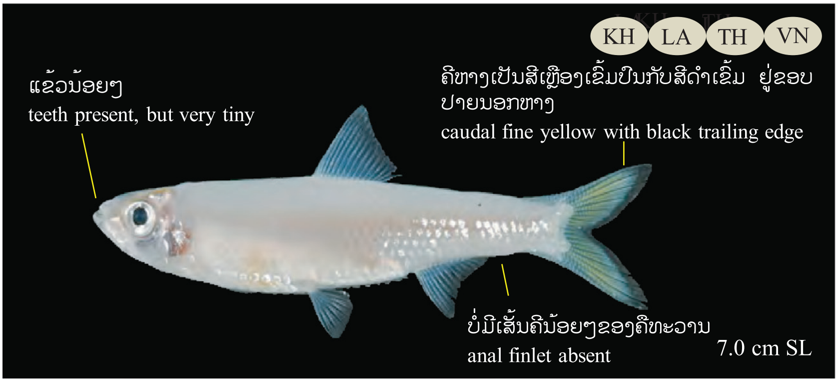
ປາແກ້ວ *Clupeichthys aesarnensis* Wongratana, 1983



ປາແກ້ວ *Clupeichthys* cf. *perakensis*

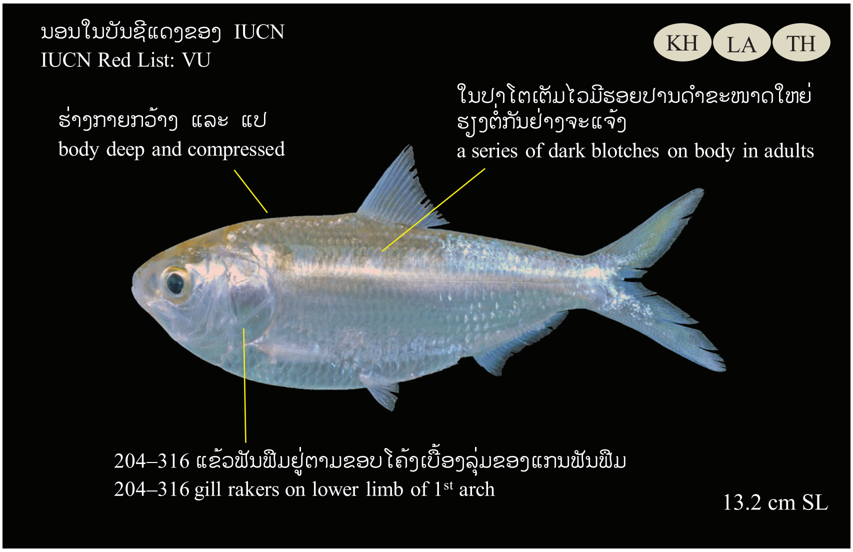


ປາແກ້ວ *Clupeoides borneensis* Bleeker, 1851



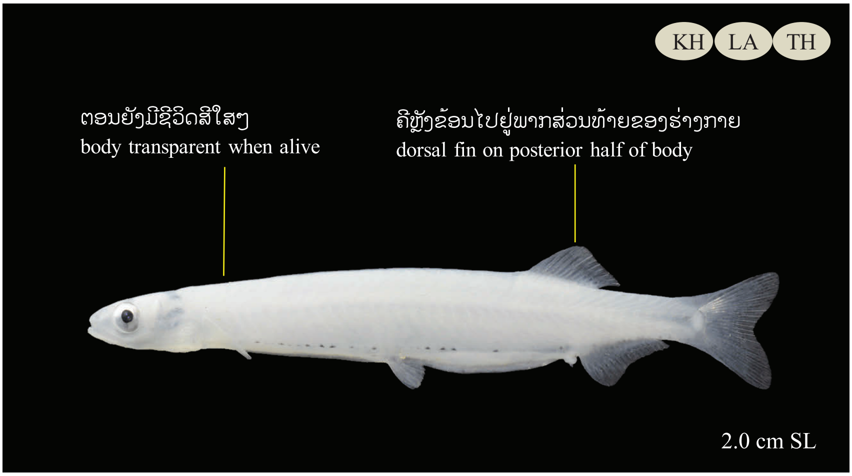
ຕະກູນປາແກ້ວ CLUPEIDAE CLUPEIFORMES

ປາໝາກຜາງ *Tenualosa thibaudeaui* (Durand, 1940)

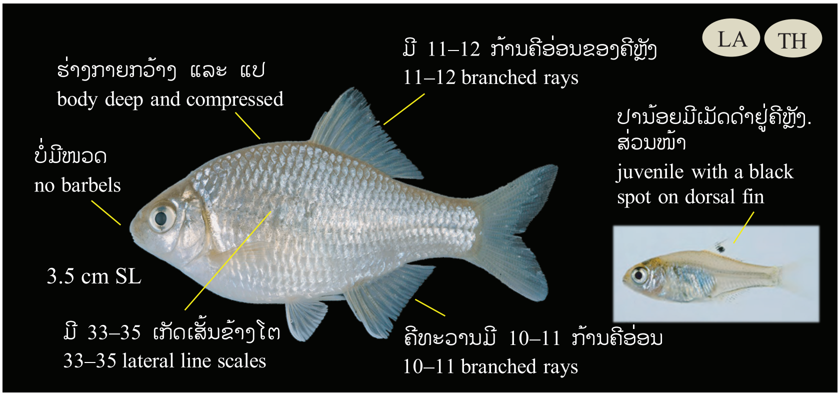


ຕະກູນປາແກ້ວເສັ້ນໝີ່ SUNDASALANGIDAE CLUPEIFORMES

ປາແກ້ວເສັ້ນໝີ່ *Sundasalanx mekongensis* Britz & Kottelat, 1999

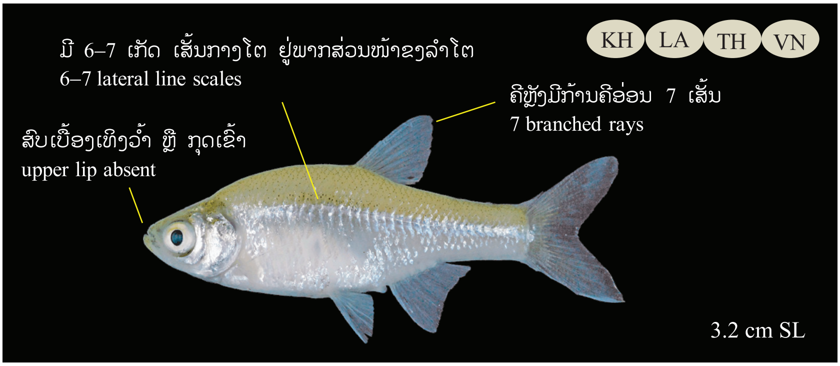


ປາເບ້ຍ ***Acheilognathus deignani*** **(Smith, 1945)**



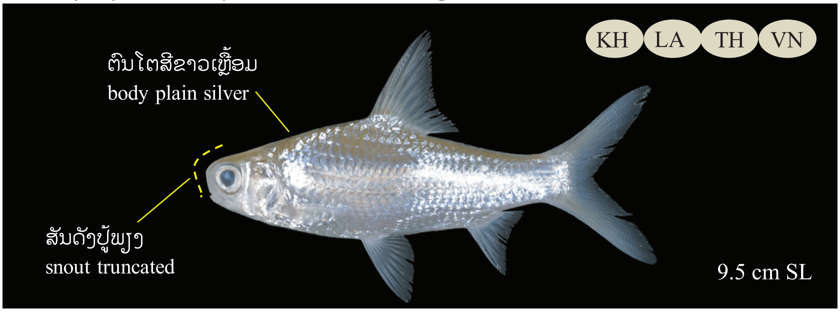
ປາດັງກຸດ

Amblypharyngodon chulabhornae **Vidthayanon & Kottelat, 1990**



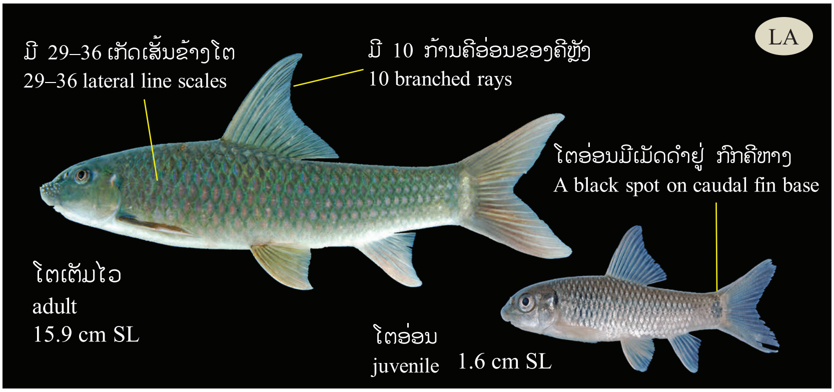
ປາສົບປູ້, ປາໂຈກຕາໂປ

Amblyrhynchichthys micracanthus **Ng & Kottelat, 2004**

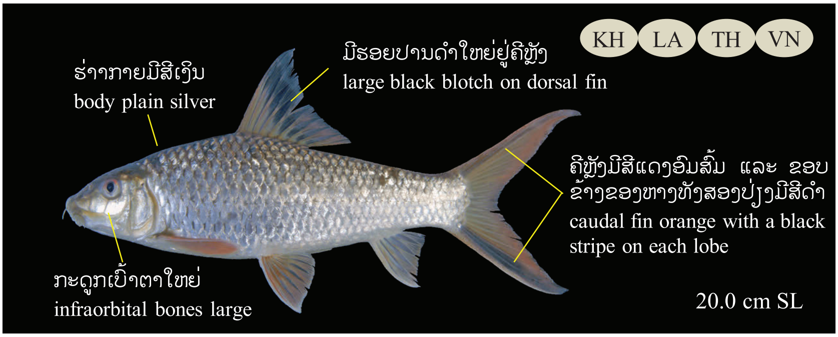


ຕະກຸນປາປາກ CYPRINIDAE CYPRINIFORMES

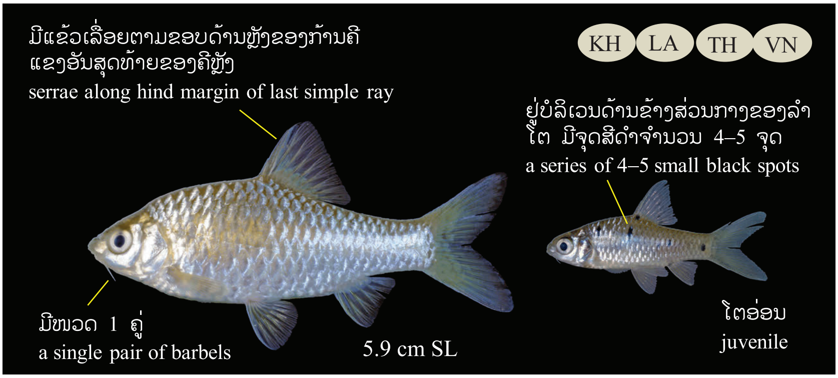
ປາເພ້ຶາ *Bangana lippa* (Fowler, 1936)



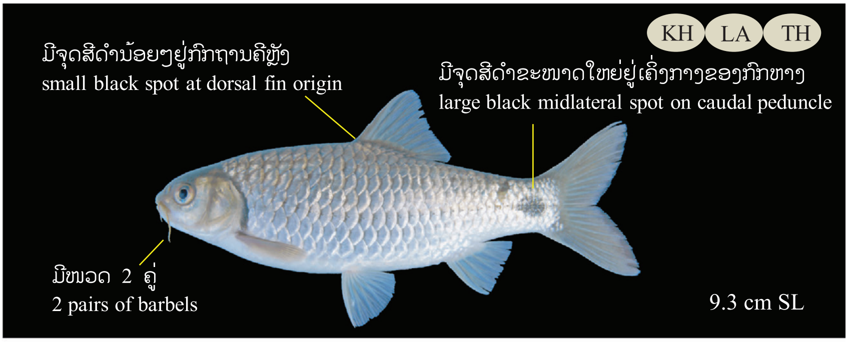
ປາໂຈກຫາງແຊກ *Barbichthys laevis* (Valenciennes, 1842)



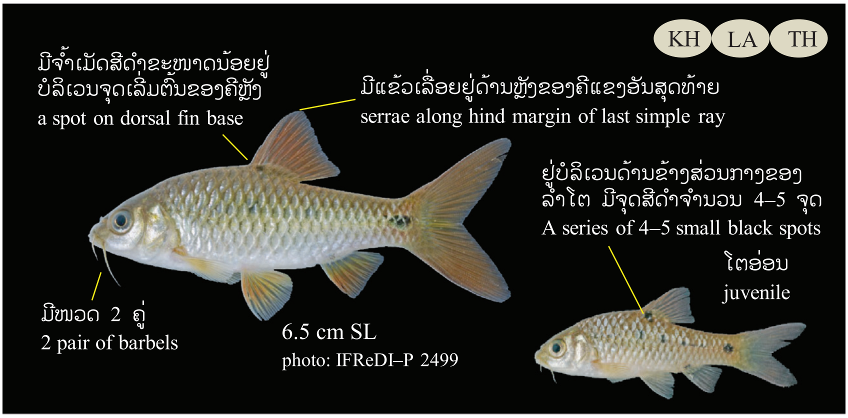
ປາຂາວ *Barbodes aurotaeniatus* (Tirant, 1885)



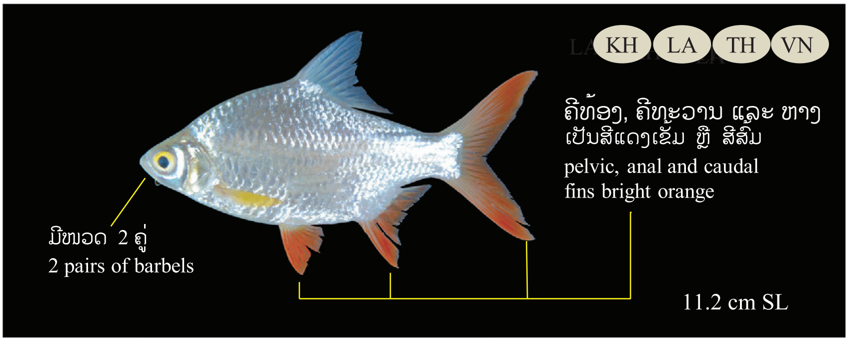
ປາປີກ *Barbodes jacobusboehlkei* (Fowler, 1958)



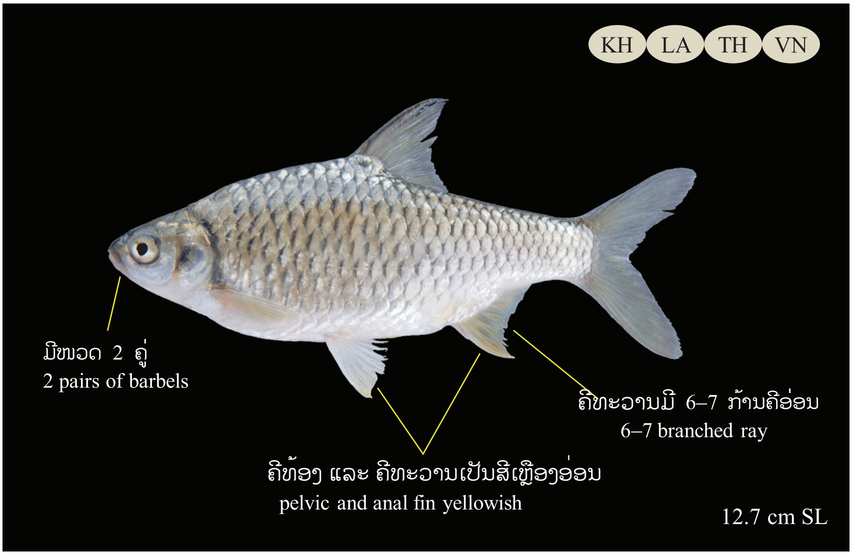
ປາຂາວ *Barbodes rhombeus* (Kottelat, 2000)



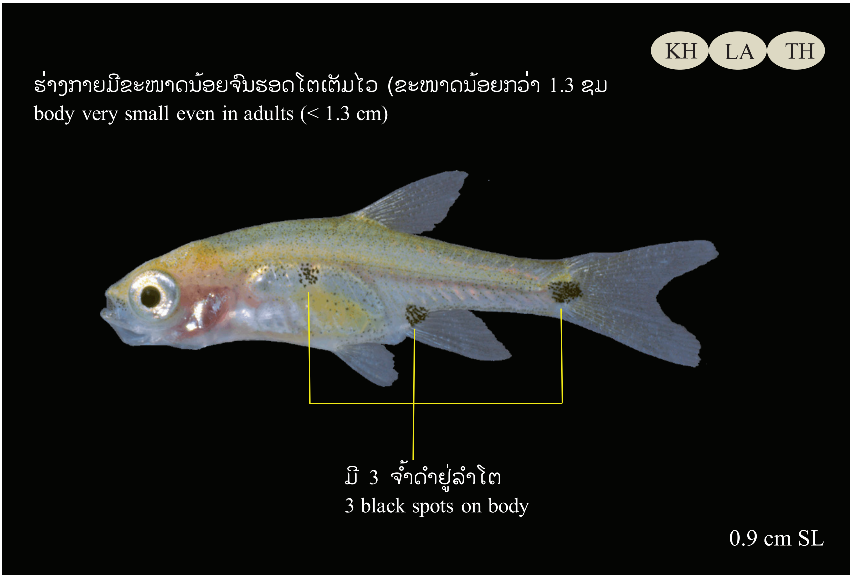
ປາວຽນໄຟ *Barbonymus altus* (Günther, 1868)



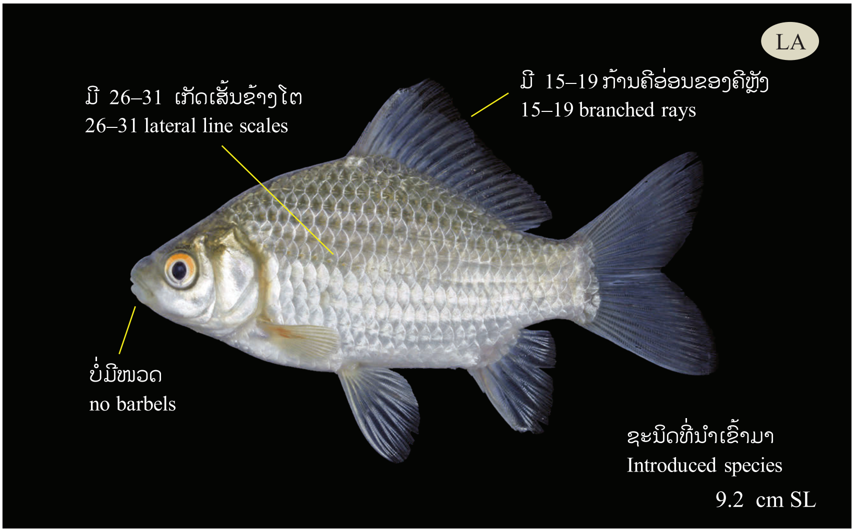
ປາປາກ *Barbonymus gonionotus* (Bleeker, 1849)



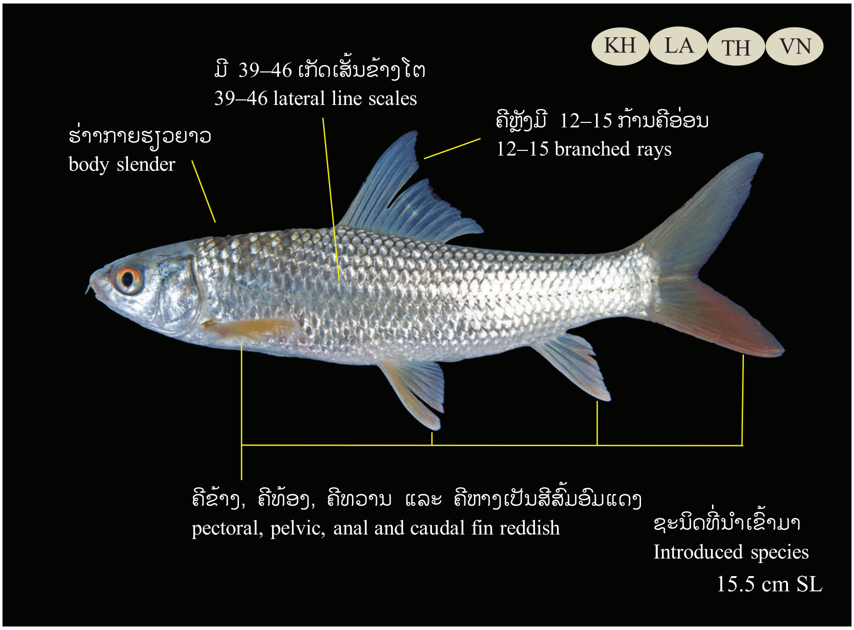
ປາຂາວແກ້ວສາມດາວ *Boraras micros* Kottelat & Vidthayanon, 1993



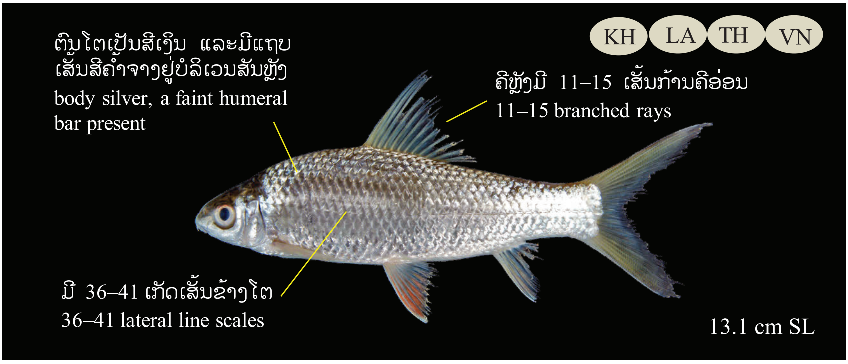
ປາແຝກ *Carassius auratus* (Linnaeus, 1758)



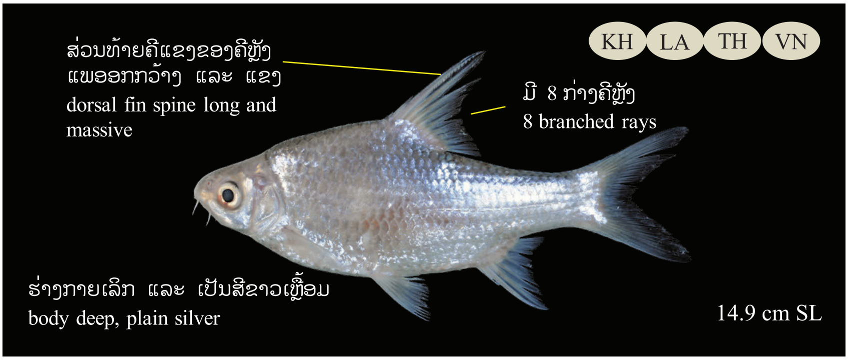
ປານວນຈັນ *Cirrhinus cirrhosus* (Bloch, 1795)



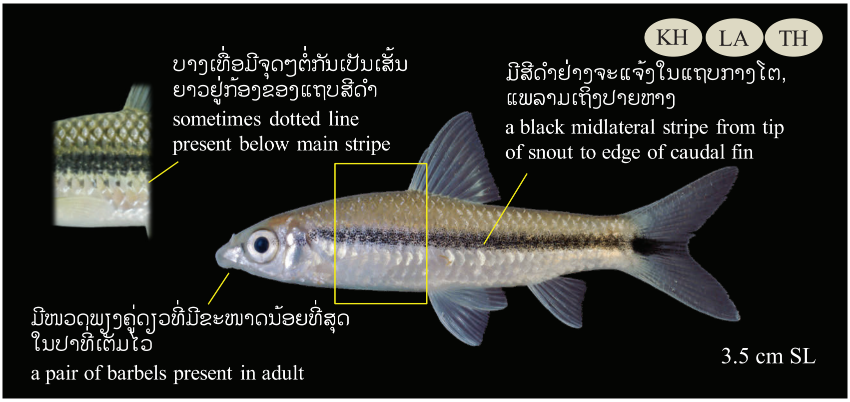
ປາແກງ *Cirrhinus prosemion* (Fowler, 1934)



ປາບານ *Cosmochilus harmandi* Sauvage, 1878



ປາຂີ້ໂກະ *Crossocheilus atrilimes* Kottelat, 2000



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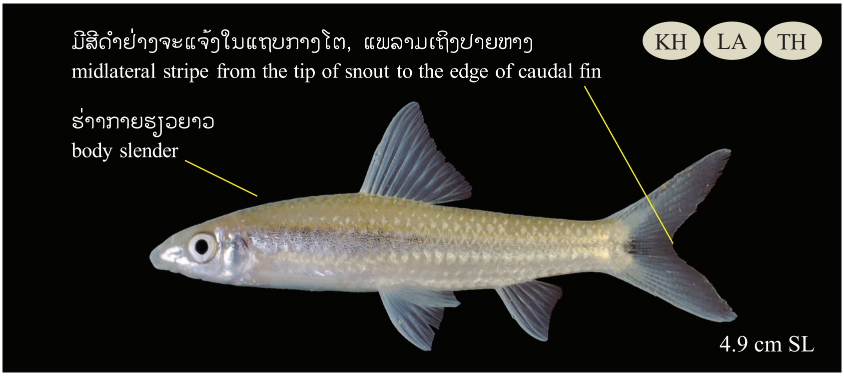
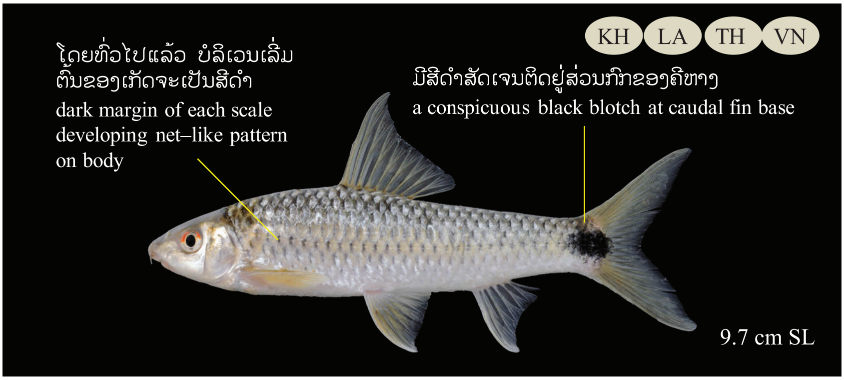
ປາຂີ້ໂກະ *Crossocheilus cobitis* (Bleeker, 1854)

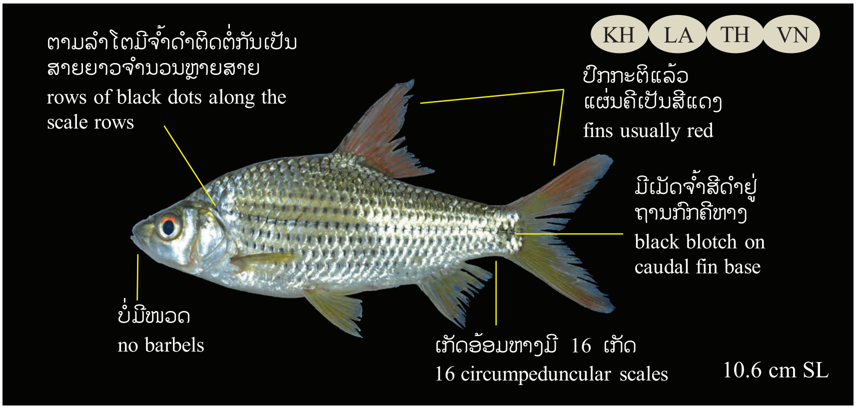
ປາຕອກຫອຍ *Crossocheilus oblongus* Kuhl & van Hasselt, 1823



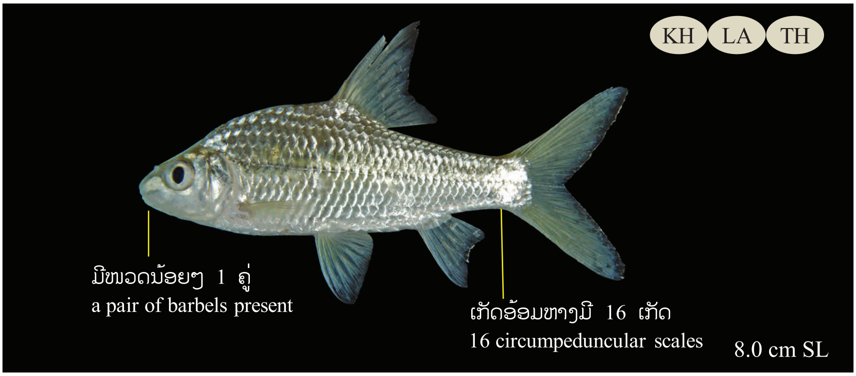
ປາຫອຍຫາງຈ້ຳ *Crossocheilus reticulatus* (Fowler, 1934)



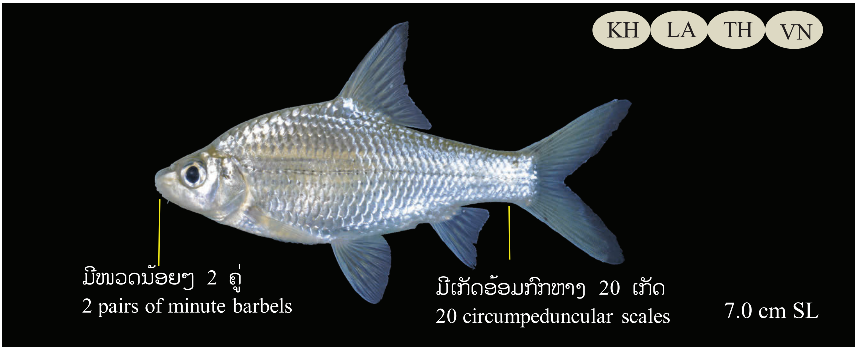
ປາດອກງີ້ວຄີແດງ *Cyclocheilichthys apogon* (Valenciennes, 1842)



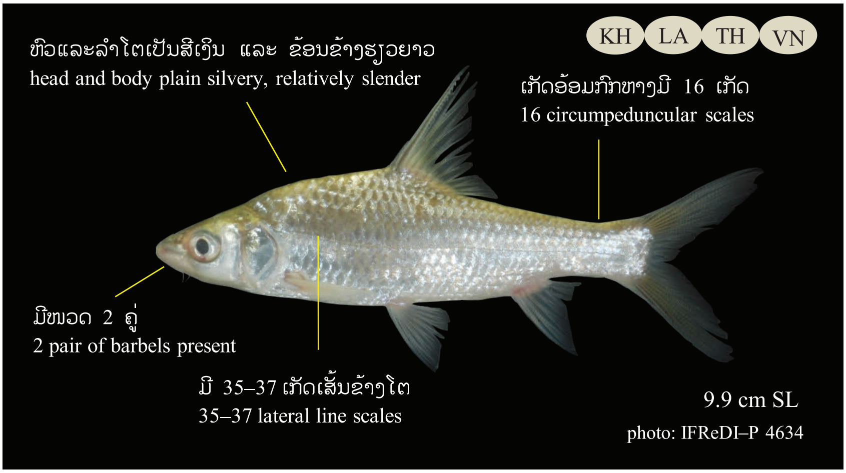
ປາດອກງີ້ວຄີຂາວ *Cyclocheilichthys armatus* (Valenciennes, 1842)



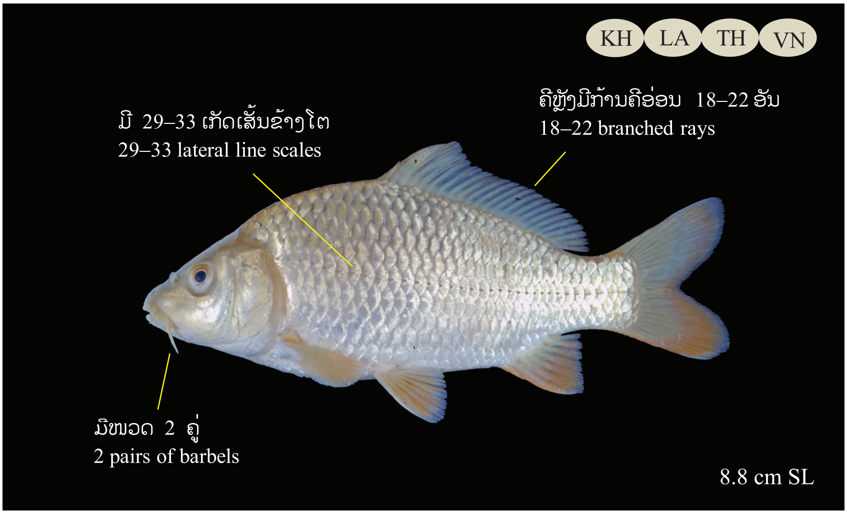
ປາດອກງີ້ວ *Cyclocheilichthys repasson* (Bleeker, 1853)



ປາໂຈກ *Cyclocheilos enoplos* (Bleeker, 1849)

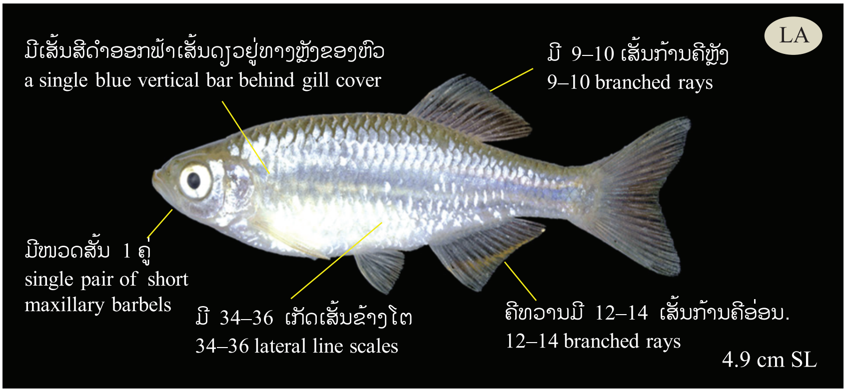


ປາໄນ *Cyprinus rubrofuscus* Lacepède, 1803

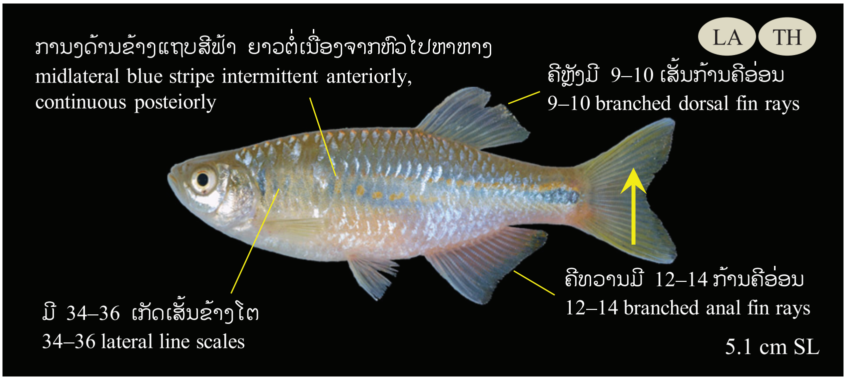


ປາຊິວບົວ *Danio roseus* Fang & Kottelat, 2000

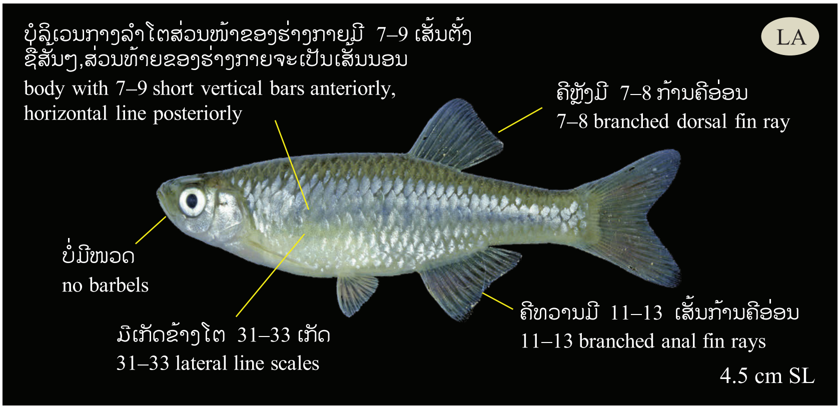
ປາຊິວລາຍຊີກແຊກ *Devario gibber* (Kottelat, 2000)



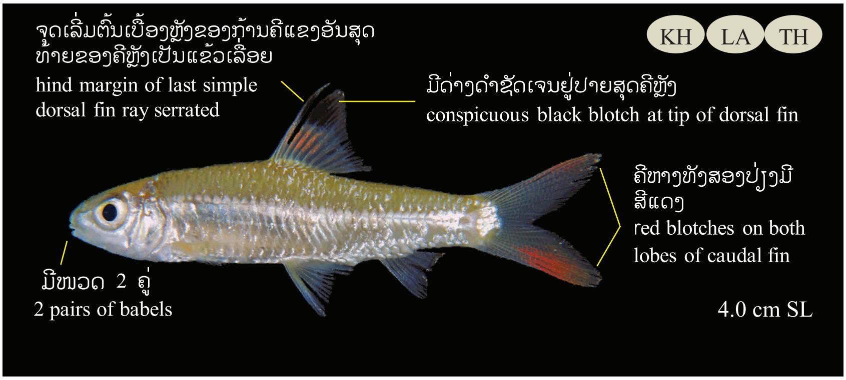
ປາຊິວຟ້າເຫລື້ອມ *Devario laoensis* (Pellegrin & Fang, 1940)



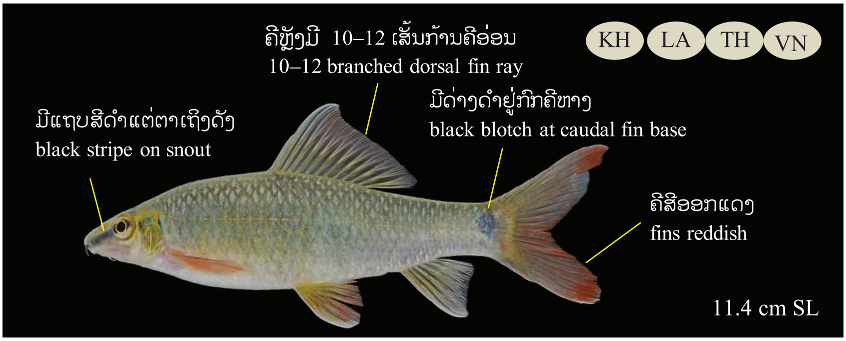
ປາຊິວເຂົ້າ *Devario salmonatus* (Kottelat, 2000)



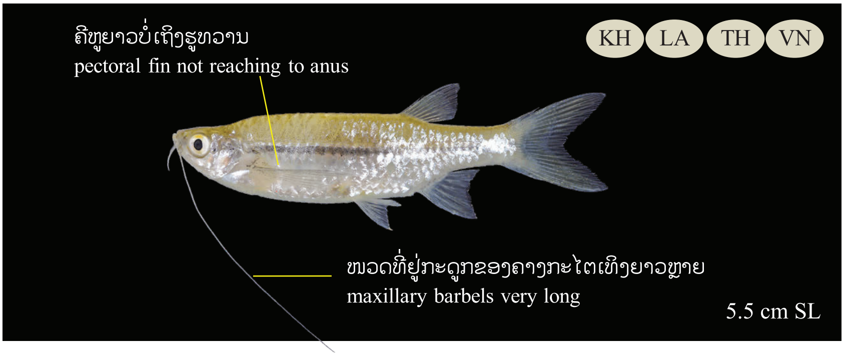
ປາຫາງແດງ *Discherodontus ashmeadi* (Fowler, 1937)



ປາປ່ານດາວ *Epalzeorhynchos frenatum* (Fowler, 1934)

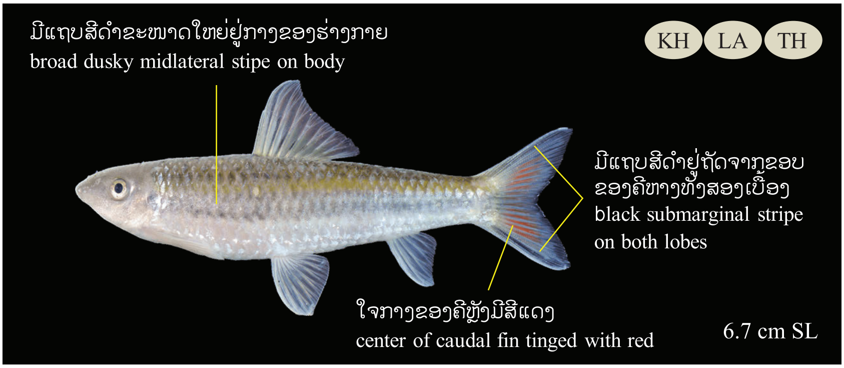


ປາຊີວໜວດ *Esomus metallicus* Ahl, 1924



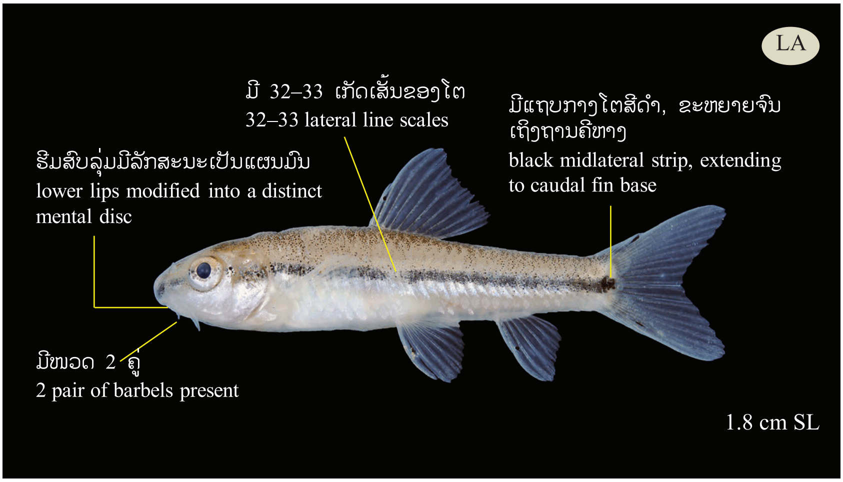
ປາມັນ, ປາກະຕອຍ *Garra cambodgiensis* (Tirant, 1884)

ປາມັນຂອບຫາງດຳ *Garra fasciacauda* Fowler, 1937



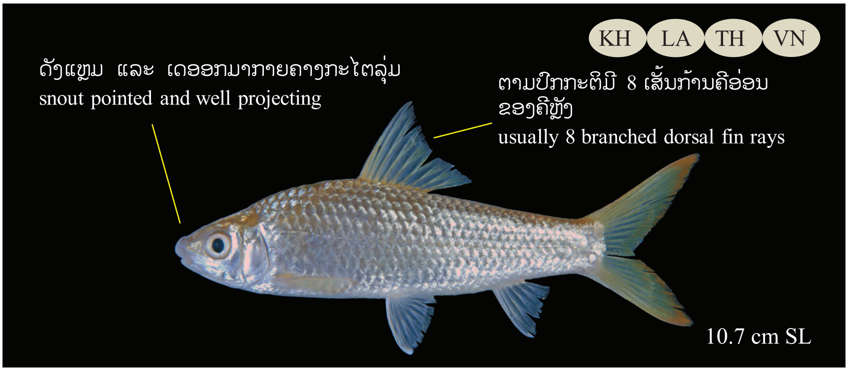
ປາຈີ່ໂກະ, ປາມັນໜ້າບົ້າ *Garra fuliginosa* Fowler, 1934

ປາຈີ່ໂກະ, ປາມັນ *Garra* sp.

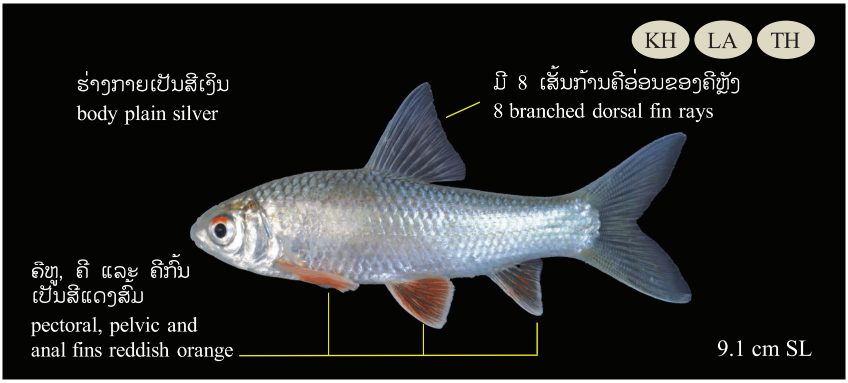


ປາແກງລາຍ, ປາສ້ອຍ *Gymnostomus lineatus* (Smith, 1945)

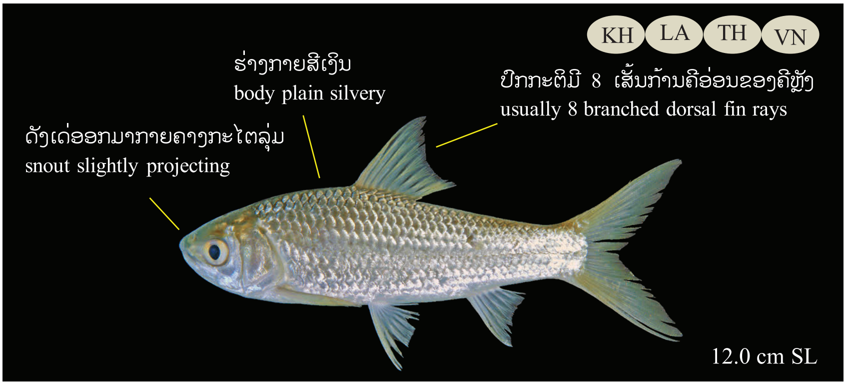
ປາແກງໜ້າແຫຼມ, ປາສ້ອຍ *Gymnostomus lobatus* (Smith, 1945)



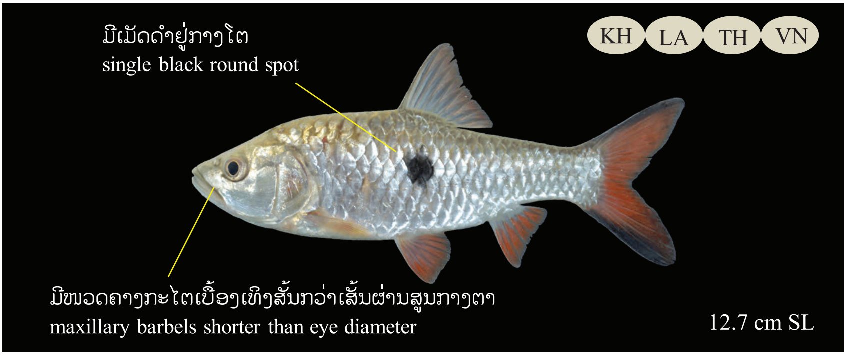
ປາພອນ *Gymnostomus ornatipinnis* (Roberts, 1997)



ປາແກງໄທ *Gymnostomus siamensis* (Sauvage, 1881)

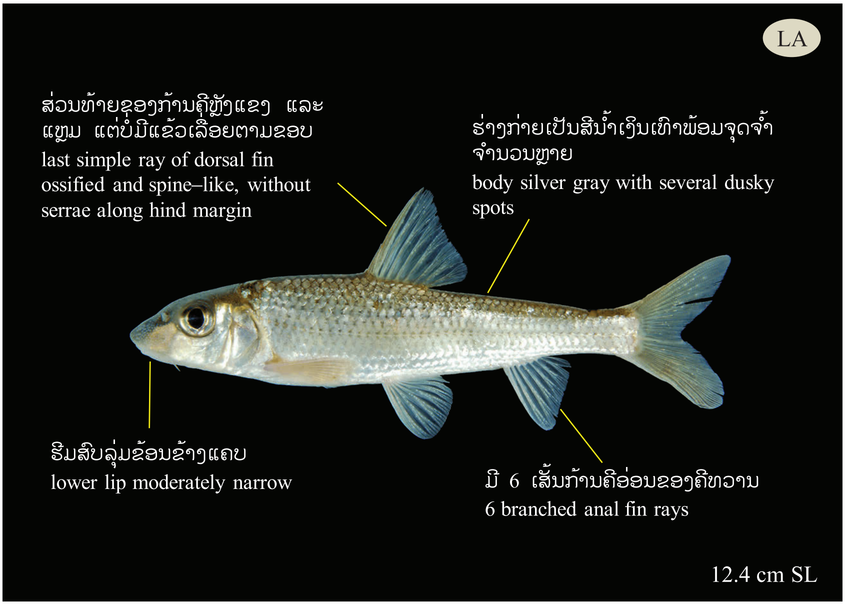


ປາສູດຈ້ຳ *Hampala dispar* Smith, 1934

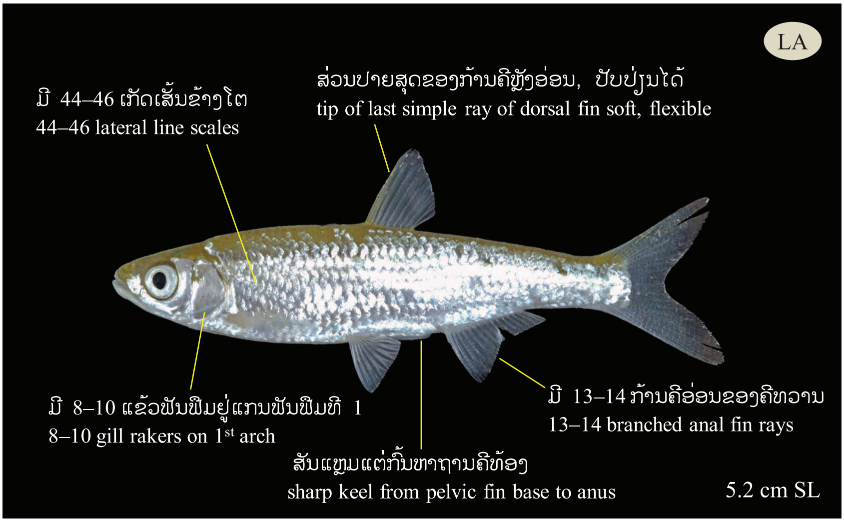


ປາສູດຂີດ *Hampala macrolepidota* Kuhl & van Hasselt, 1823

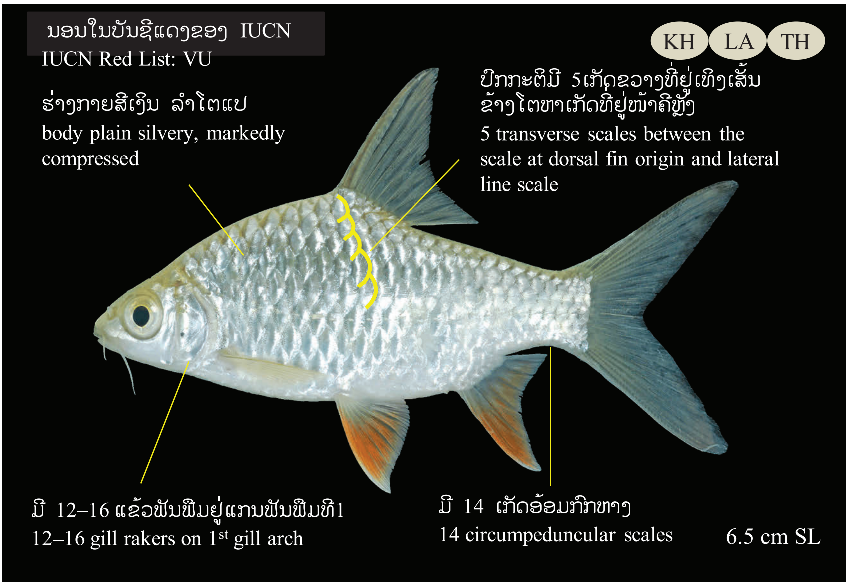
ປາມີ່ນໂຈກ *Hemibarbus maculatus* Bleeker, 1871



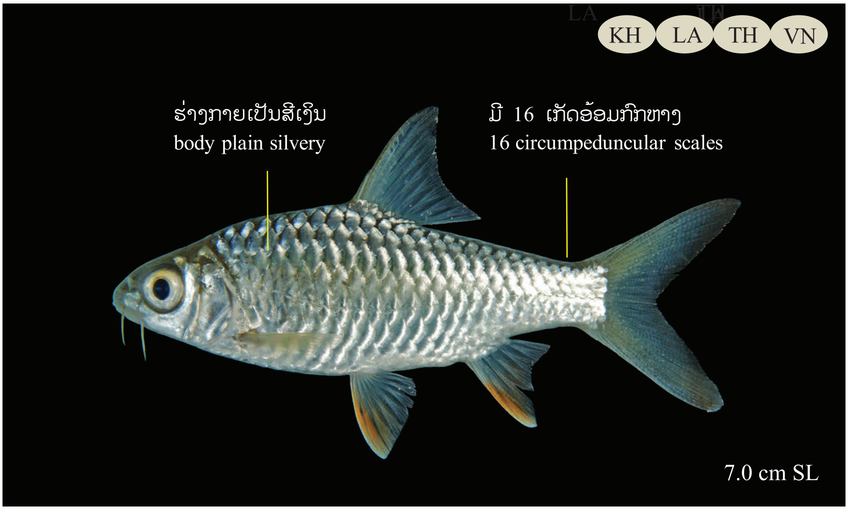
ປາເສດ *Hemiculterella macrolepis* (Chen, 1989)



ປາປາກແປ *Hypsibarbus lagleri* Rainboth, 1996

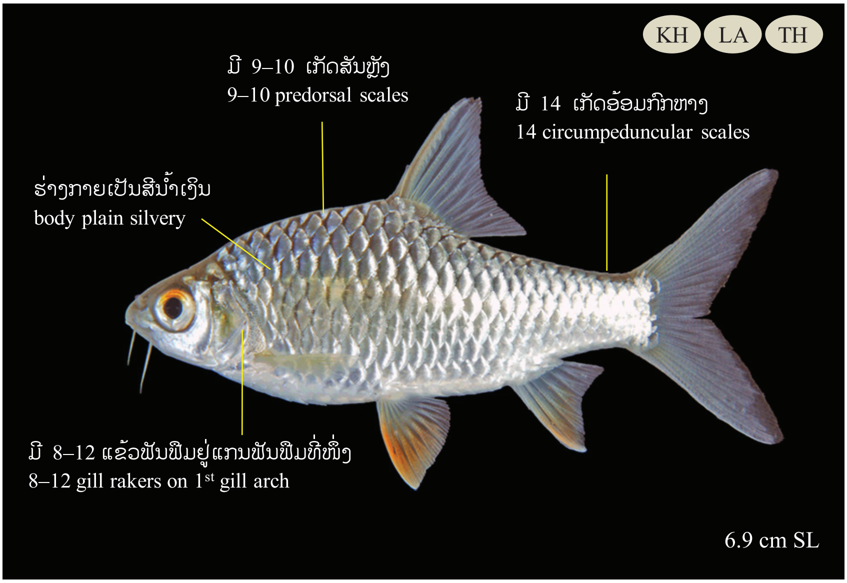


ປາປາກກົມ *Hypsibarbus malcolmi* (Smith, 1945)

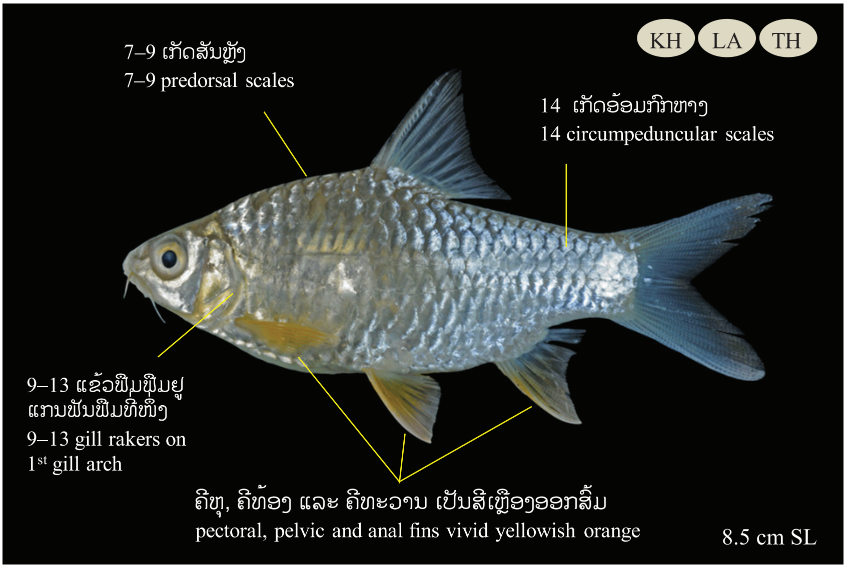


ຕະກຸນປາປາກ CYPRINIDAE CYPRINIFORMES

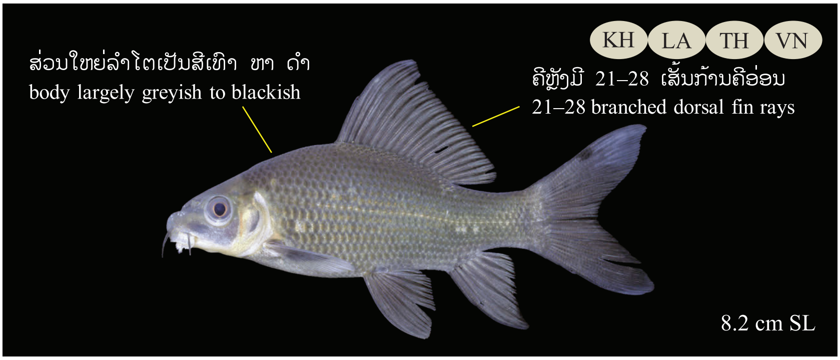
ປາປີກເຫຼືອງ *Hypsibarbus vernayi* (Norman, 1925)



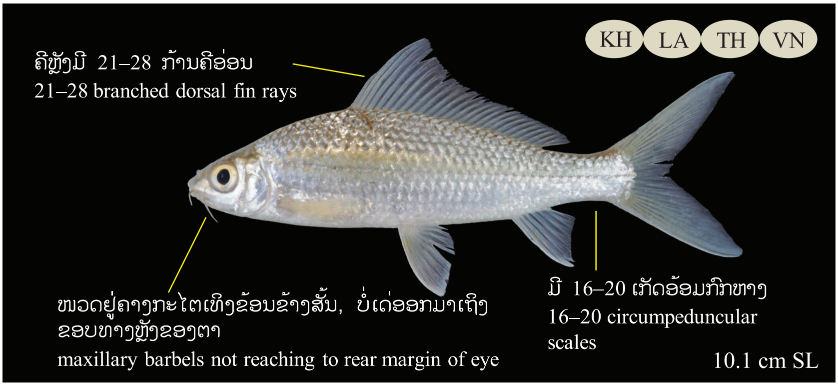
ປາປາກຄຳ *Hypsibarbus wetmorei* (Smith, 1931)



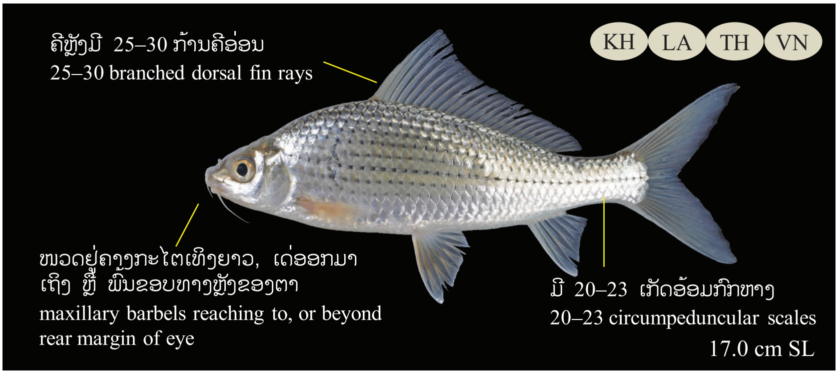
ປາເພ້ຍກ່ຳ *Labeo chrysophekadion* (Bleeker, 1849)



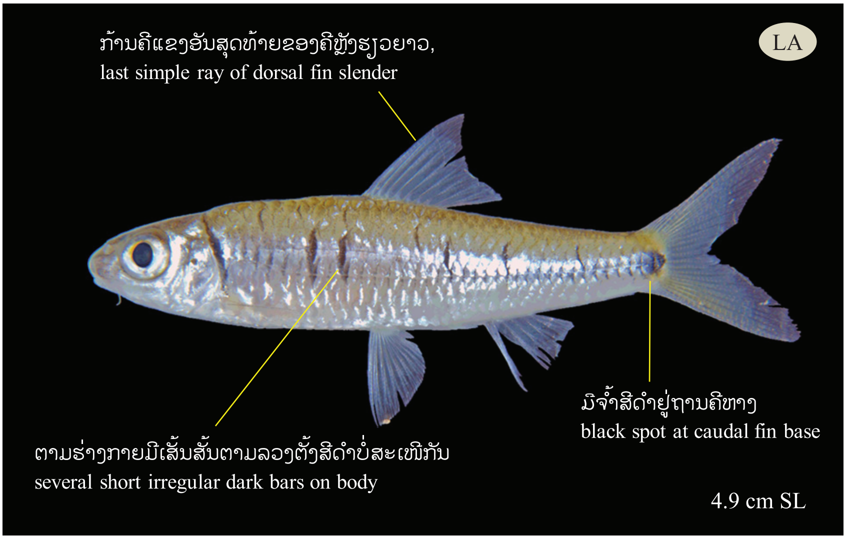
ປາຄີລາມ *Labiobarbus leptocheilus* (Valenciennes, 1842)



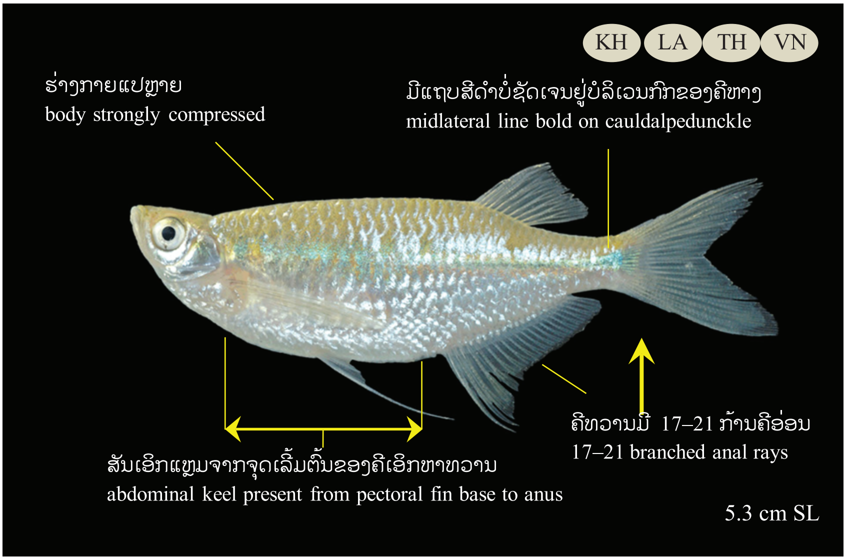
ປາຄີລາມ *Labiobarbus siamensis* (Sauvage, 1881)



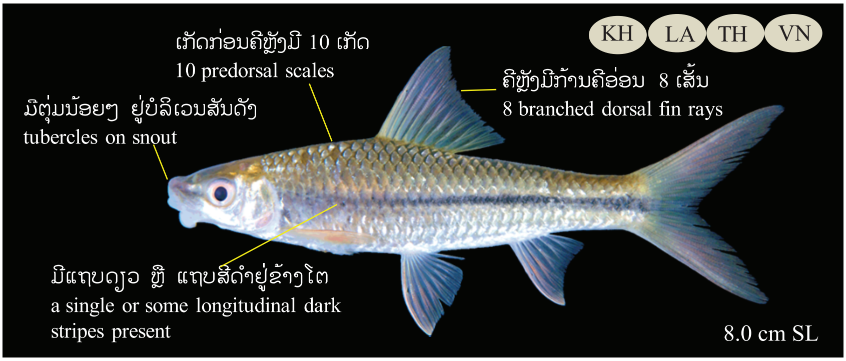
ປາຂາວລາວ *Laocypris hispida* Kottelat, 2000



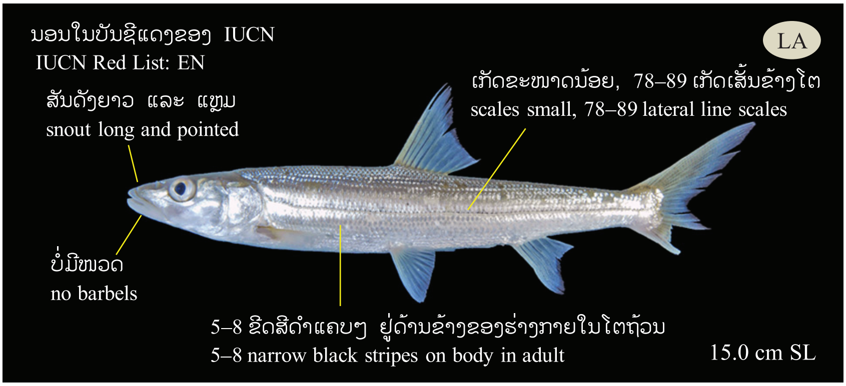
ປາແຕບຫົວເປີດ *Laubuka siamensis* (Fowler, 1939)



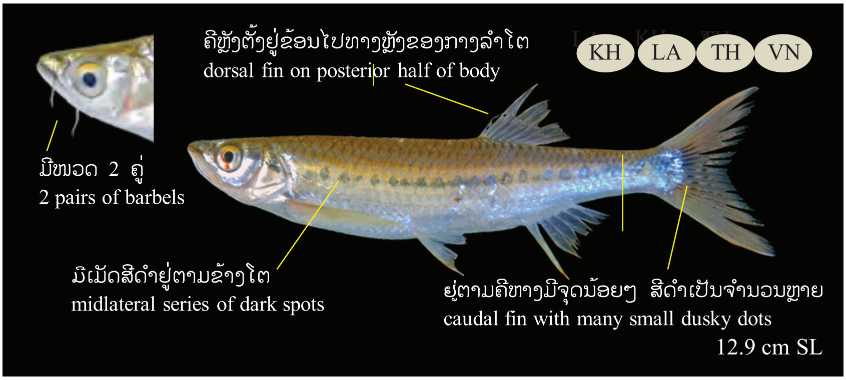
ປາຄຸງຂ້າງລາຍ *Lobocheilos rhabdoura* (Fowler, 1934)



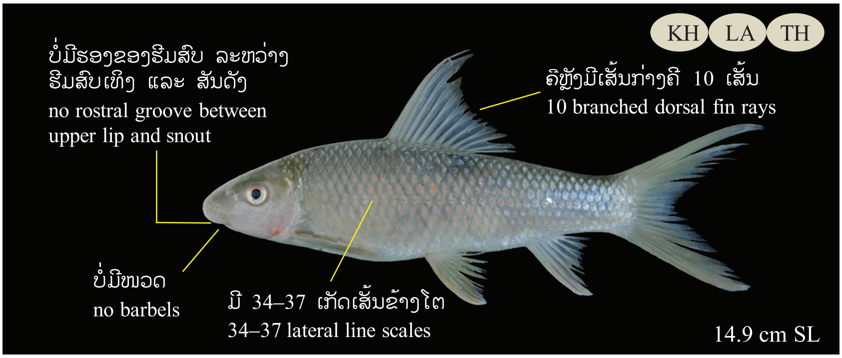
ປາສາກ *Luciocyprinus striolatus* Cui & Chu, 1986



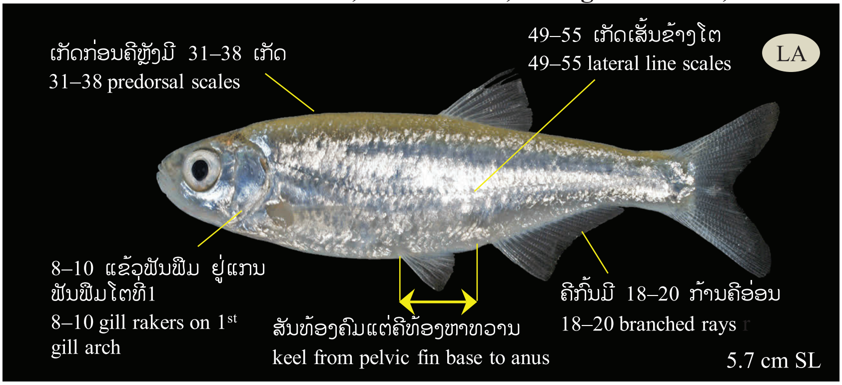
ປາໝາກຫວາຍ, ປາປອມ *Luciosoma bleekeri* Steindachner, 1878



ປາສະອີ *Mekongina erythrospila* Fowler, 1937

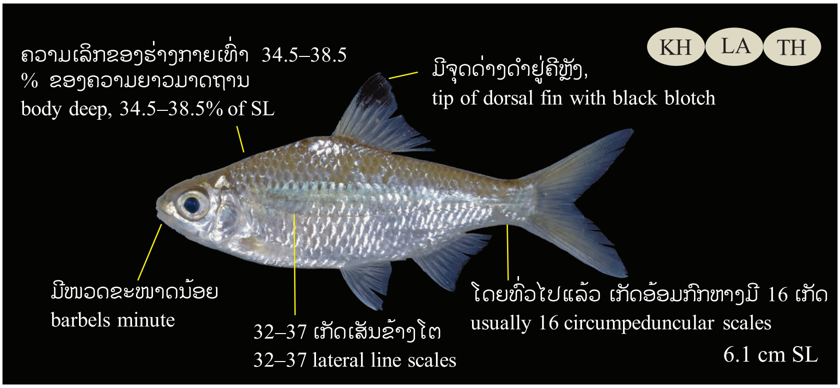


ປາແຕບທິບ
Metzia bounthobi Shibukawa, Phousavanh, Phongsa & Iwata, 2012

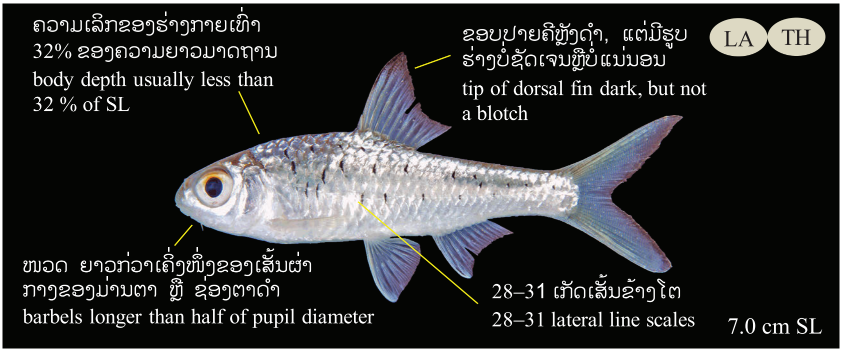


ປາຄີເກາະ *Mystacoleucus atridorsalis* Fowler, 1937

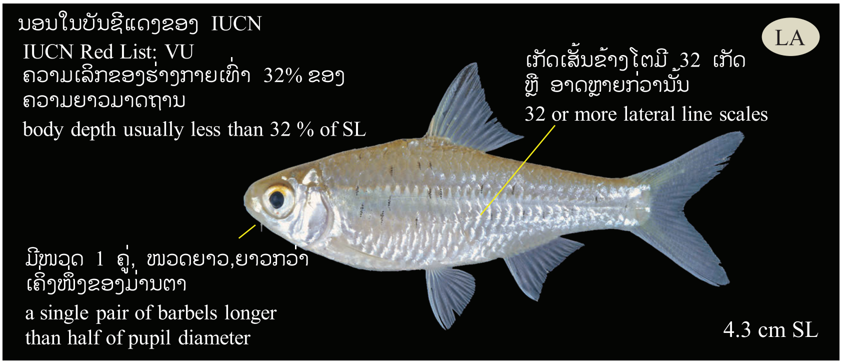
ປາຄີເກາະ *Mystacoleucus ectypus* Kottelat, 2000



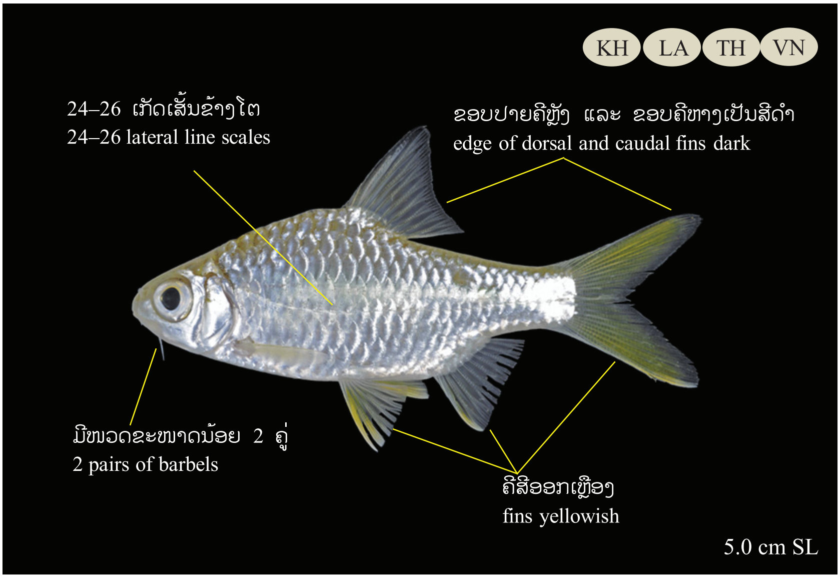
ປາຄີເກາະຂ້າງລາຍ *Mystacoleucus greenwayi* Pellegrin & Fang, 1940



ປາຄີເກາະ *Mystacoleucus lepturus* Huang, 1979

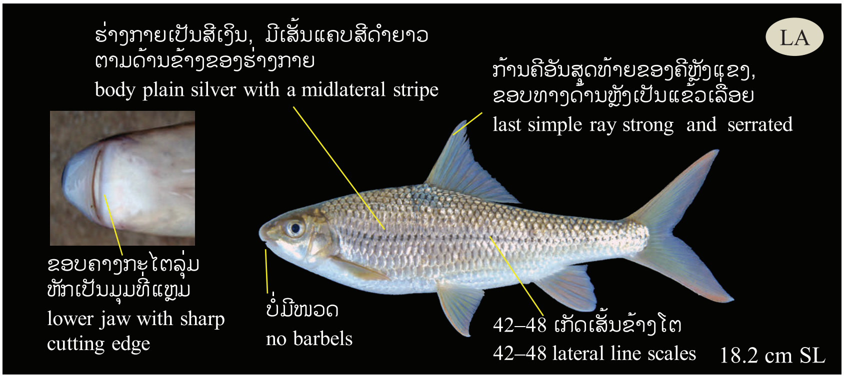


ປາຄີເກາະຫາງເຫຼືອງ *Mystacoleucus obtusirostris* (Valenciennes, 1842)



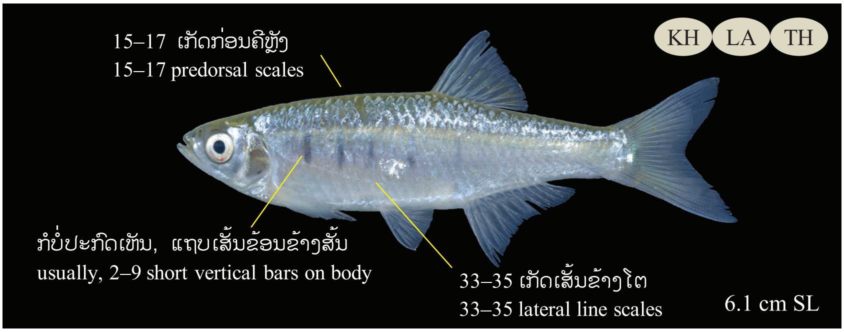
ປາໂພງ *Neolissochilus stracheyi* (Day, 1871)

ປາຄີງ *Onychostoma gerlachi* (Peters, 1881)

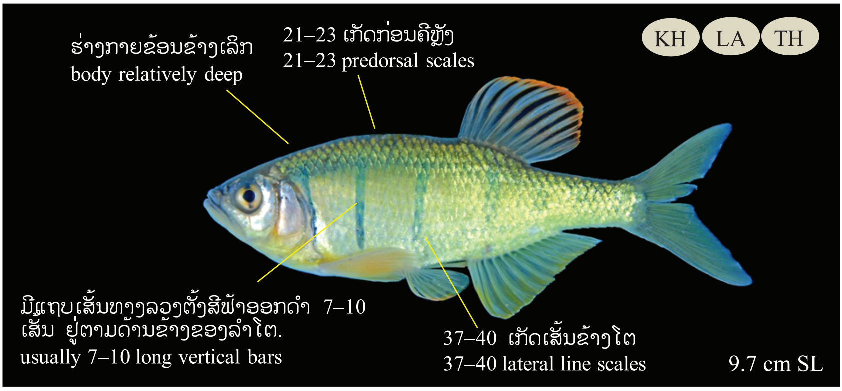


ປາຂາມ *Opsariichthys bidens* Günther, 1873

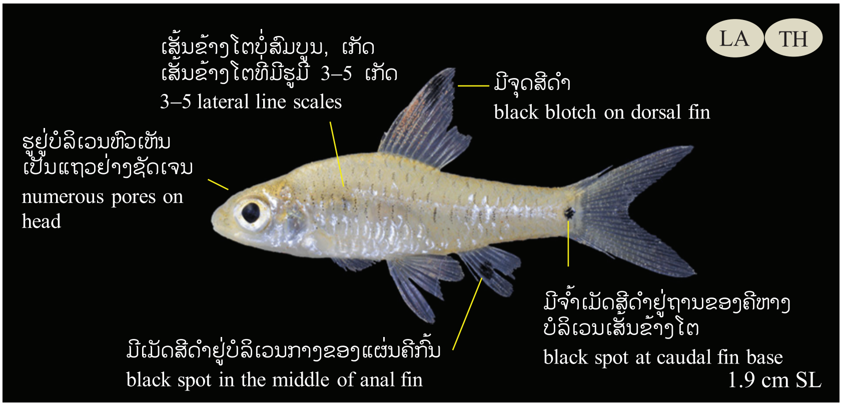
ປາຂັ້ນເຮືອລາຍຈາງ *Opsarius koratensis* (Smith, 1931)



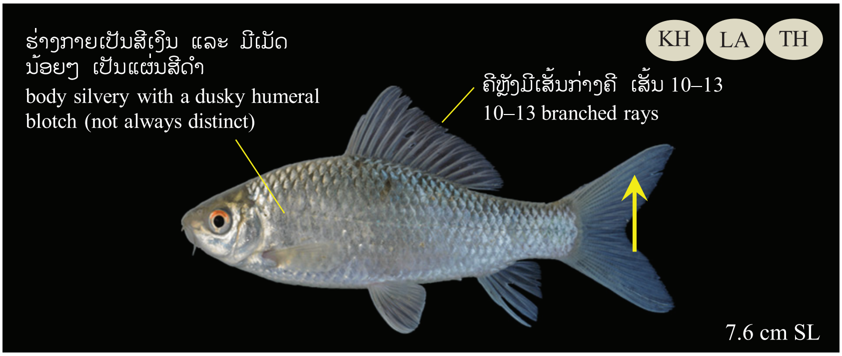
ປາຂັ້ນເຮືອລາຍແຈ້ງ *Opsarius pulchellus* (Smith, 1931)



ປາຄີຈ້ຳ *Oreichthys parvus* Smith, 1933

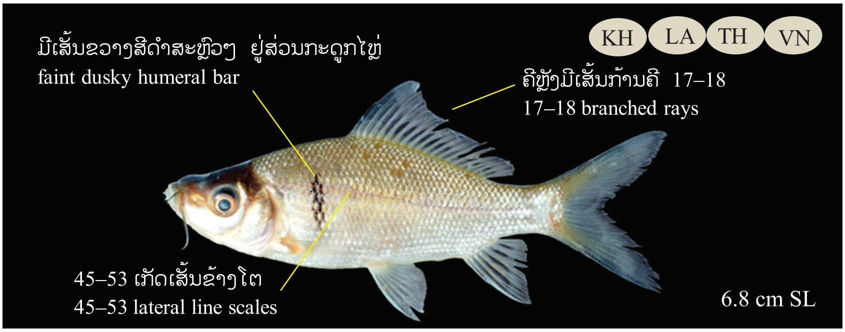


ປາໜ້າມຸມ *Osteochilus lini* Fowler, 1935

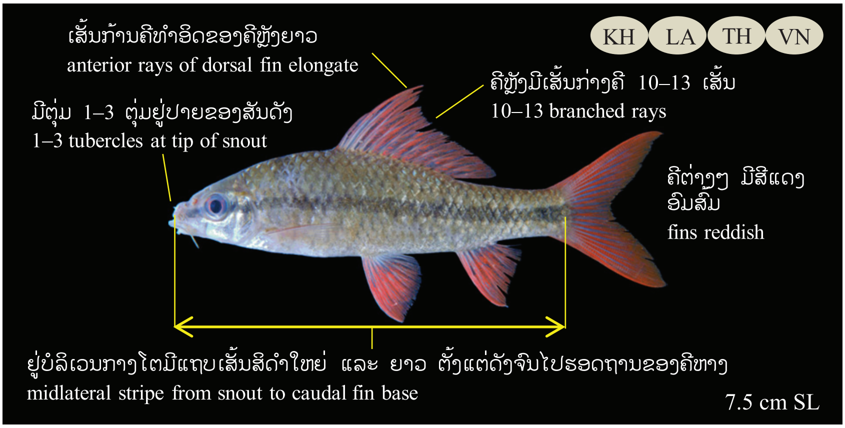


ຕະກຸນປາປາກ CYPRINIDAE CYPRINIFORMES

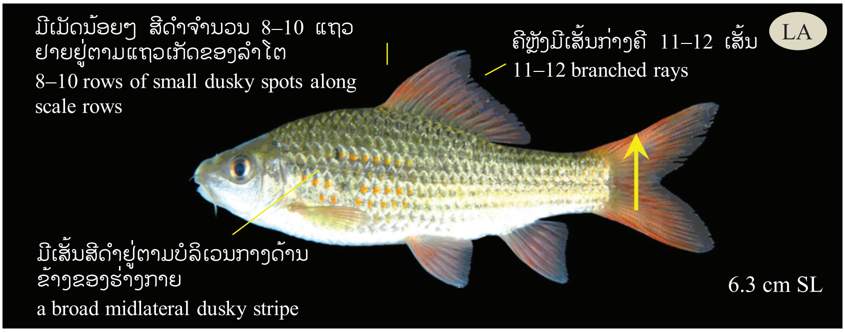
ປານົກເຂົາ *Osteochilus melanopleura* (Bleeker, 1852)



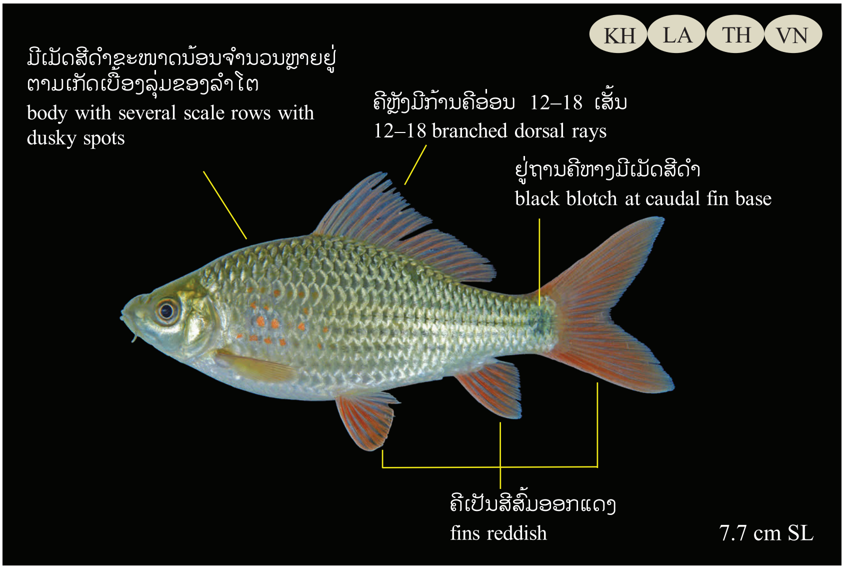
ປາອີ່ໄທຂ້າງແຖບ *Osteochilus microcephalus* (Valenciennes, 1842)



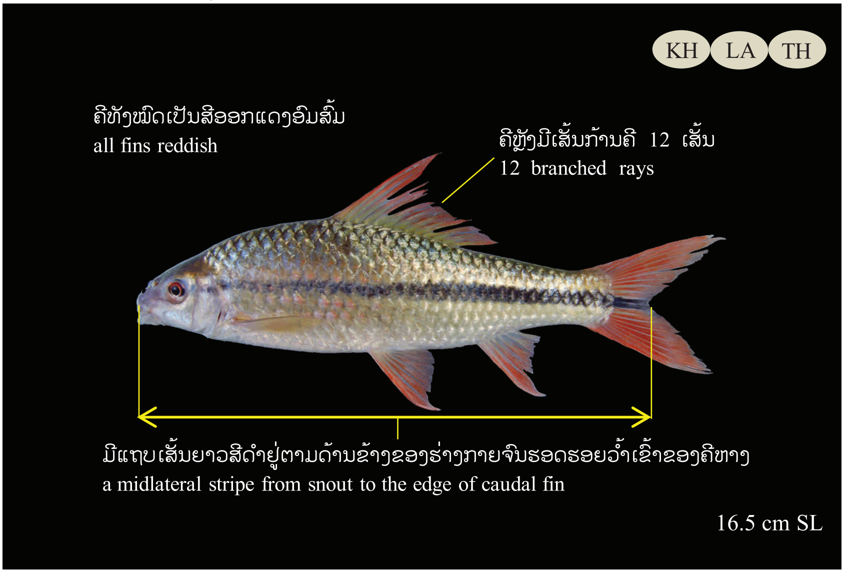
ປາອີ່ໄທ *Osteochilus striatus* Kottelat, 1998



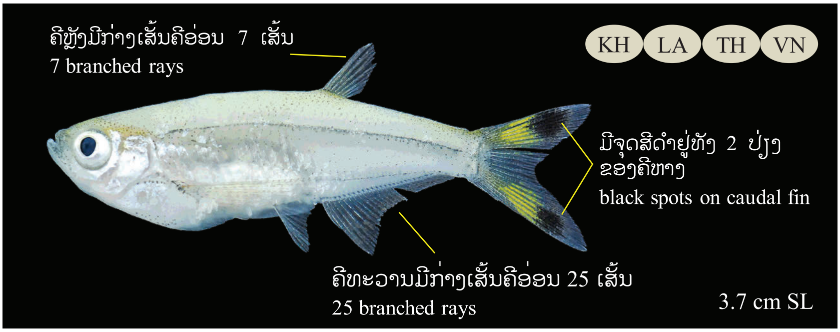
ປາຂີ້ກະເພີ, ປາຂາວມົ້ງ *Osteochilus vittatus* (Valenciennes, 1842)



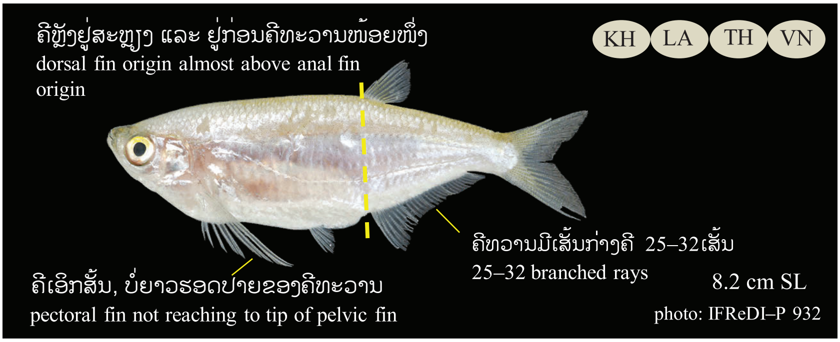
ປາອີ່ໄຫຂ້າງແຖບສຸດ *Osteochilus waandersii* (Bleeker, 1853)



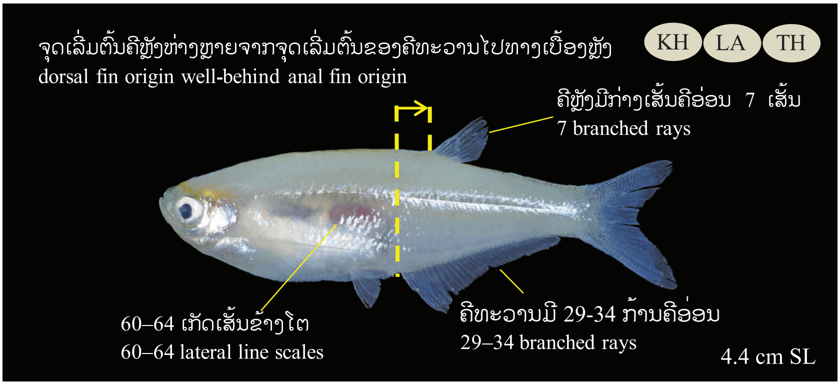
ປາແຕບຫາງຈ້ຳ *Parachela maculicauda* (Smith, 1934)



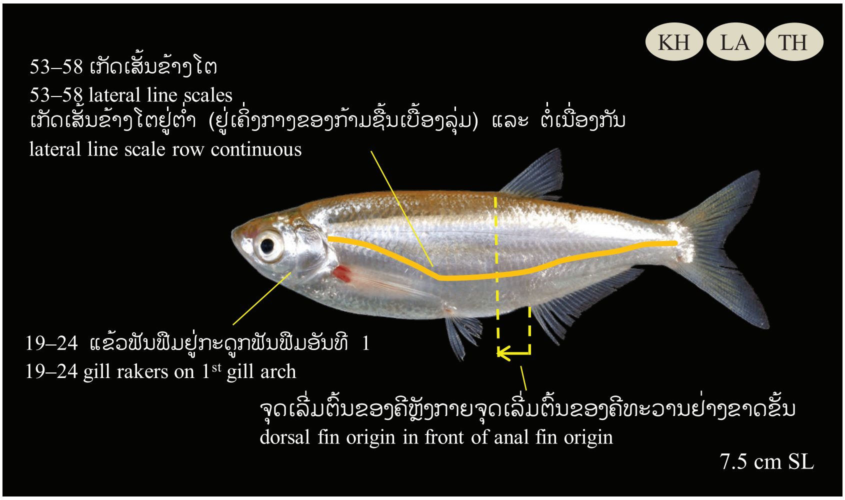
ປາແຕບ *Parachela siamensis* (Günther, 1868)



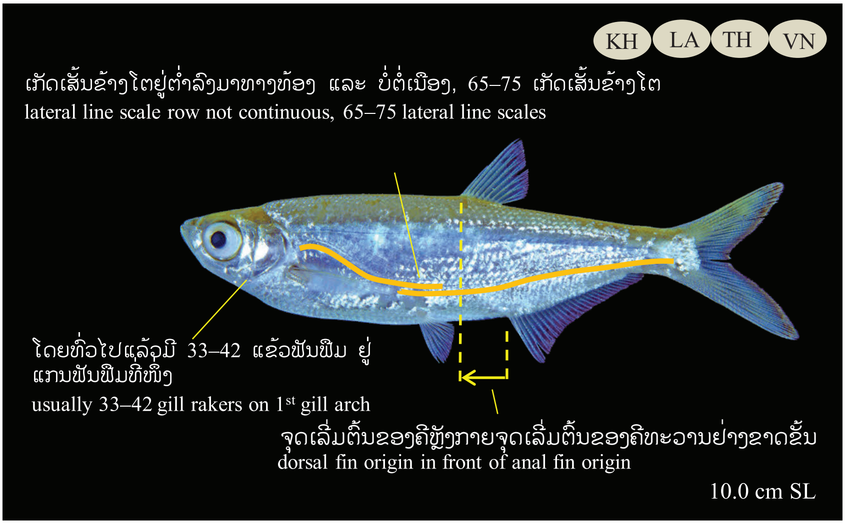
ປາແຕບ *Parachela* sp.



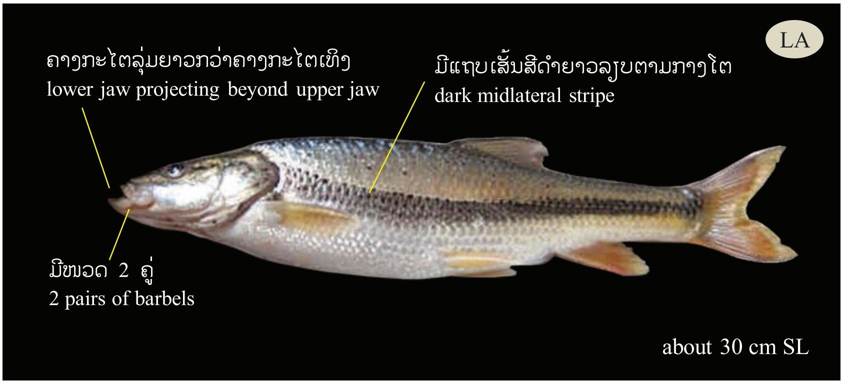
ປາແຕບ *Paralaubuca barroni* (Fowler, 1934)



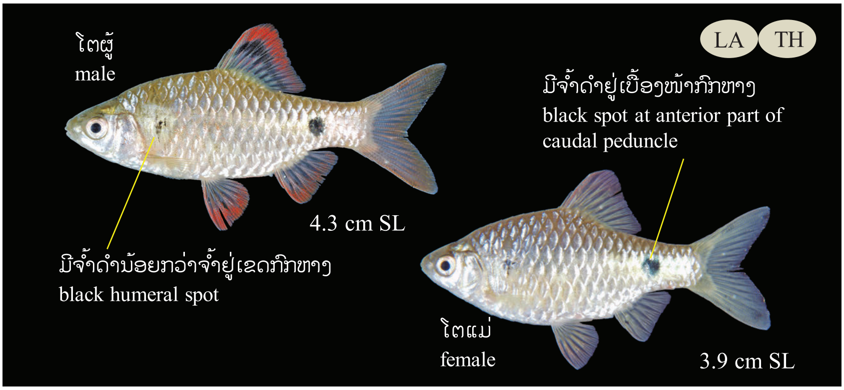
ປາແຕບ *Paralaubuca typus* Bleeker, 1864



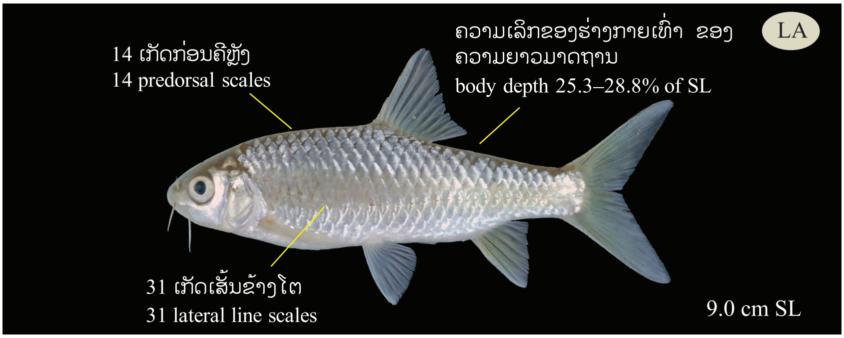
ປາຍ້ອຍ *Percocypris tchangi* (Pellegrin & Chevey, 1936)



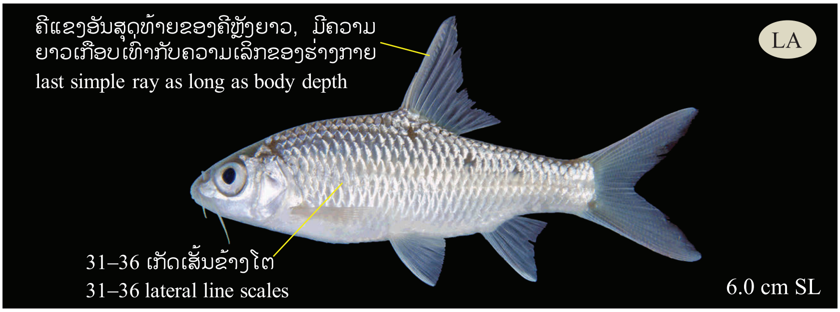
ປາຂາວຄີຫາງແດງ *Pethia stoliczkana* (Day, 1870)



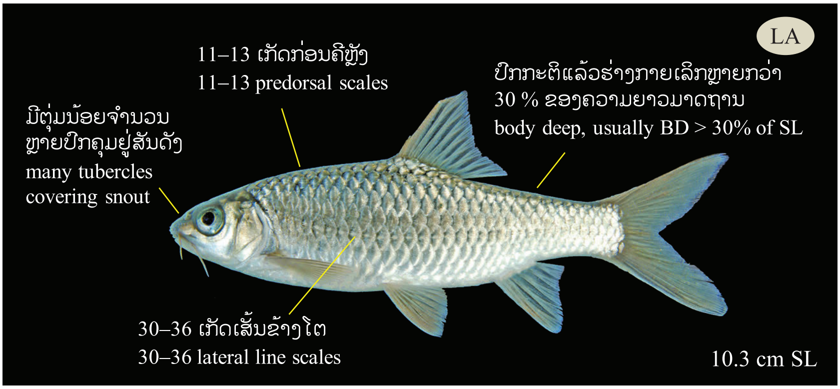
ປາຈາດ *Poropuntius angustus* Kottelat, 2000



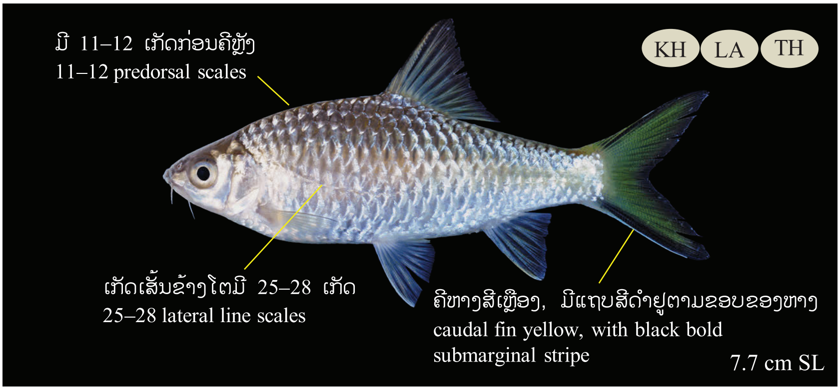
ປາຈາດ *Poropuntius carinatus* (Wu & Lin, 1977)



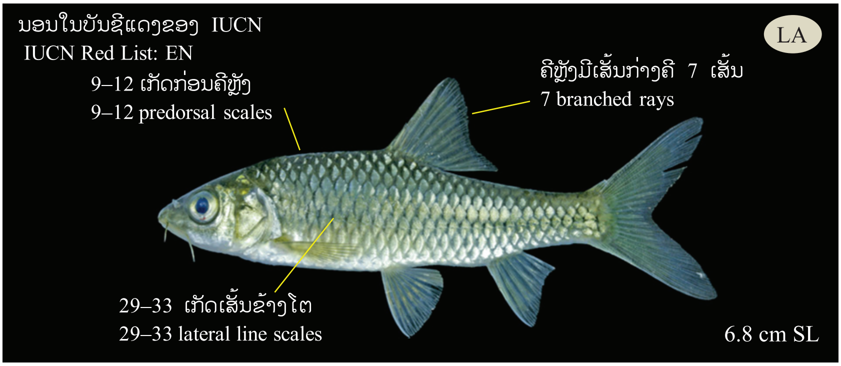
ປາຈາດ *Poropuntius laoensis* (Günther, 1868)



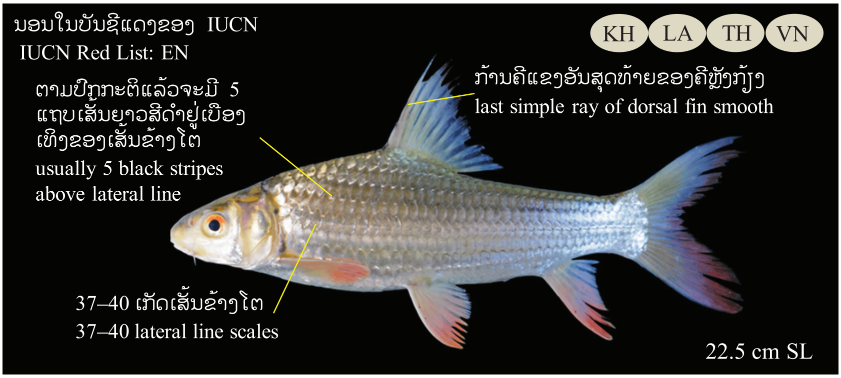
ປາຈາດ *Poropuntius normani* Smith, 1931



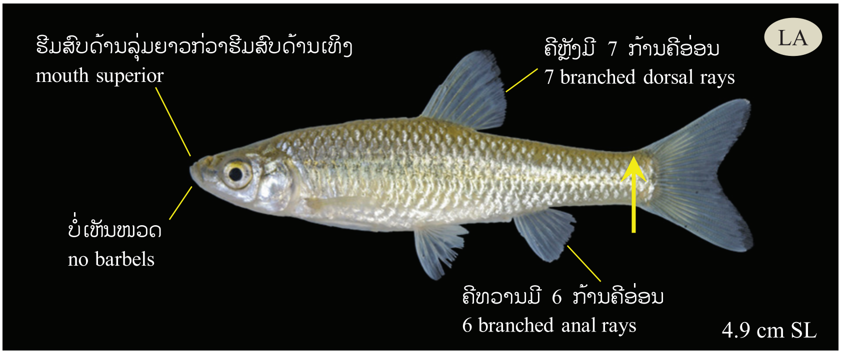
ປາຈາດ *Poropuntius solitus* Kottelat, 2000



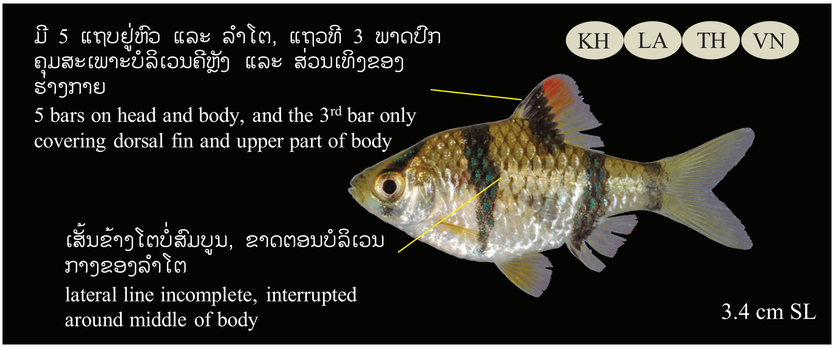
ປາເອີນ *Probarbus jullieni* Sauvage, 1880



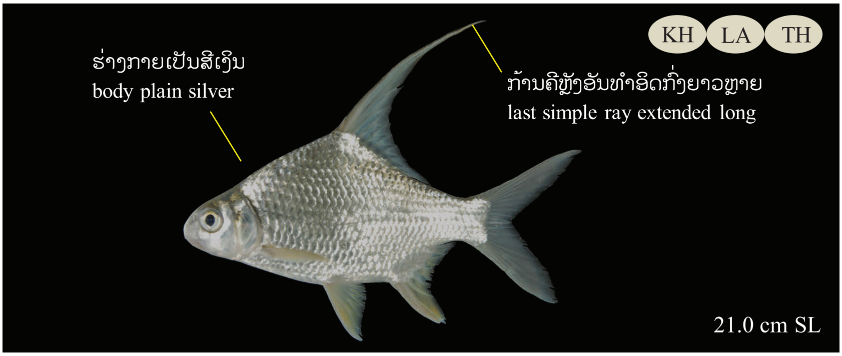
ປາຊິວປອມ *Pseudorasbora parva* (Temminck & Schlegel, 1846)



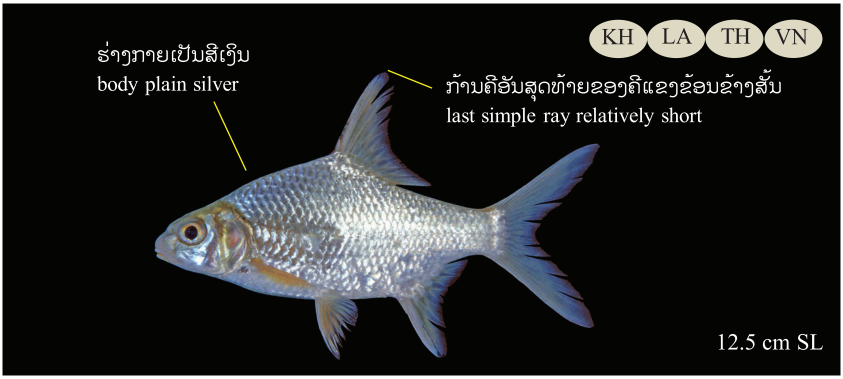
ປາເສືອ *Puntigrus partipentazona* (Fowler, 1934)



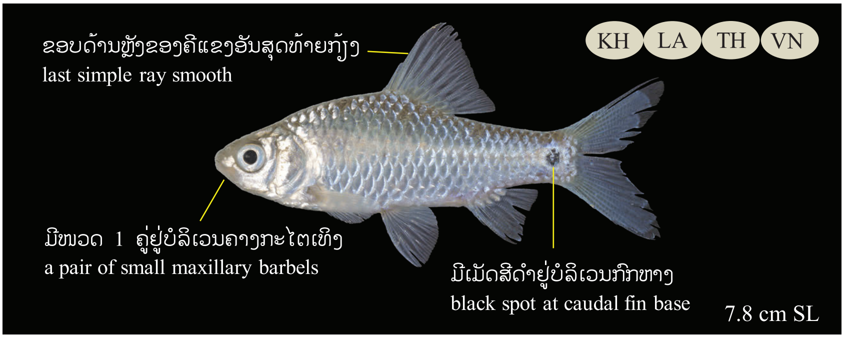
ປາສະກາງຄີກິ່ງ *Puntioplites falcifer* Smith, 1929



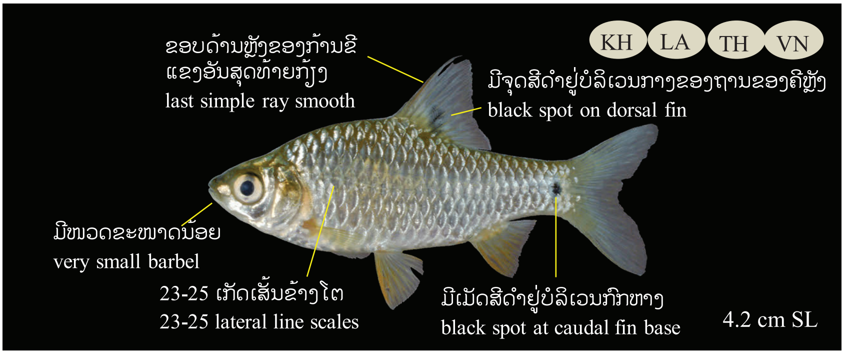
ປາສະກາງ *Puntioplites proctozysron* (Bleeker, 1864)



ປາຂາວ *Puntius brevis* (Bleeker, 1849)



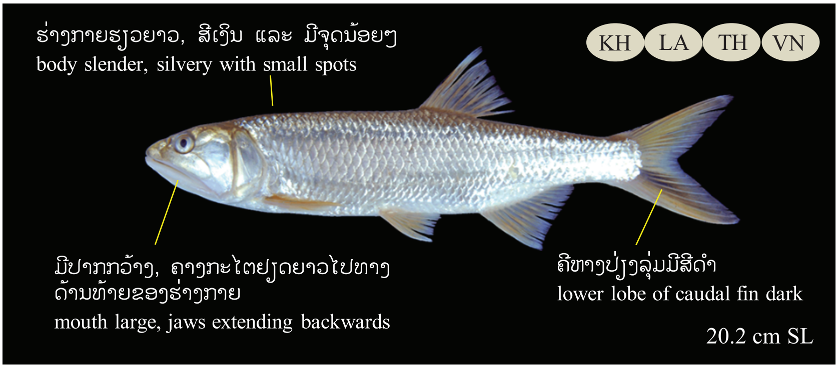
ປາຂາວ *Puntius masyai* Smith, 1945



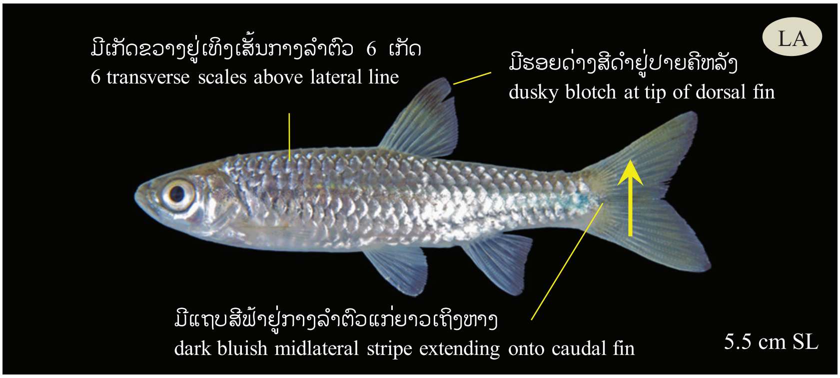
ປາປີກ *Systomus rubripinnis* (Valenciennes, 1842)

ຕະກູນປາປາກ CYPRINIDAE CYPRINIFORMES

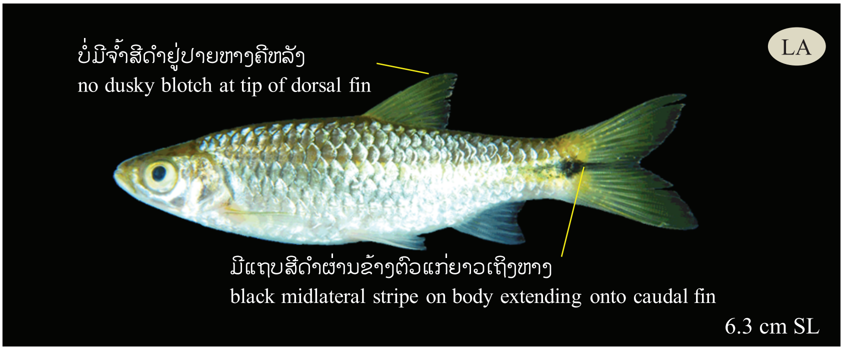
ປາສະບາກ *Raiamas guttatus* (Day, 1870)



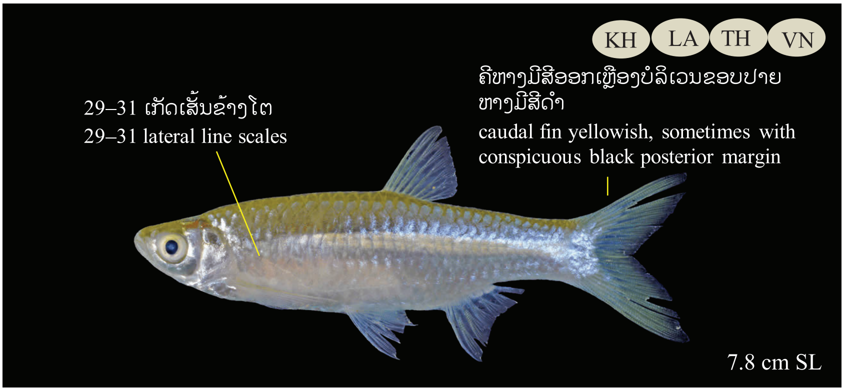
ປາຊິວຫາງຟ້າ *Rasbora atridorsalis* Kottelat & Chu, 1988



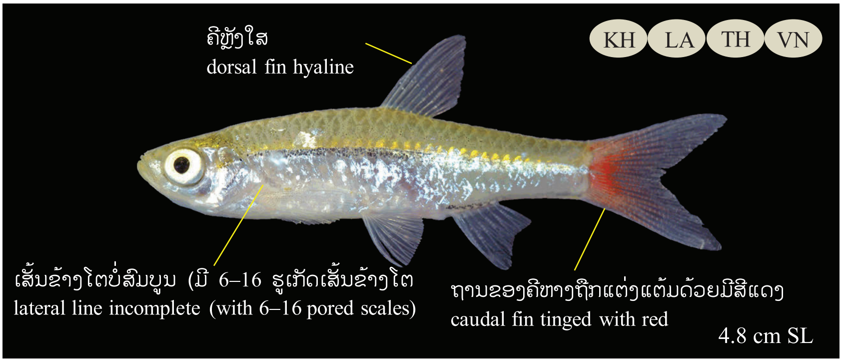
ປາຊິວ *Rasbora* cf. *atridorsalis*



ປາຊິວອ້າວ *Rasbora aurotaenia* Tirant, 1885

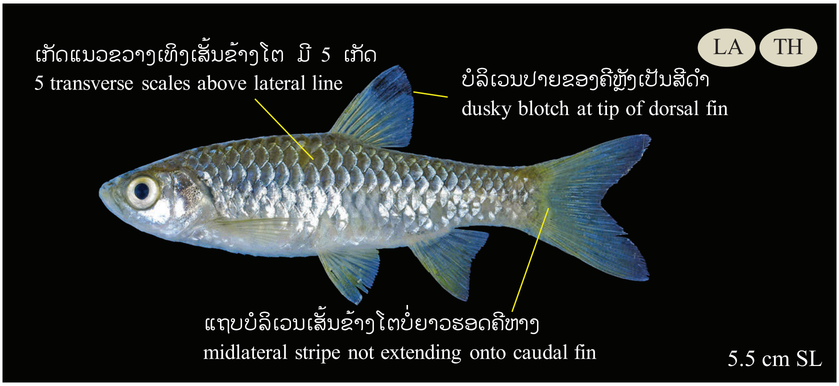


ປາຊິວຫາງແດງ *Rasbora borapetensis* Smith, 1934



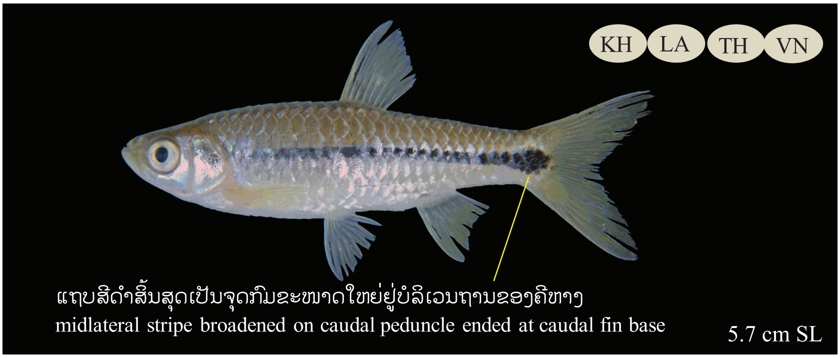
ປາຊິວ *Rasbora daniconius* (Hemilton, 1822)

ປາຊິວ *Rasbora dorsinotata* Kottelat, 1988

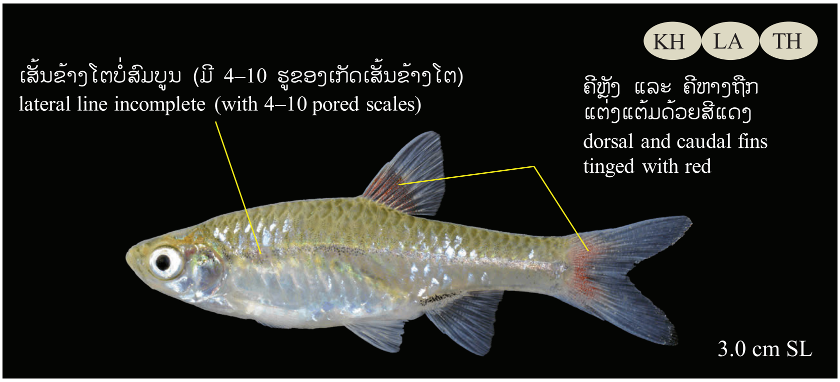


ປາຊິວ *Rasbora myersi* Brittan, 1954

ປາຊິວ *Rasbora paviana* Tirant, 1885

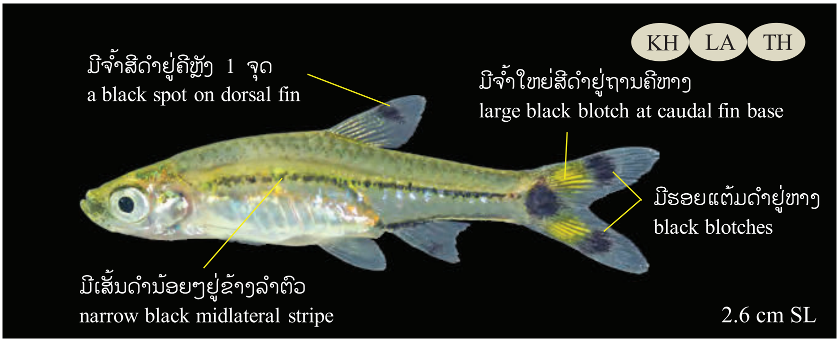


ປາຊິວ *Rasbora rubrodorsalis* Donoso–Büchner & Schmidt, 1997

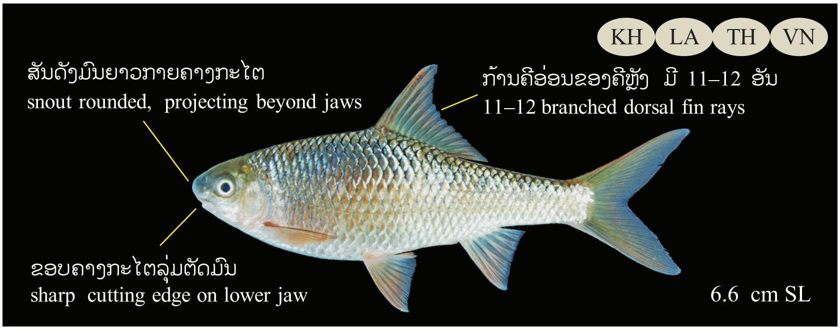


ປາຊິວຫາງລາຍ *Rasbora trilineata* Steindachner, 1870

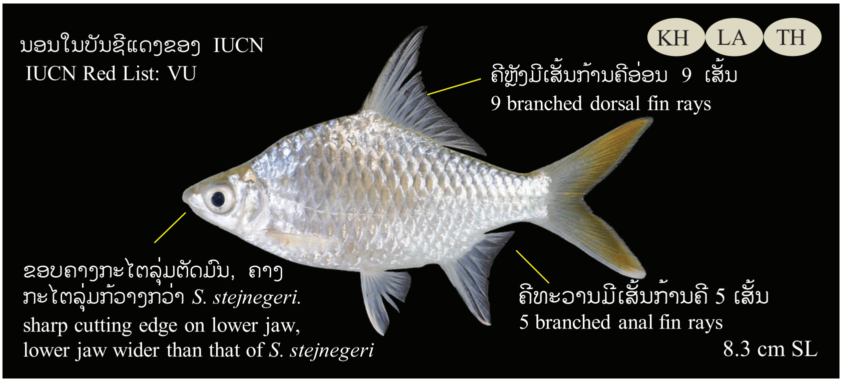
ປາຊິວຫາງຈ້ຳ *Rasbosoma spilocerca* (Rainboth & Kottelat, 1987)



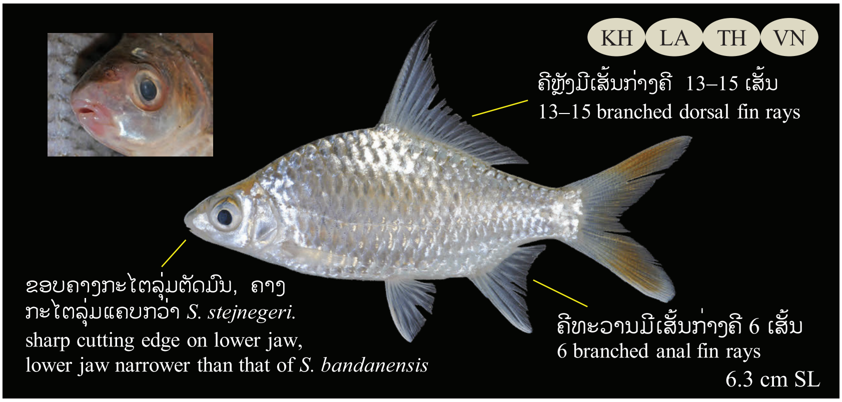
ປາມ້ອມ, ປາແກ້ມແດງ *Scaphiodonichthys acanthopterus* (Fowler, 1934)



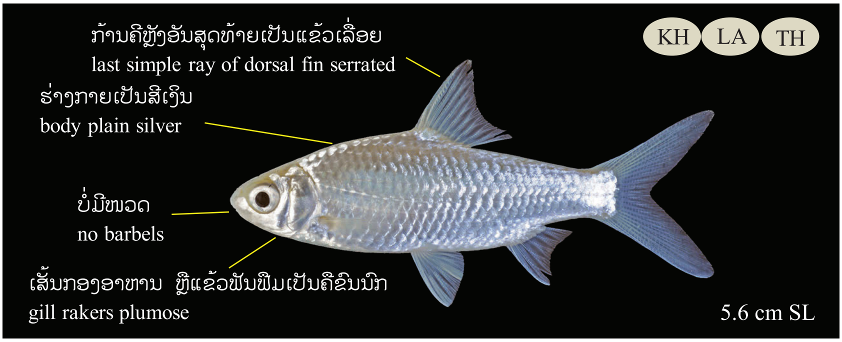
ປາປ່ຽນ
Scaphognathops bandanensis Boonyaratpalin & Srirungroj, 1971



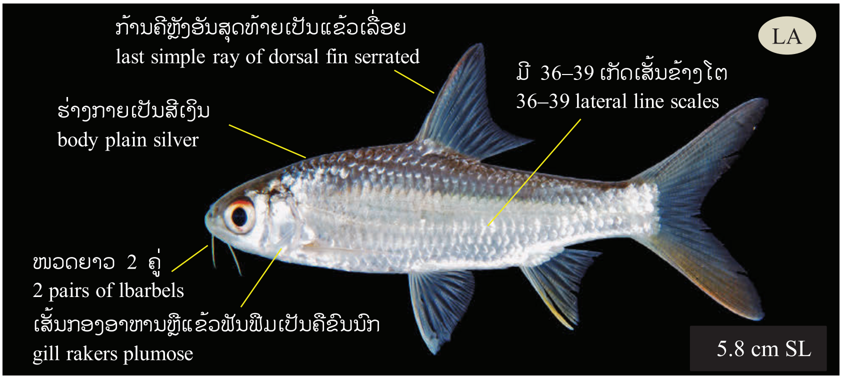
ປາປ່ຽນ *Scaphognathops stejnegeri* (Smith, 1931)



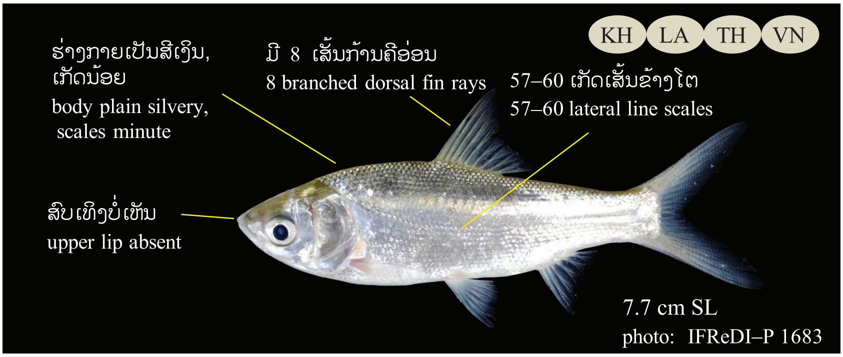
ປາໝາກມາງ, ປາຂາວຊາຍ *Sikukia gudgeri* (Smith, 1934)



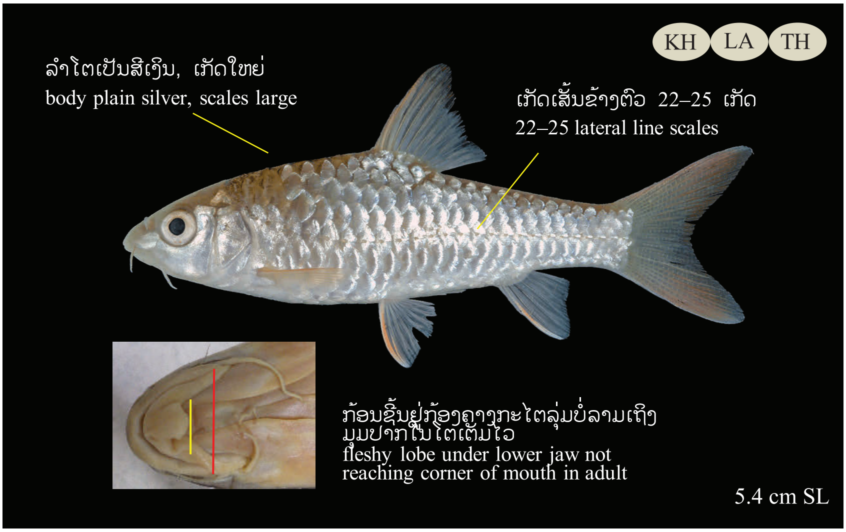
ປາໝາກມາງໜວດ *Sikukia longibarbata* Li, Chen, Yang & Chen, 1998



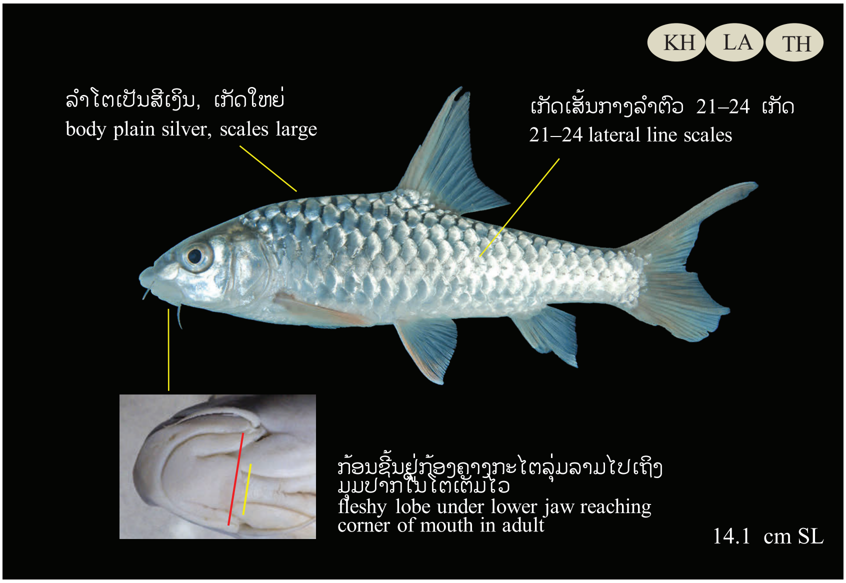
ປາກຸ່ມ, ປາໂມກ *Thynnichthys thynnoides* (Bleeker, 1852)



ປາສອງ, ປາກວາ *Tor tambra* (Valenciennes, 1842)



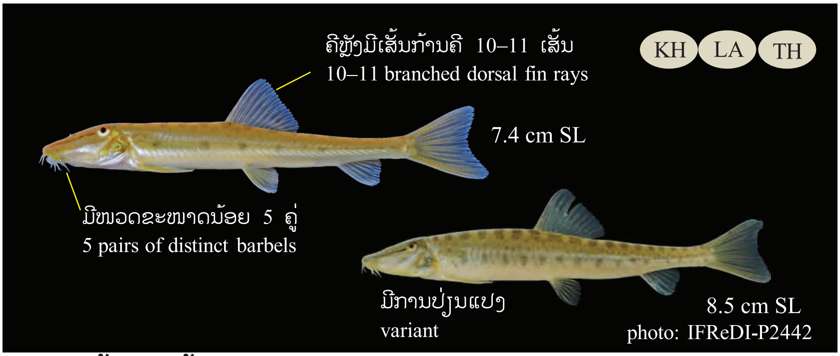
ປາສອງ, ປາກວາ *Tor tambroides* (Bleeker, 1854)



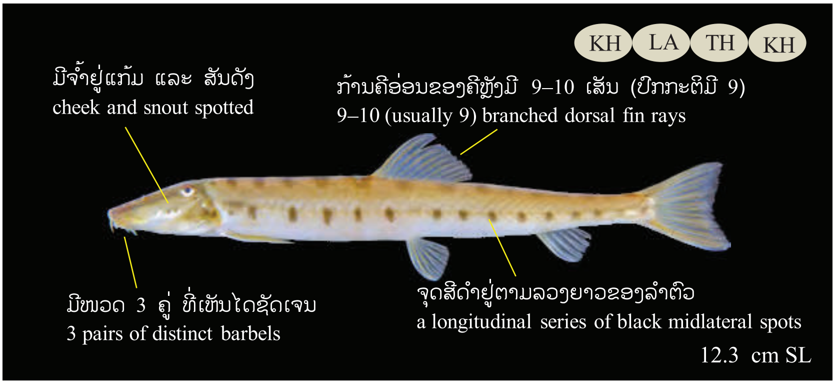
ປາເກາະ *Gyrinocheilus aymonieri* (Tirant, 1884)

ປາເກາະ *Gyrinocheilus pennocki* (Fowler, 1937)

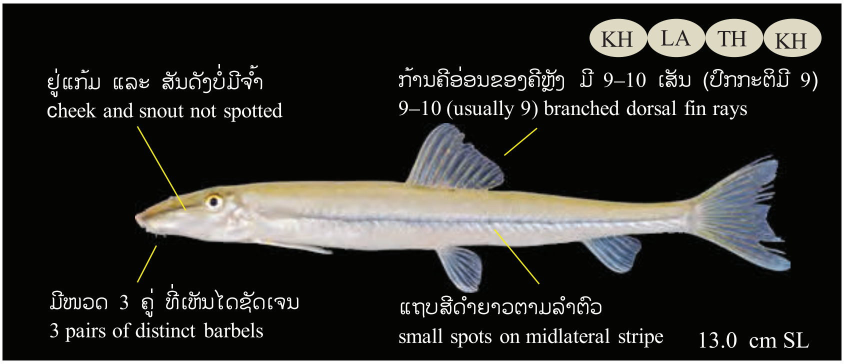
ປາຮາກກ້ວຍຈຸດໃຫຍ່ *Acantopsis dinema* Boyd & Page, 2017



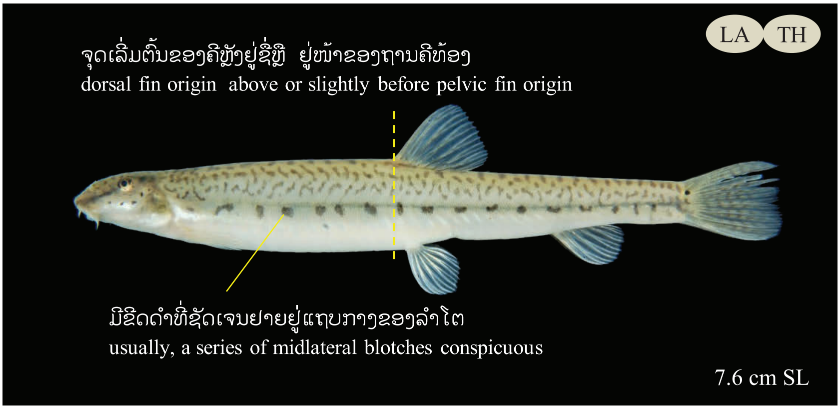
ປາຮາກກ້ວຍຈຸດນ້ອຍ
Acantopsis rungthipae Boyd, Nithirojpakdee & Page, 2017



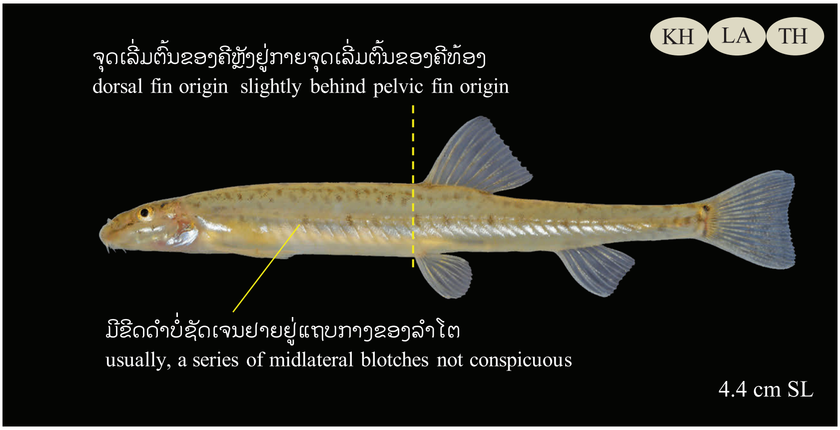
ປາຮາກກ້ວຍແຖບຂ້າງ *Acantopsis ioa* Boyd & Page, 2017



ປາຮາກກ້ວຍ *Aperioptus gracilientus* (Smith, 1945)

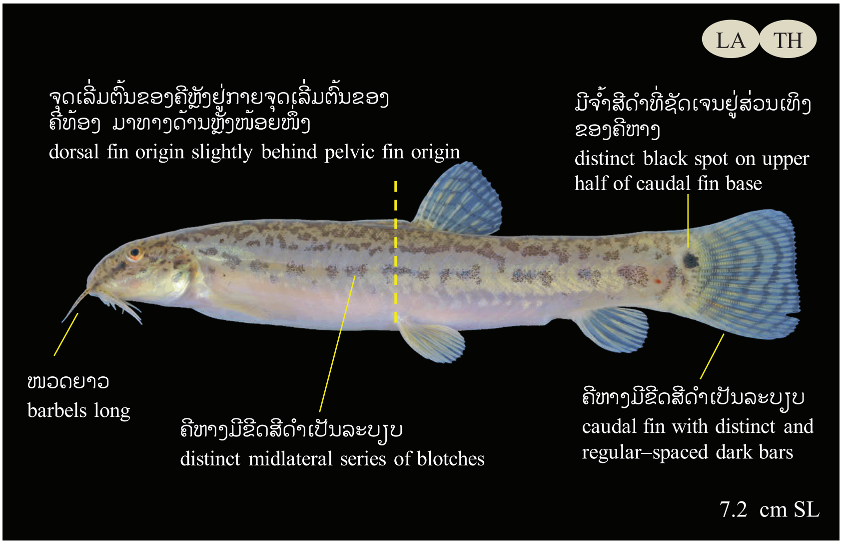


ປາຮາກກ້ວຍ *Aperioptus hapalias* (Siebert, 1991)



ຕະກຸນປາຮາກກ້ວຍ COBITIDAE CYPRINIFORMES

ປາແຂ້ວໄກ້ *Lepidocephalichthys berdmorei* (Blyth, 1860)



ປາແຂ້ວໄກ້ *Lepidocephalichthys hasselti* (Valenciennes, 1846)

ຕະກູນປາຮາກກ້ວຍ COBITIDAE CYPRINIFORMES

ປາກັ່ນດ່ຽງ *Pangio* cf. *anguillaris*

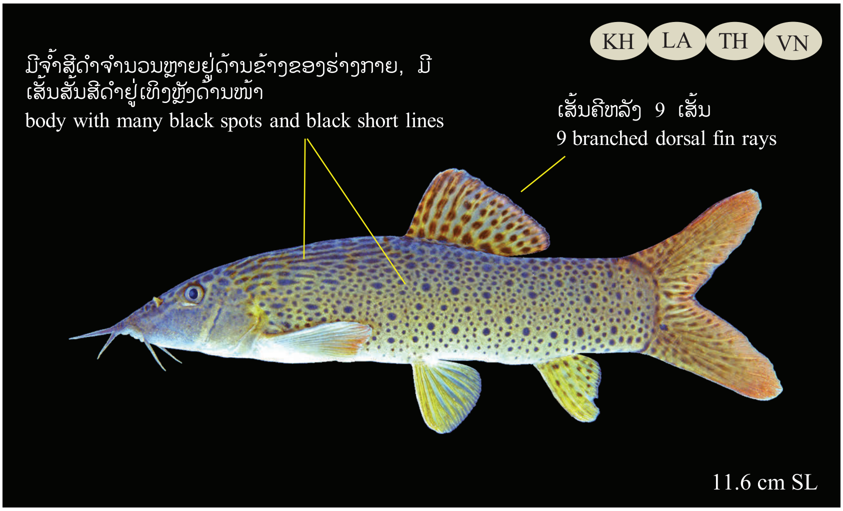
ປາກັ່ນດ່ຽງ *Pangio* cf. *fusca*

ປາກັ່ນດ່ຽງ *Pangio oblonga* (Valenciennes, 1846)

ຕະກູນປາແຂ້ວໄກ້ SERPENTICOBITIDAE CYPRINIFORMES

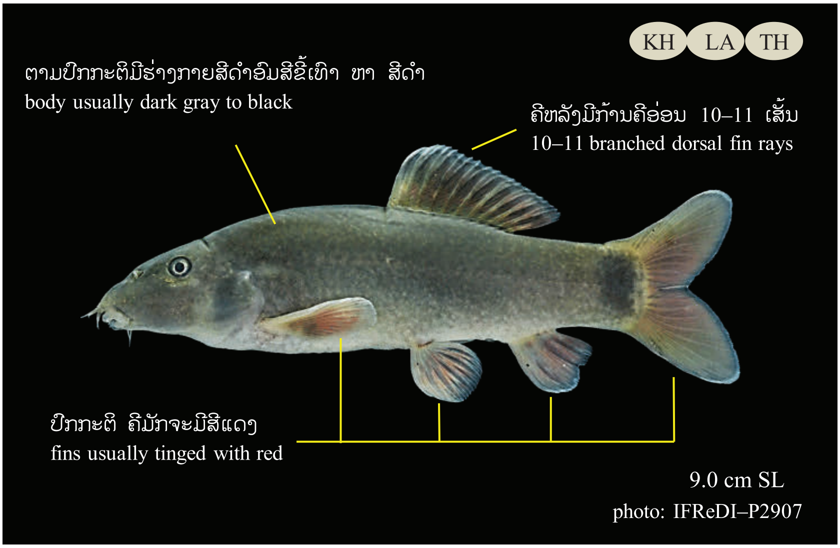
Serpenticobitis octozona Roberts, 1997

ປາໝູມັນລາຍຈ້ຳ *Syncrossus beauforti* (Smith, 1931)

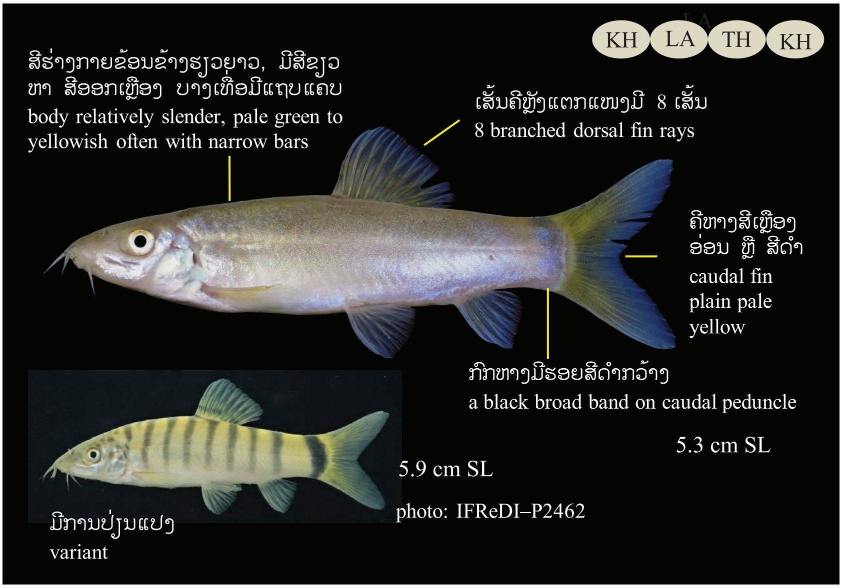


ປາໝູມັນລາຍຂວາງ *Syncrossus helodes* (Sauvage, 1876)

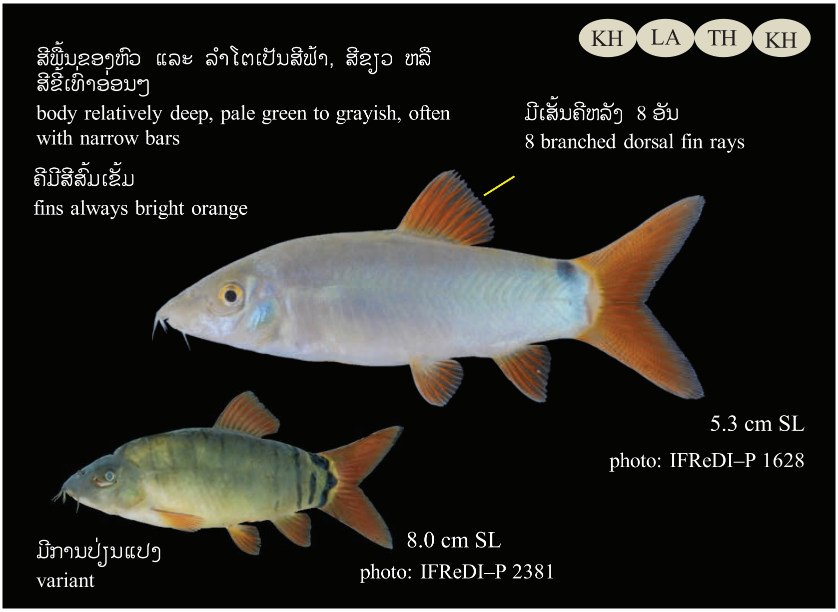
ປາໝູມັນດຳ *Yasuhikotakia eos* (Taki, 1972)



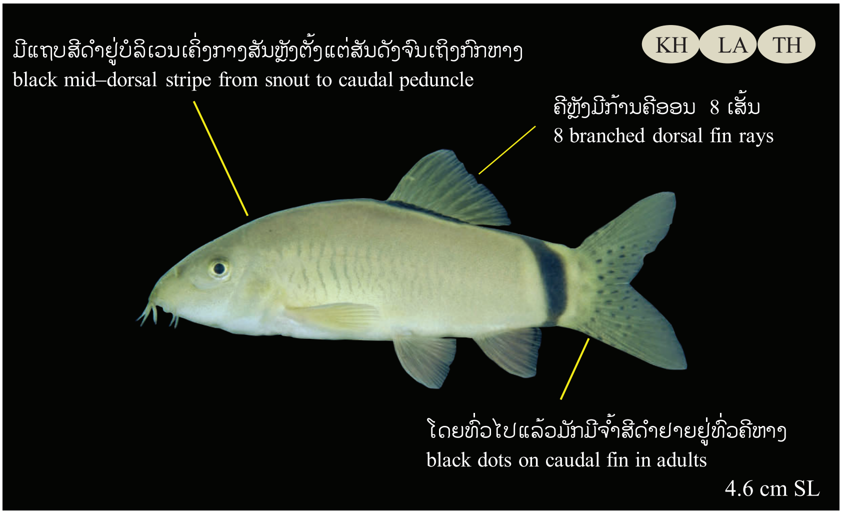
ປາໝູມັນ *Yasuhikotakia lecontei* (Fowler, 1937)



ປາໝູມັນຄີສົ້ມ *Yasuhikotakia modesta* (Bleeker, 1864)

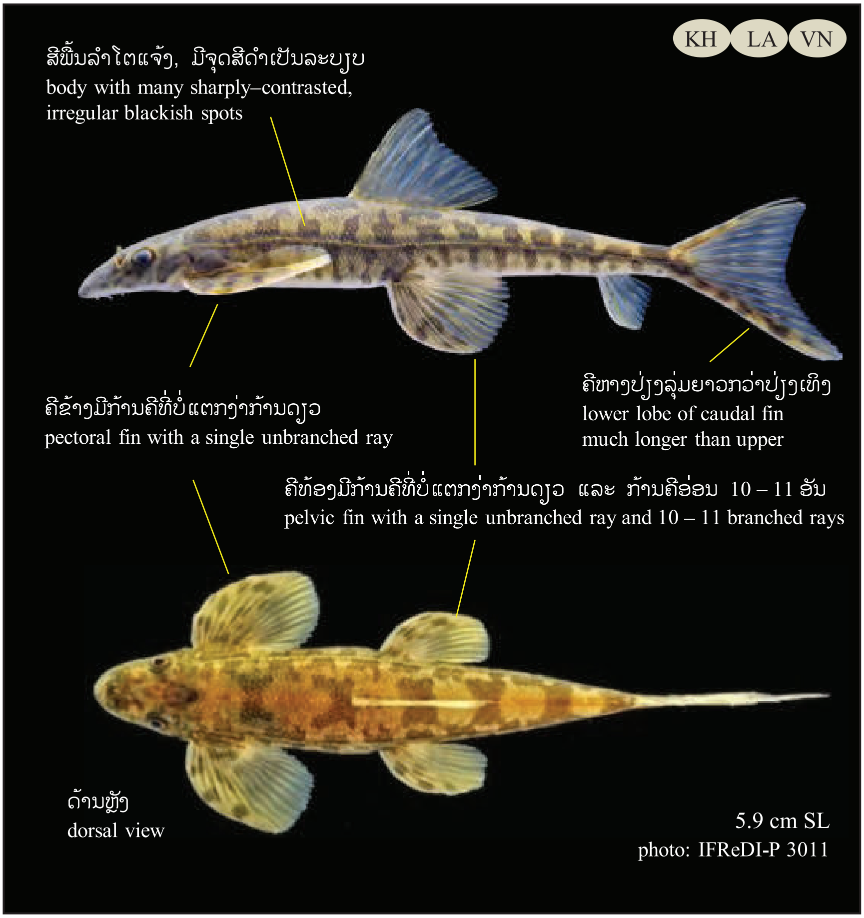


ປາໝູມັນຫຼັງກ່ານ *Yasuhikotakia morleti* (Tirant, 1855)



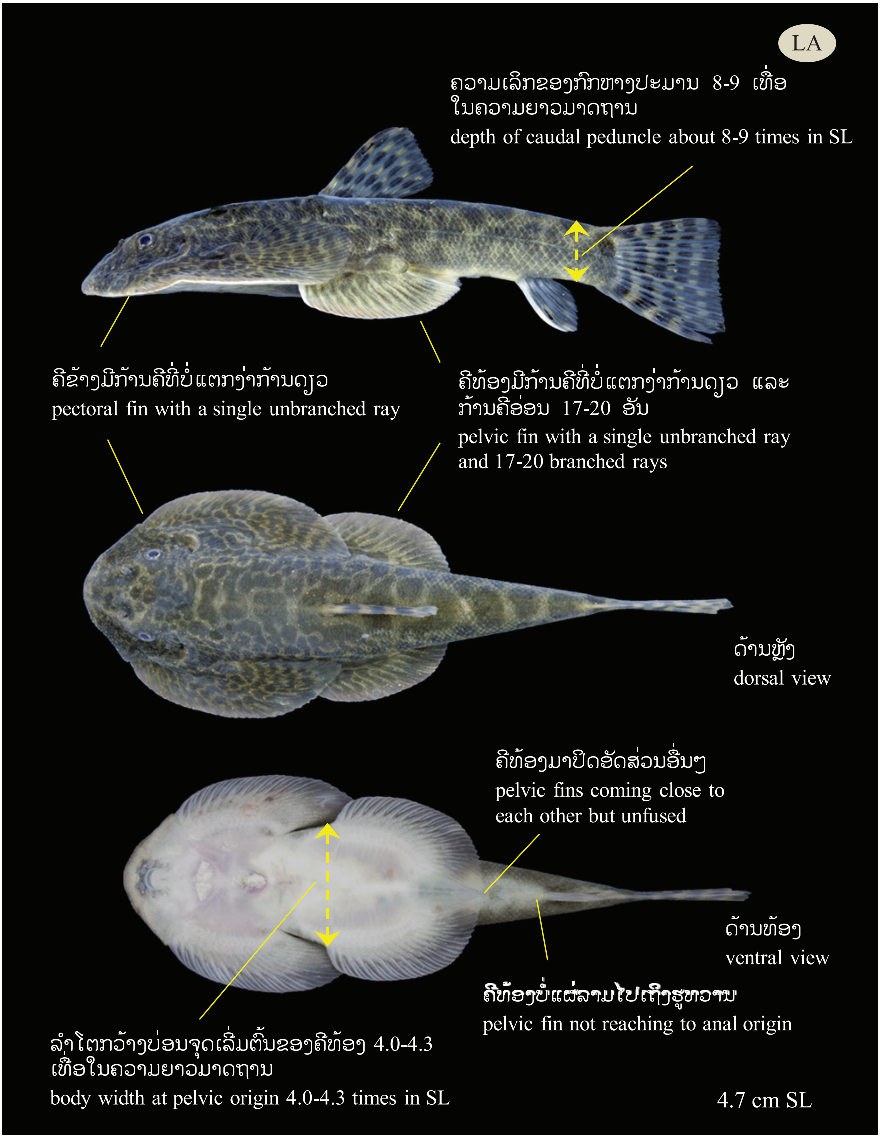
ຕະກູນປາປີກ, ປາດູດຫີນ GASTROMYZONTIDAE
CYPRINIFORMES

ປາປີກນ້ອຍ *Annamia normani* (Hora, 1931)



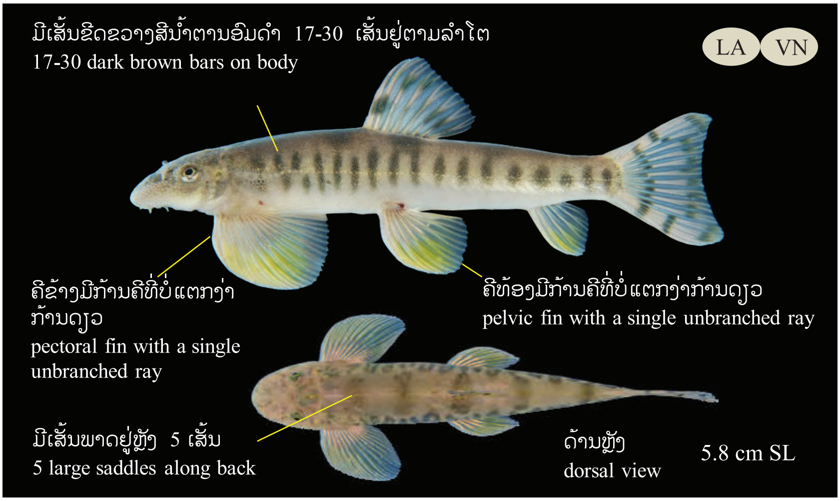
ຕະກຸນປາປີກ, ປາດູດຫີນ GASTROMYZONTIDAE
CYPRINIFORMES

ປາດູດຫີນ *Sewellia elongata* Roberts, 1998



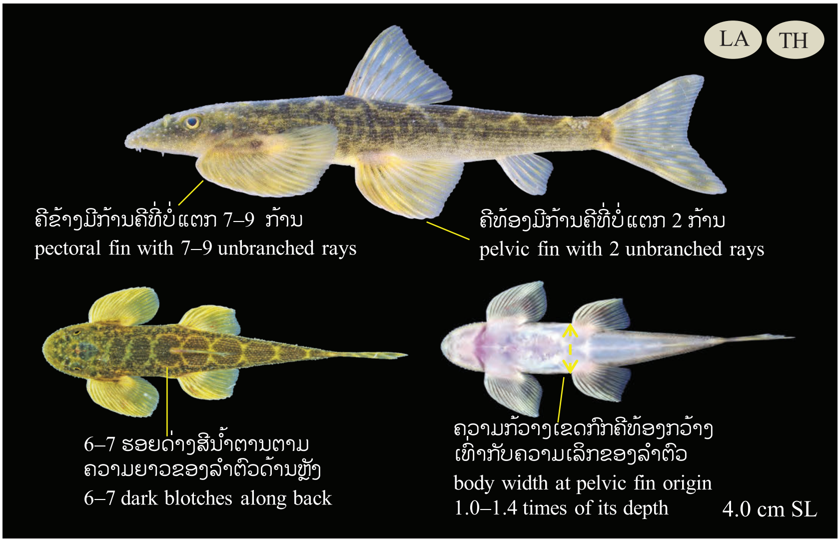
ຕະກຸນປາປີກ, ປາດູດຫີນ GASTROMYZONTIDAE CYPRINIFORMES

ປາປີກ *Vanmanenia serrilineata* Kottelat, 2000



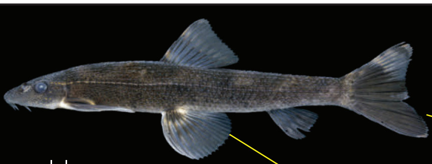
ຕະກຸນປາປີກນ້ອຍ BALITORIDAE CYPRINIFORMES

ປາປີກນ້ອຍ *Balitora lancangjiangensis* (Zheng, 1980)



ປາປີກ *Balitoropsis zollingeri* (Bleeker, 1853)

KH LA



ຄີຫາງປ່ຽງລຸ່ມເປັນສີດຳ, ປ່ຽງເທິງມີລັກສະນະໃສ
lower lobe of caudal fin black, upper lobe hyaline

ຄີຂ້າງມີກ້ານຄີທີ່ບໍ່ແຕກງ່າ 4–5 ກ້ານ
pectoral fin with 4–5 unbranched rays

ຄີທ້ອງມີກ້ານຄີທີ່ບໍ່ແຕກງ່າ 2 ກ້ານ
pelvic fin with 2 unbranched rays

ຕາມລຳໂຕມີເສັ້ນສີດຳພາດຢຽດຍາວຢູ່ຫຼັງ, ບາງເທື່ອເປັນສີດຳເລີຍ
body with dark saddles along back, sometimes entirely black

photo: IFReDI–P 2933

6.5 cm SL

ປາປີກໃຫຍ່, ປາດູດຫີນ *Hemimyzon confluens* Kottelat, 2000

ນອນໃນບັນຊີແດງຂອງ IUCN
IUCN Red List: VU

LA

ຄີຂ້າງມີກ້ານຄີທີ່ບໍ່ແຕກງ່າ 12–13 ກ້ານ ແລະ ກ້ານຄີອ່ອນ 10–12 ກ້ານ
pectoral fin with 12–13 unbranched rays and 10–12 branched rays

ຄີທ້ອງມີກ້ານຄີທີ່ບໍ່ແຕກງ່າ 5 ກ້ານແລະ ກ້ານຄີອ່ອນ 13–14 ກ້ານ
pelvic fin with 5 unbranched rays and 13–14 branched rays

ຄີທ້ອງກວມເອົາເກືອບໝົດຂອງຄວາມຍາວຂອງລຳໂຕ
pelvic fins posteriorly fused on most of their length

5.7 cm SL

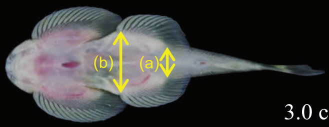
ປາປີກໃຫຍ່, ປາດູດຫີນ *Hemimyzon ecdyonuroides* Freyhof & Herder, 2002

ຄີຂ້າງມີກ້ານຄີທີ່ບໍ່ແຕກງ່າ 13–14 ກ້ານ ແລະ ກ້ານຄີອ່ອນ 10–12 ກ້ານ
pectoral fin with 13–14 unbranched rays and 10–12 branched rays

LA VN

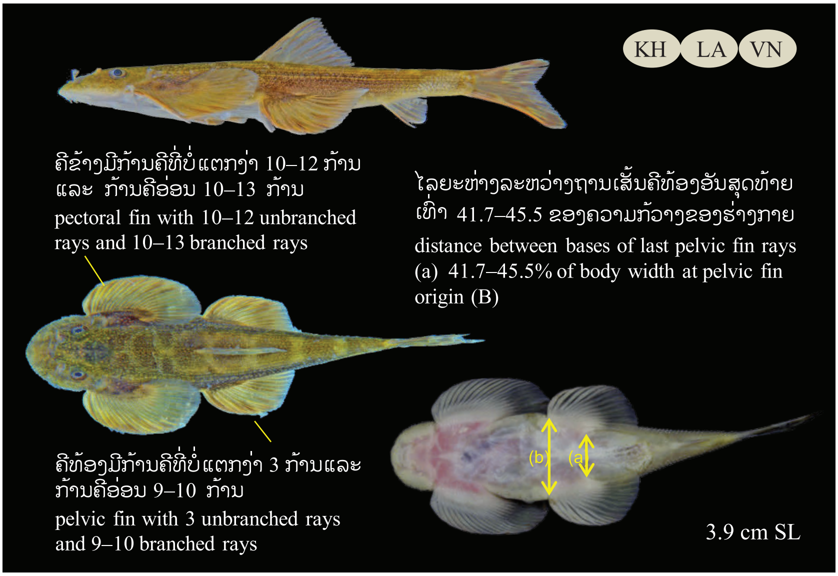
ຄວາມກ້ວາງລະຫວ່າງເສັ້ນສຸດທ້າຍຄີທ້ອງ ປະມານ 25.0–37.0% ຂອງຄວາມກ້ວາງຮ່າງກາຍເຂດຄີທ້ອງ
distance between bases of last rays of pelvic fin (a) 25.0–37.0% of body width at pelvic fin origin (b)

ຄີທ້ອງມີກ້ານຄີທີ່ບໍ່ແຕກງ່າ 6–7 ກ້ານ ແລະ ກ້ານຄີອ່ອນ 10–13 ກ້ານ
pelvic fin with 6–7 unbranched rays and 10–13 branched rays

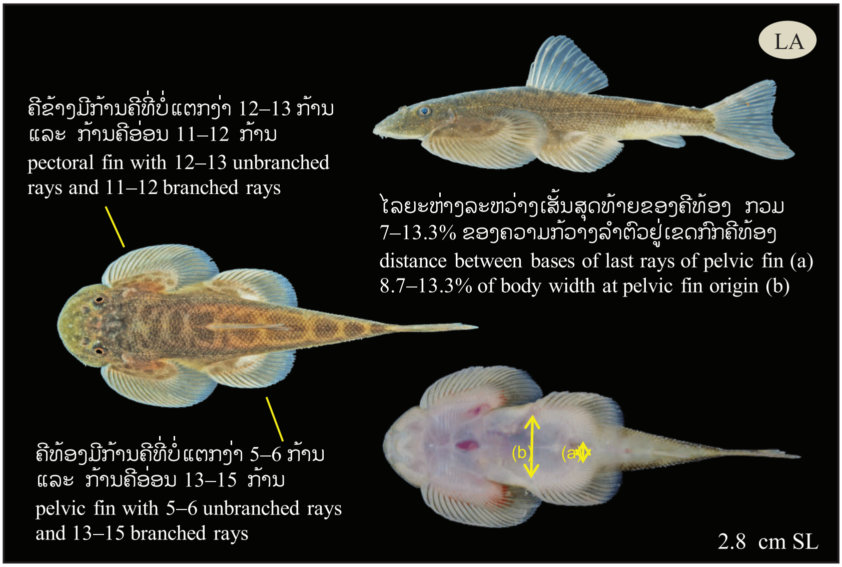


3.0 cm SL

ປາປີກໃຫຍ່ ,ປາດູດຫີນ *Hemimyzon papilio* Kottelat, 1998

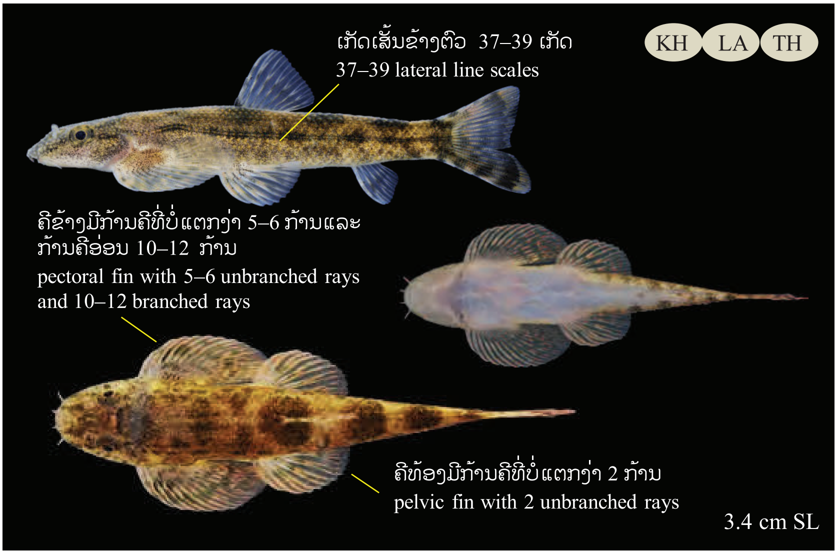


ປາປີກໃຫຍ່, ປາດູດຫີນ *Hemimyzon pengi* (Huang, 1982)



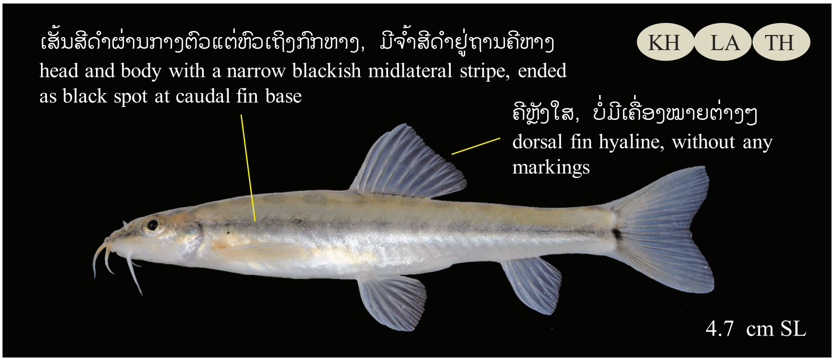
ຕະກຸນປາປີກນ້ອຍ BALITORIDAE CYPRINIFORMES

ປາປີກ *Homalopteroides smithi* (Hora, 1932)

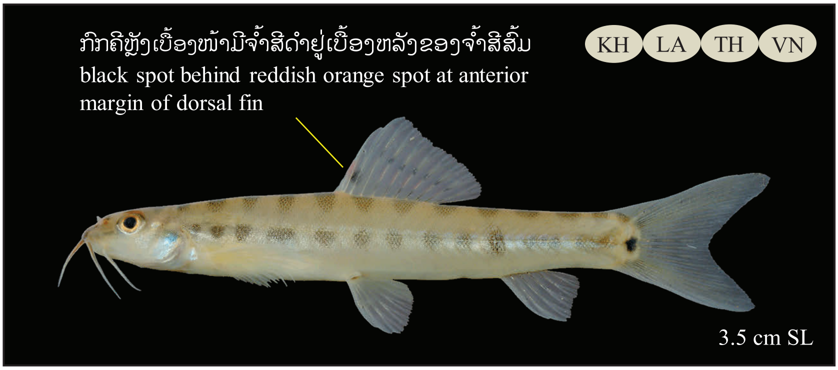


ປາປີກ *Pseudohomaloptera leonardi* (Hora, 1941)

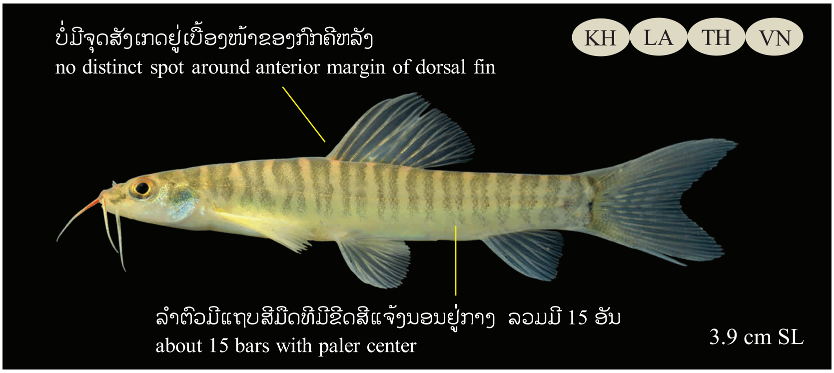
ປາພັ້ນ *Nemacheilus longistriatus* Kottelat, 1990



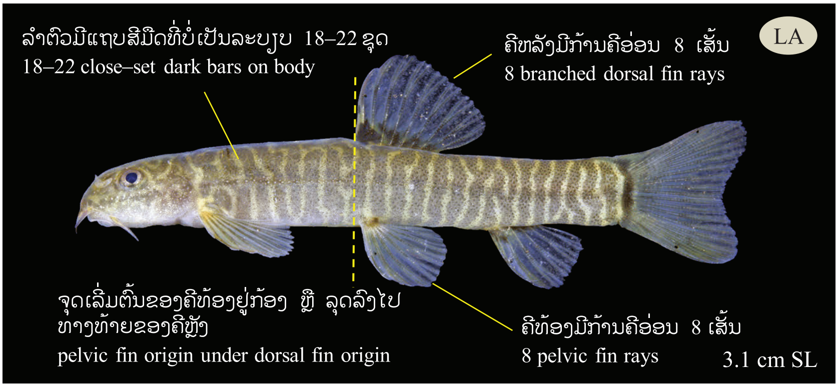
ປາພັ້ນ *Nemacheilus masyae* Smith, 1933



ປາພັ້ນ *Nemacheilus platiceps* Kottelat, 1990

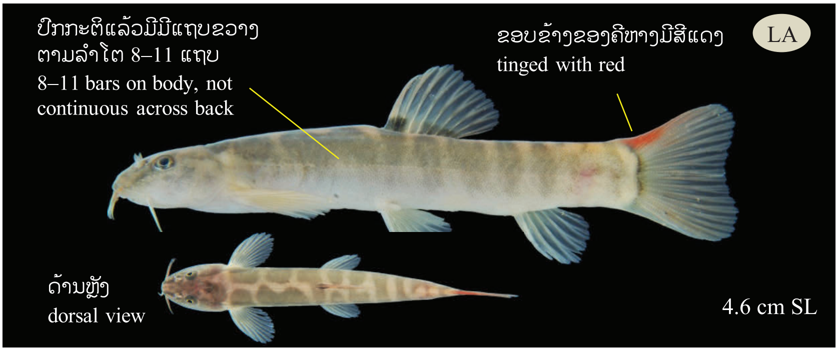


ປາພັ້ນ *Physoschistura* sp.



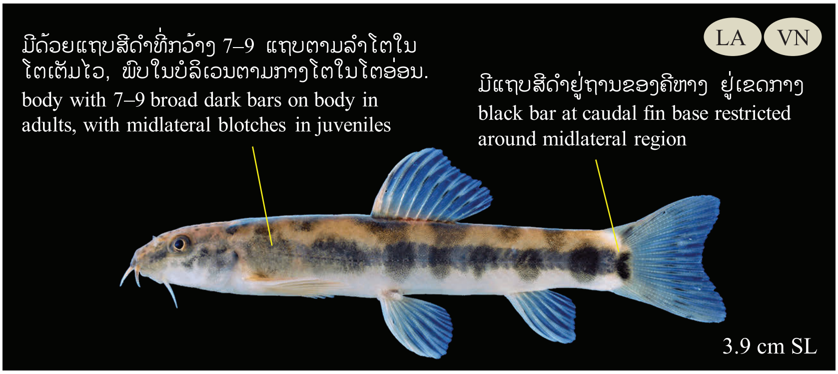
ປາພັ້ນ *Pteronemacheilus meridionalis* (Zhu, 1982)

ປາພັ້ນ *Schistura aramis* Kottelat, 2000

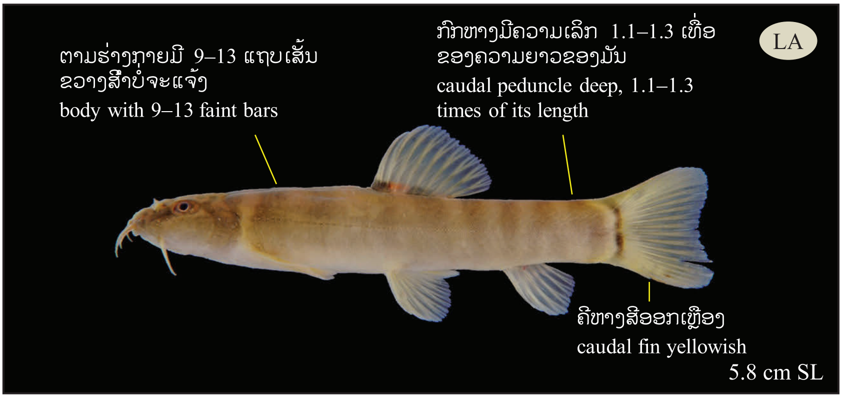


ຕະກຸນປາປີກນ້ອຍ BALITORIDAE CYPRINIFORMES

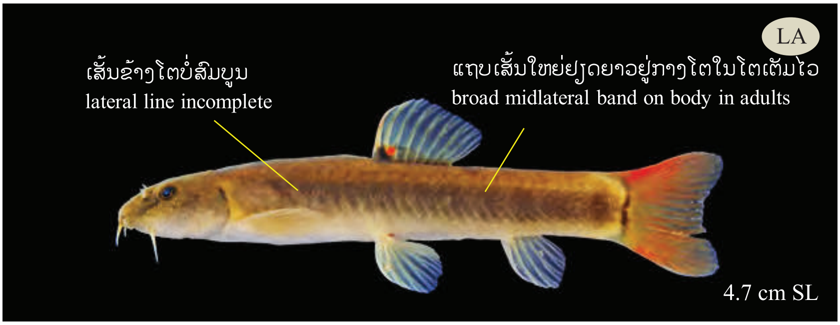
ປາພັ້ນ *Schistura athos* Kottekat, 2000



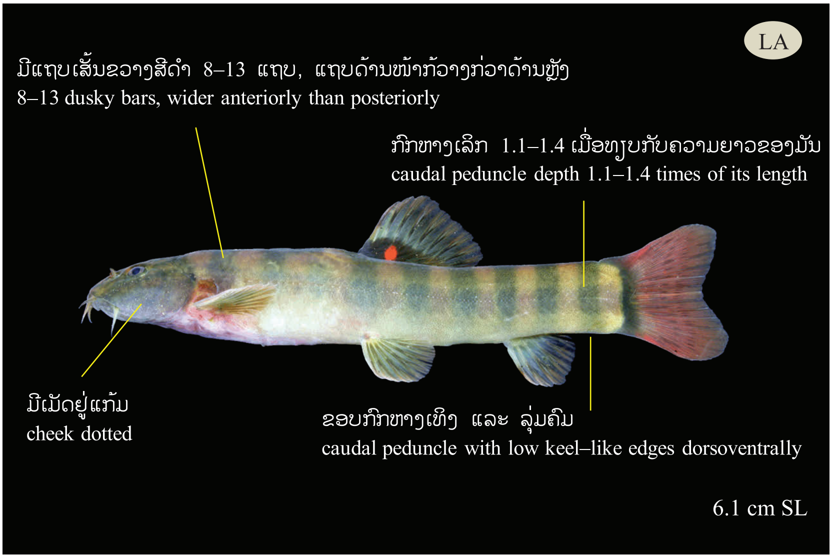
ປາພັ້ນ *Schistura bucculenta* (Smith, 1945)



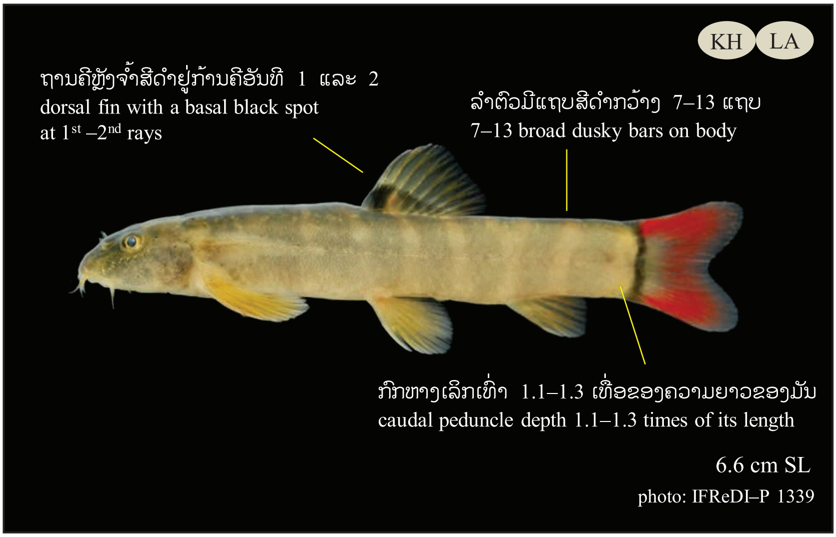
ປາພັ້ນ *Schistura caudofurca* (Mai, 1978)



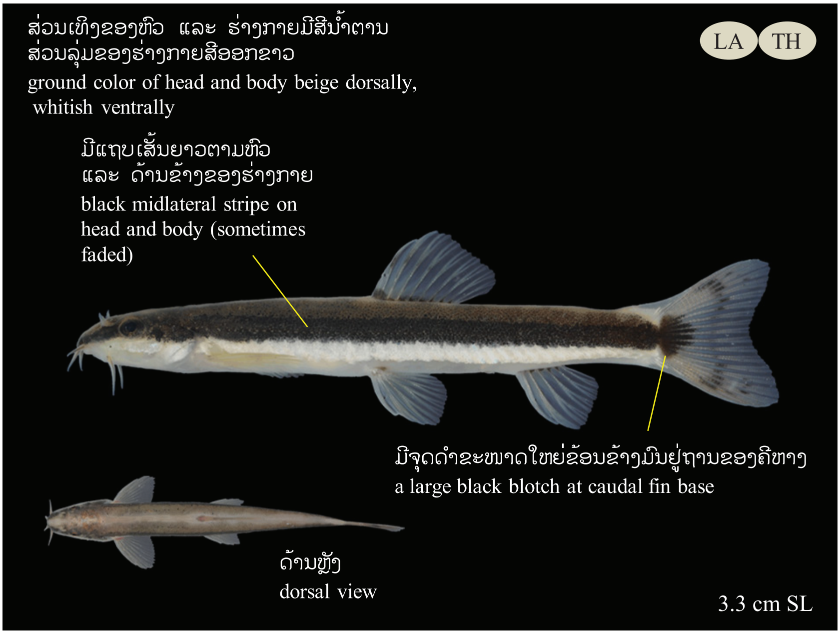
ປາພົ້ນ *Schistura clatrata* Kottelat, 2000



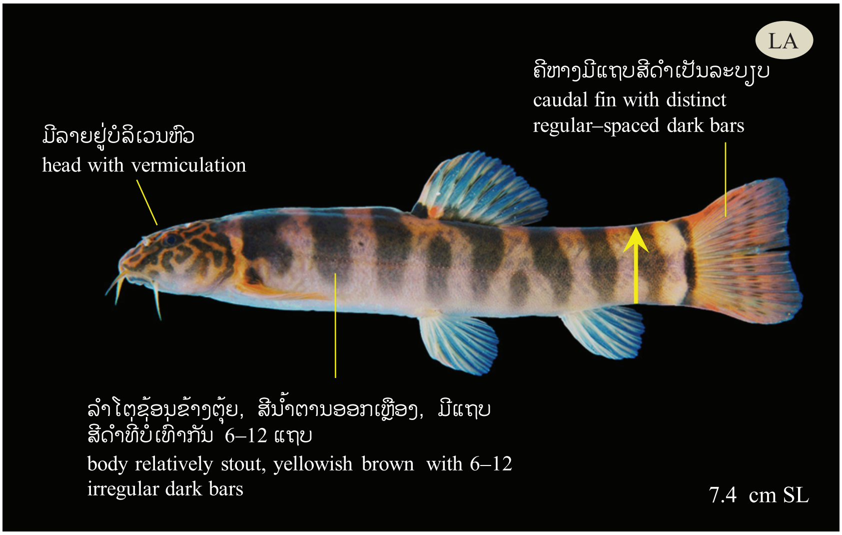
ປາພົ້ນ *Schistura coruscans* Kottelat, 2000



ປາພັ້ນ *Schistura dorsizona* Kottelat, 1998



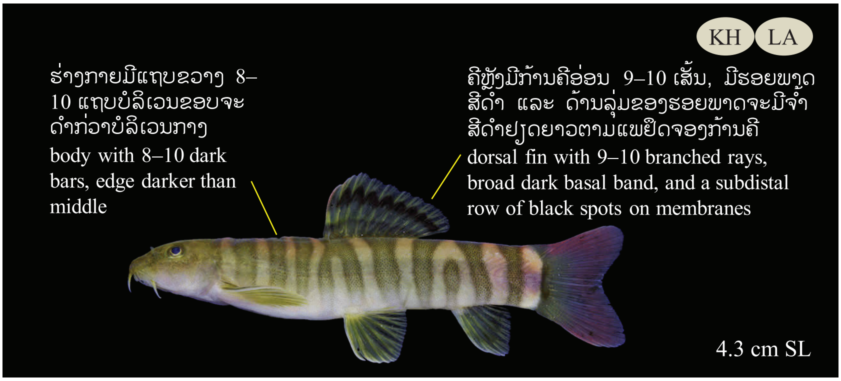
ປາພັ້ນ *Schistura ephelis* Kottelat, 2000



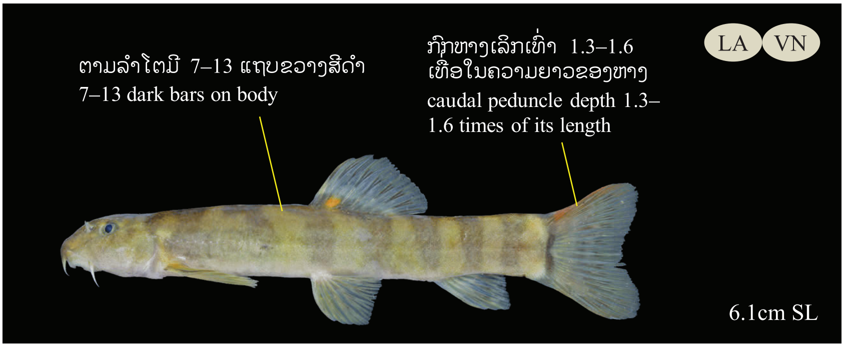
ຕະກຸນປາປີກນ້ອຍ BALITORIDAE CYPRINIFORMES

ປາພົ້ນ *Schistura imitator* Kottelat, 2000

ປາພົ້ນ *Schistura khamtanhi* Kottelat, 2000



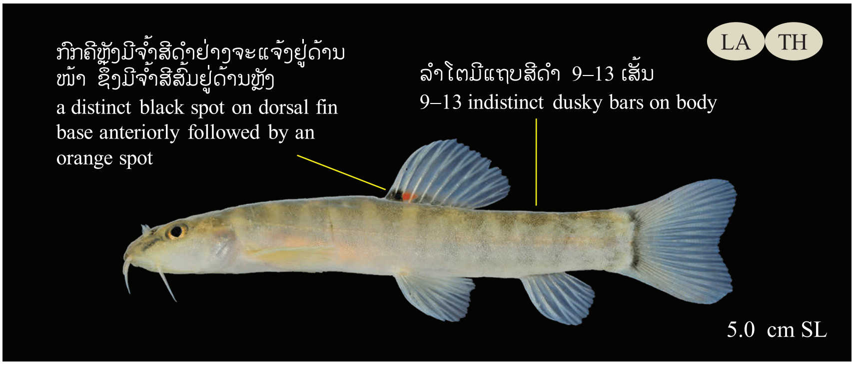
ປາພົ້ນ *Schistura kongphengi* Kottelat, 1998



ປາພັ້ນ *Schistura latidens* Kottelat, 2000

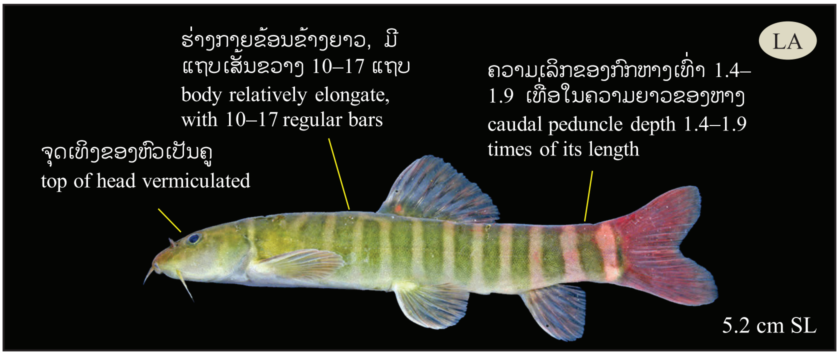
ປາພັ້ນ *Schistura melarancia* Kottelat, 2000

ປາພັ້ນ *Schistura nicholsi* (Smith, 1933)

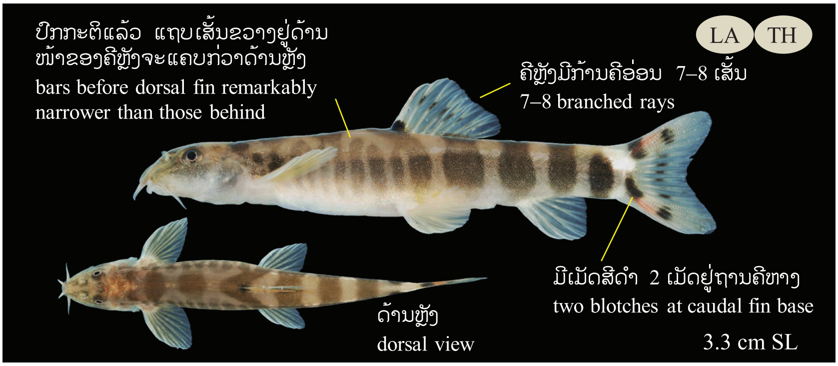


ຕະກຸນປາປີກນ້ອຍ BALITORIDAE CYPRINIFORMES

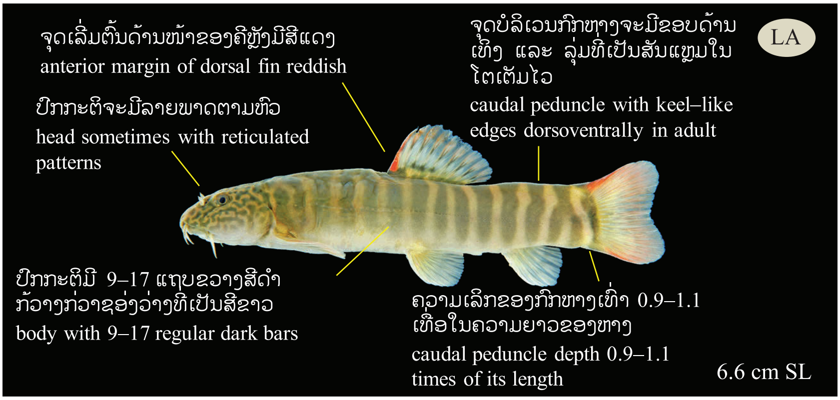
ປາພັ້ນ *Schistura obeini* Kottelat, 1998



ປາພັ້ນ *Schistura poculi* (Smith, 1945)



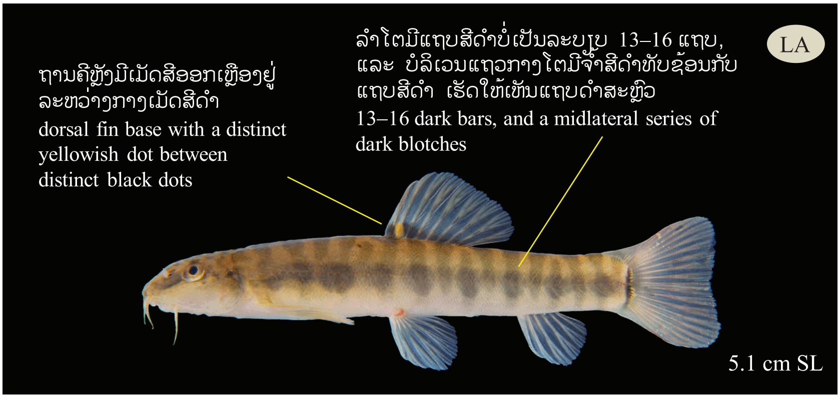
ປາພັ້ນ *Schistura porthos* Kottelat, 2000



ປາພັ້ນ *Schistura quaesita* Kottelat, 2000

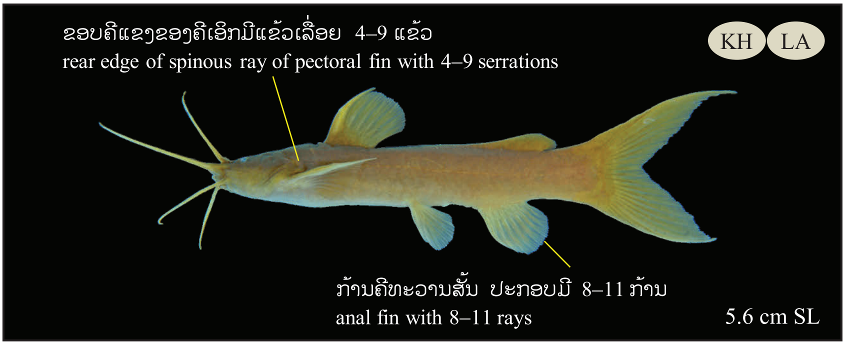
ປາພັ້ນ *Schistura sertata* Kottelat, 2000

ປາພັ້ນ *Schistura sigillata* Kottelat, 2000



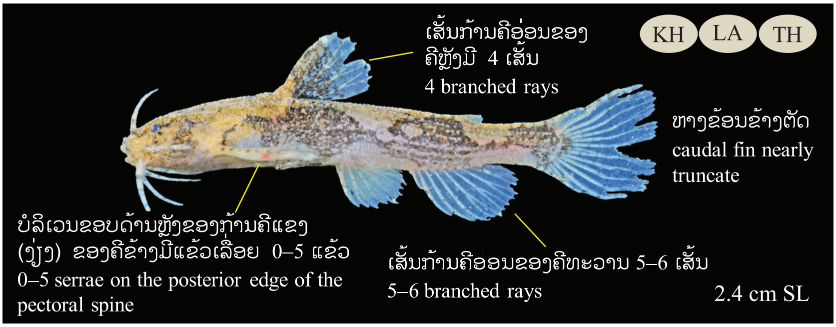
ຕະກຸນປາດຸກເດື່ອ AMBLYCIPITIDAE SILURIFORMES

ປາດຸກເດື່ອ *Amblyceps serratum* Ng & Kottelat, 2000

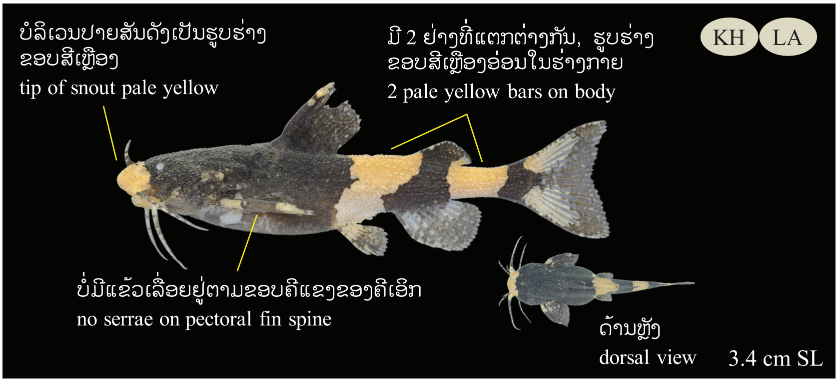


ຕະກຸນປາຂີ້ເຮ່ຍ AKYSIDAE SILURIFORMES

ປາຂີ້ເຮ່ຍ *Akysis varius* Ng & Kottelat, 1998



ປາຂີ້ເຮ່ຍກ່ານເຫຼືອງ *Pseudobagarius inermis* (Ng & Kottelat, 2000)



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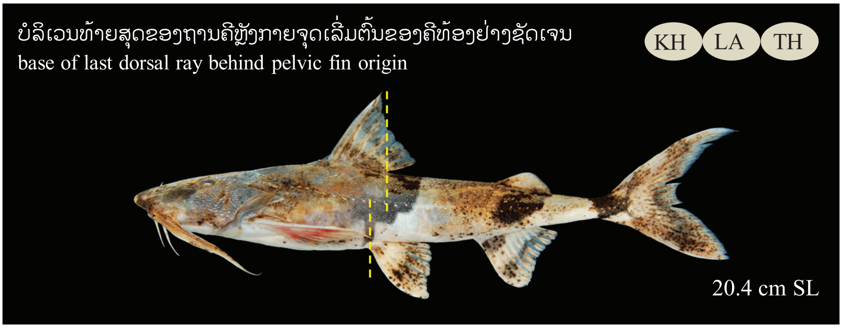
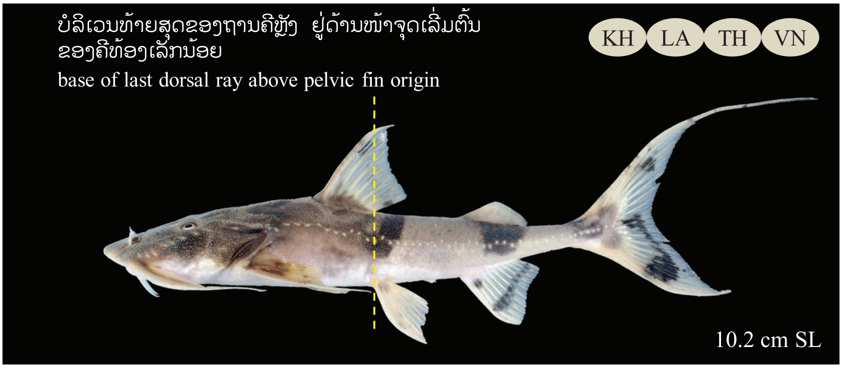
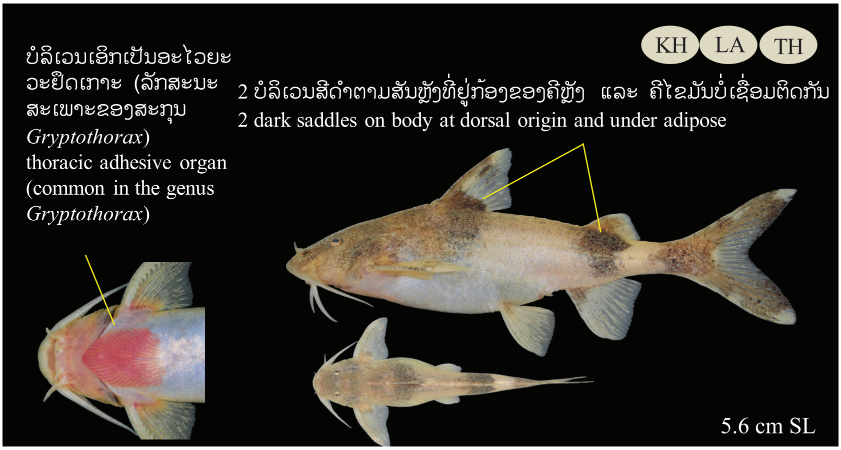
ປາແຂ້ *Bagarius bagarius* (Hamilton, 1822)



ປາແຂ້ *Bagarius yarrelli* (Sykes, 1839)

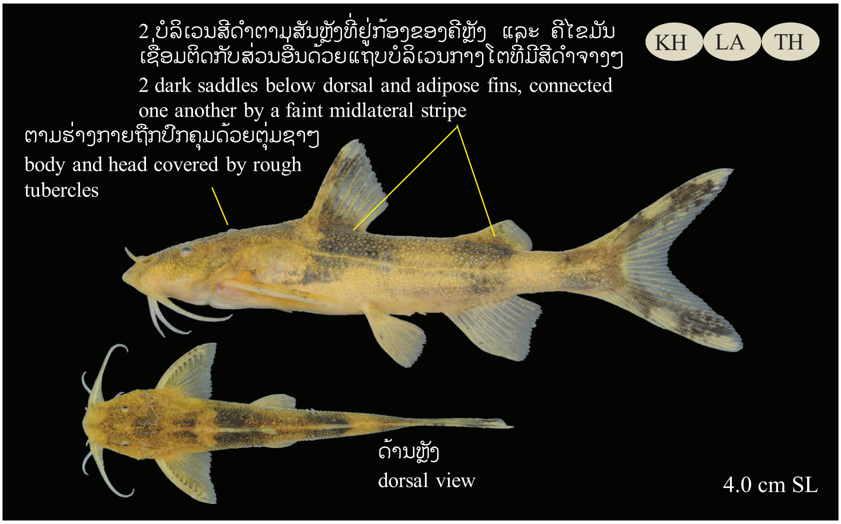


ປາໂກນ *Glyptothorax fuscus* Fowler, 1934

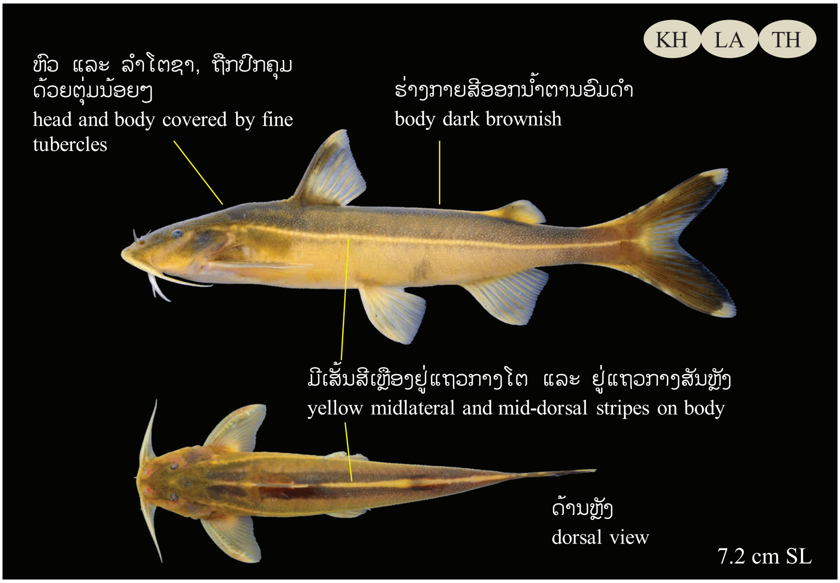


ຕະກຸນປາແຂ້ SISORIDAE SILURIFORMES

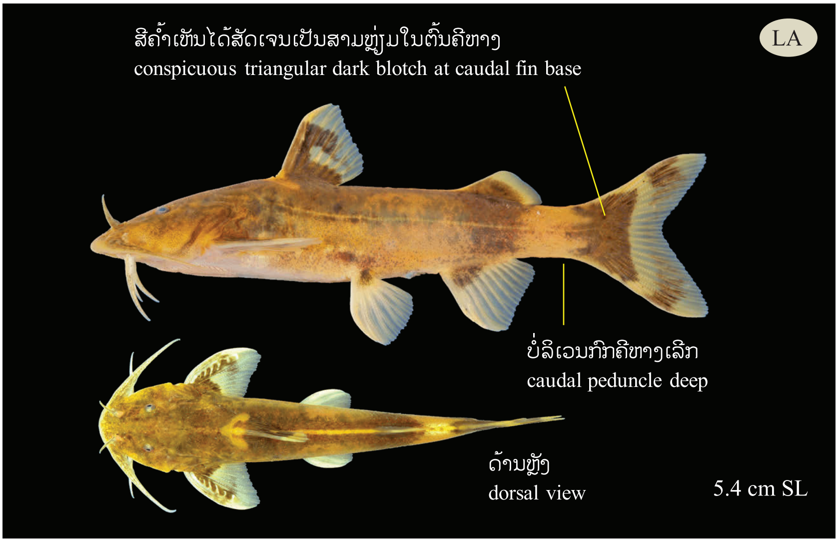
ປາໂກນ *Glyptothorax lampris* Fowler,1934



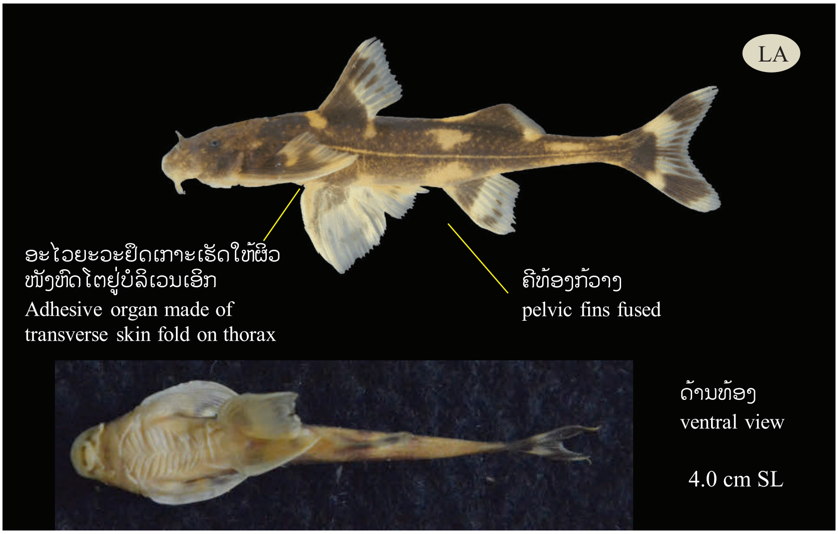
ປາໂກນ *Glyptothorax laosensis* Fowler,1934



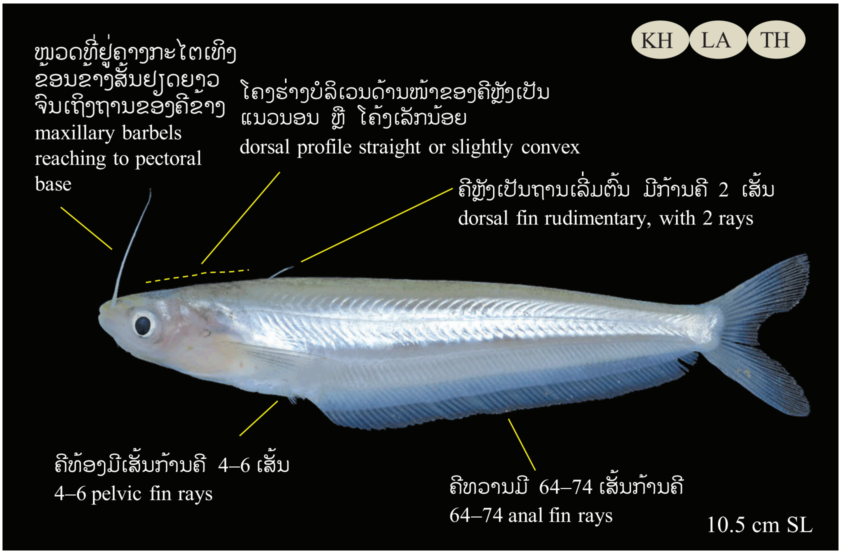
ປາໂກນເຫຼືອງ *Glyptothorax macromaculatus* Li, 1984



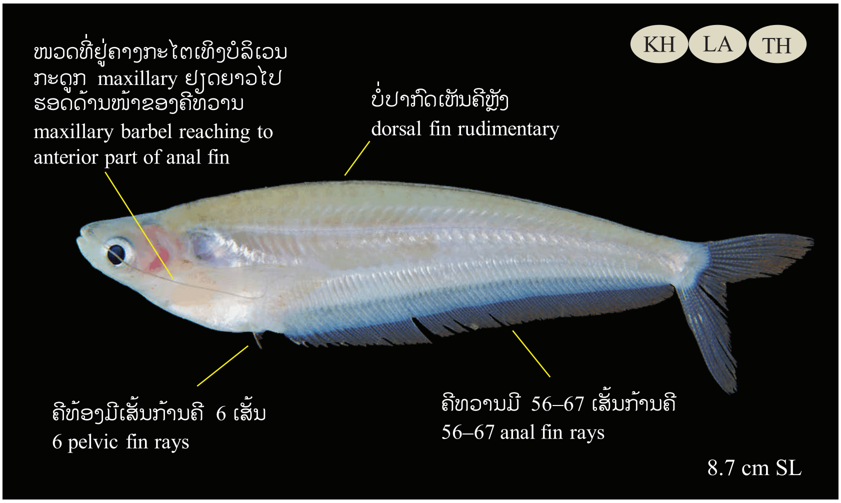
ປາໂກນ *Pseudecheneis sympelvica* Roberts, 1998



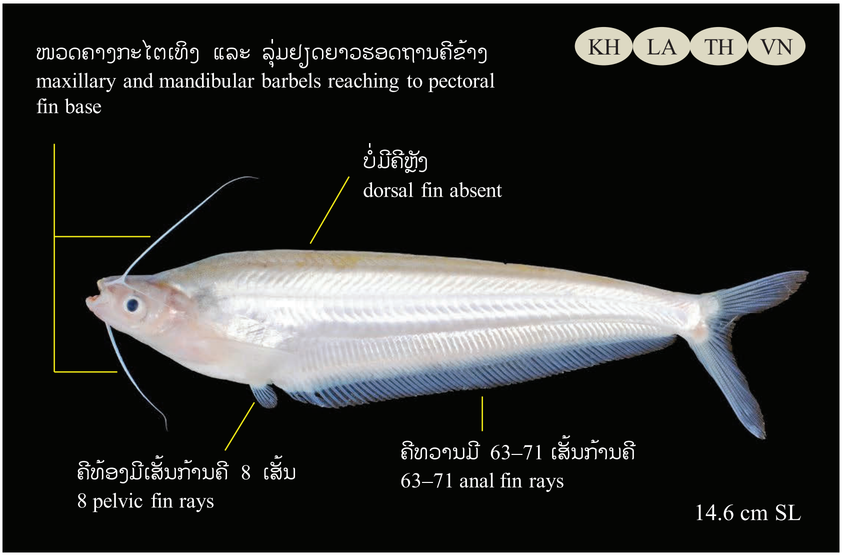
ປາປີກໄກ່ *Kryptopterus geminus* Ng, 2003



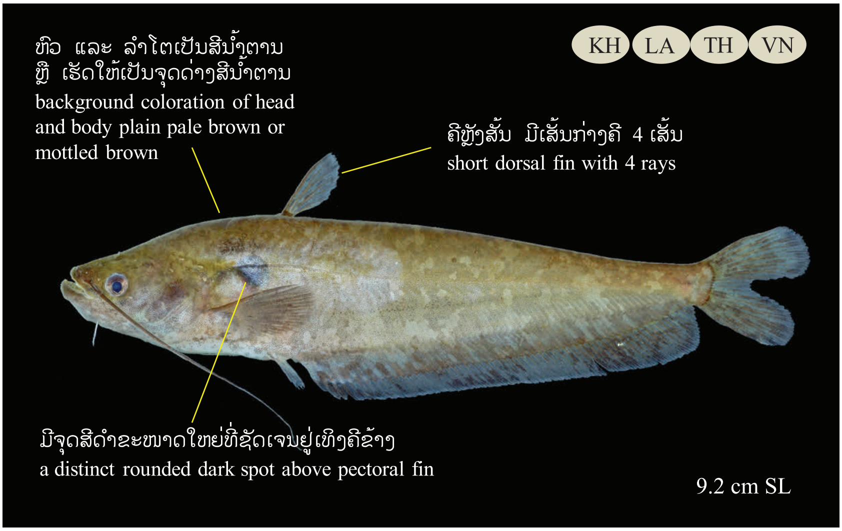
ປາປີກໄກ່ *Kryptopterus bicirrhis* (Valenciennes, 1840)



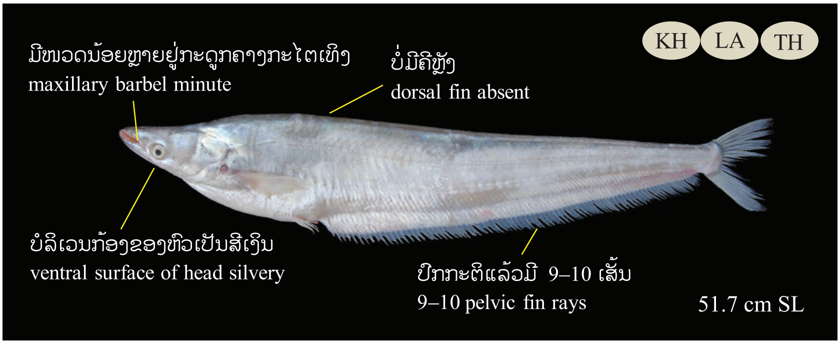
ປານາງ *Micronema cheveyi* (Durand, 1940)



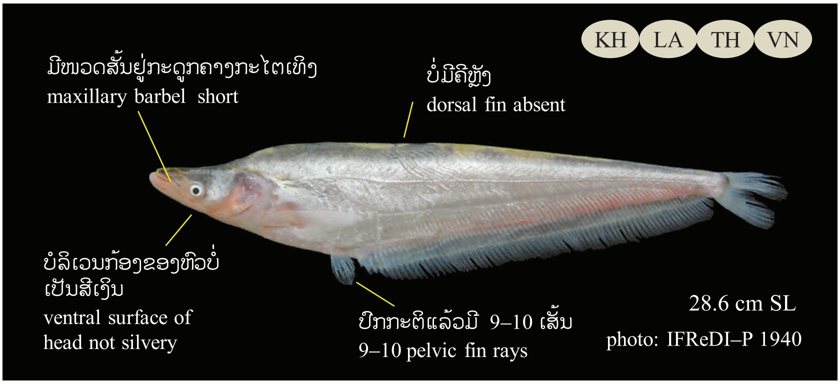
ປາເຊືອມ *Ompok siluroides* Lacepède, 1803



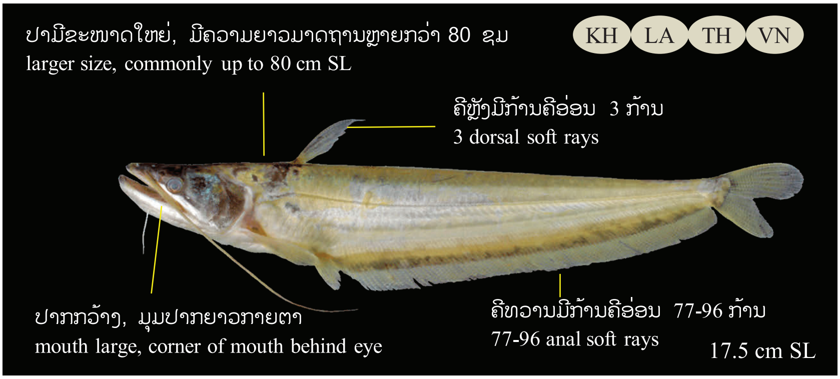
ປານາງ *Phalacronotus* sp.1



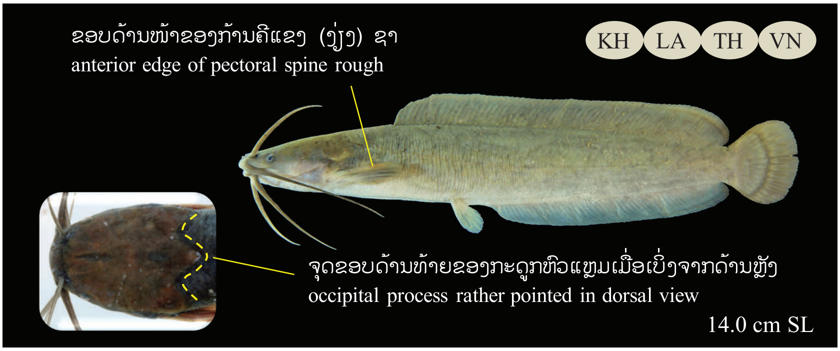
ປານາງ *Phalacronotus* sp.2



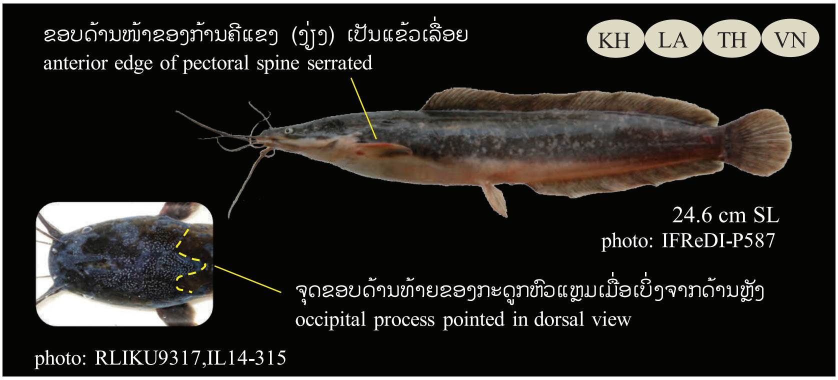
ປາຄ້າວ *Wallago attu* (Bloch & Schneider, 1801)



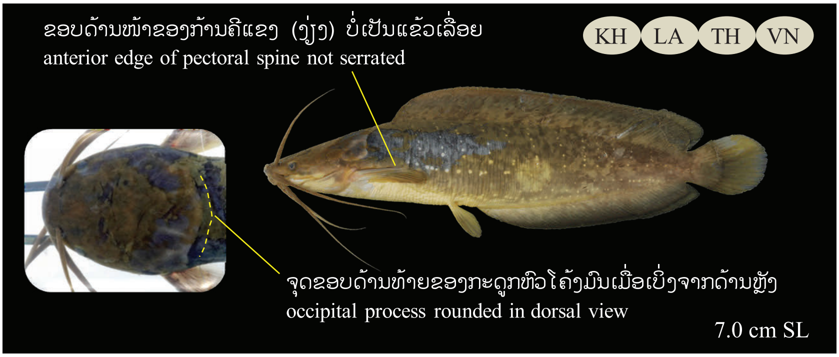
ປາດຸກເອັນ *Clarias* cf. *batrachus*



ປາດຸກພັນ *Clarias gariepinus* (Burchell, 1822)

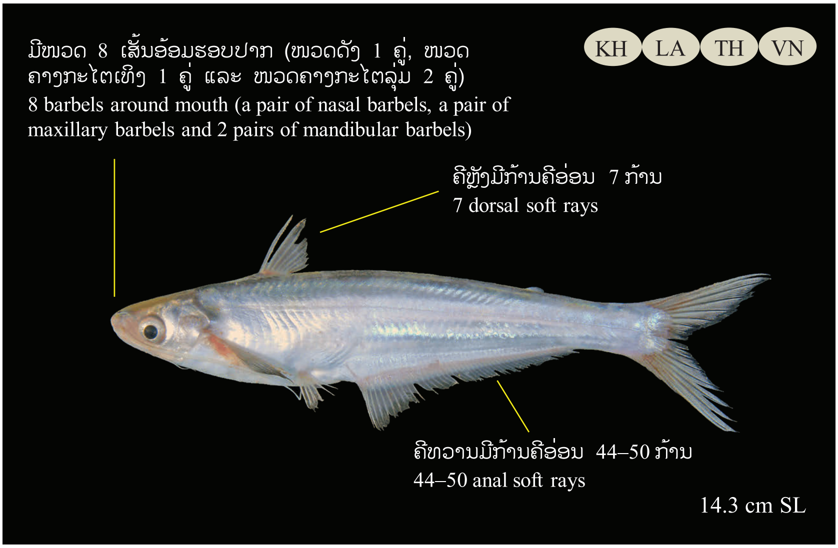


ປາດຸກອຸຍ *Clarias macrocephalus* Günther, 1864

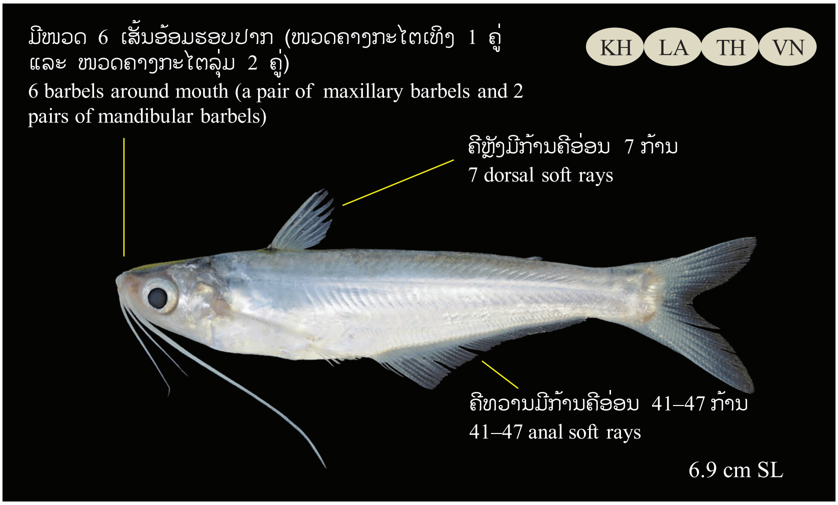


ຕະກຸນປາຍອນ AILIIDAE SILURIFORMES

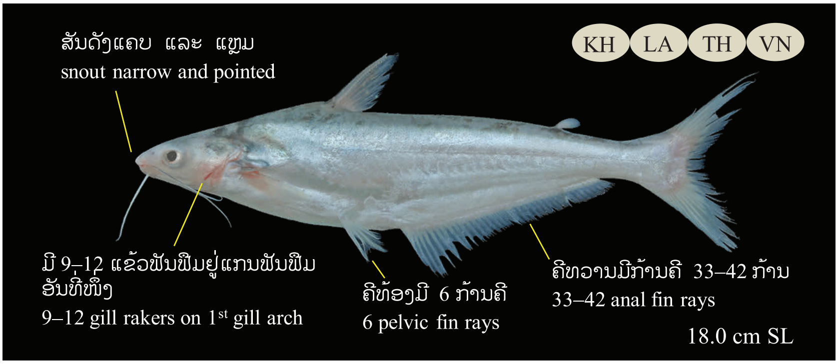
ປາຍອນ *Clupisoma sinense* (Huang, 1981)



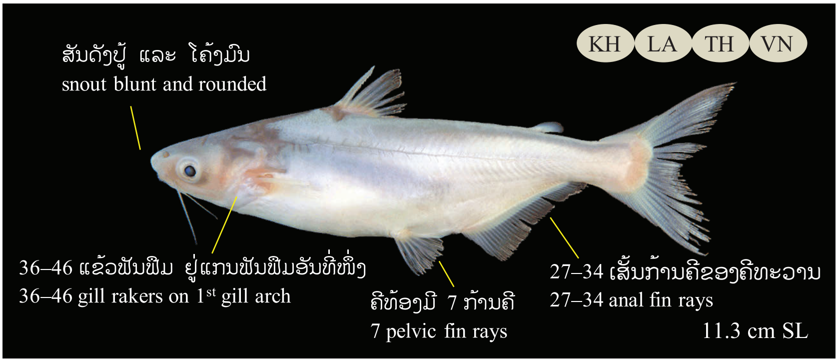
ປາຍອນຕາໂລ້ *Laides longibarbis* (Fowler, 1934)



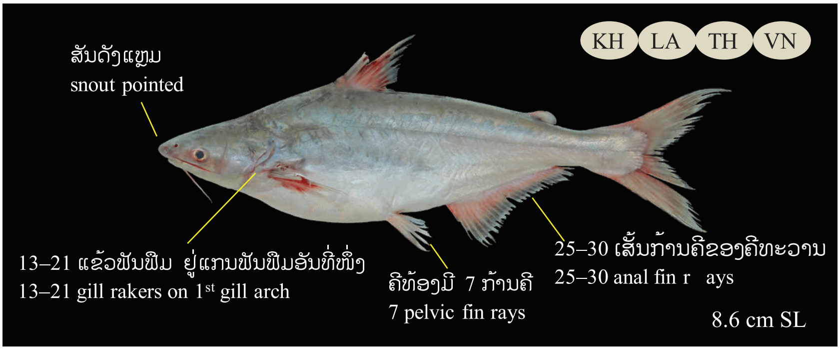
ປາໜ້າໝູ *Helicophagus leptorhynchus* Ng & Kottelat, 2000



ປາເຜາະ *Pangasius bocourti* Sauvage, 1880

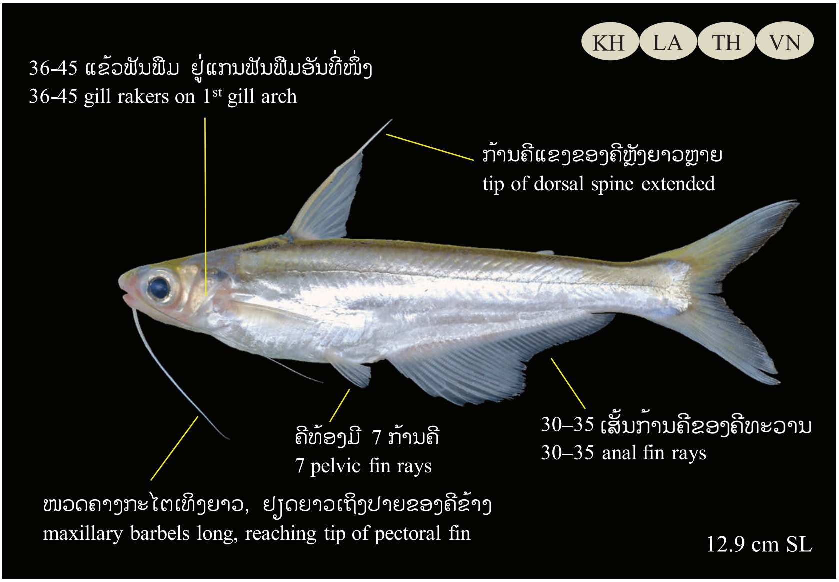


ປາອ່ອດ *Pangasius conchophilus* Roberts & Vidthayanon, 1991

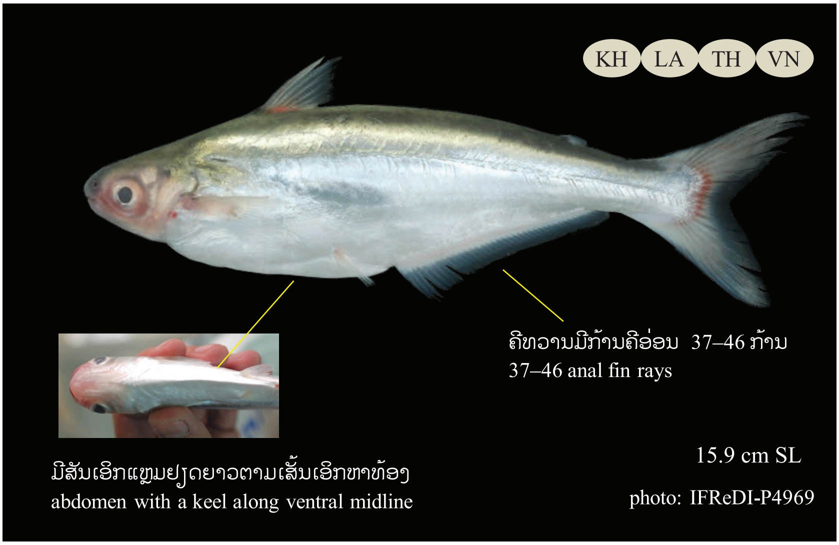


ຕະກູນປາສະຫວາຍ PANGASIIDAE SILURIFORMES

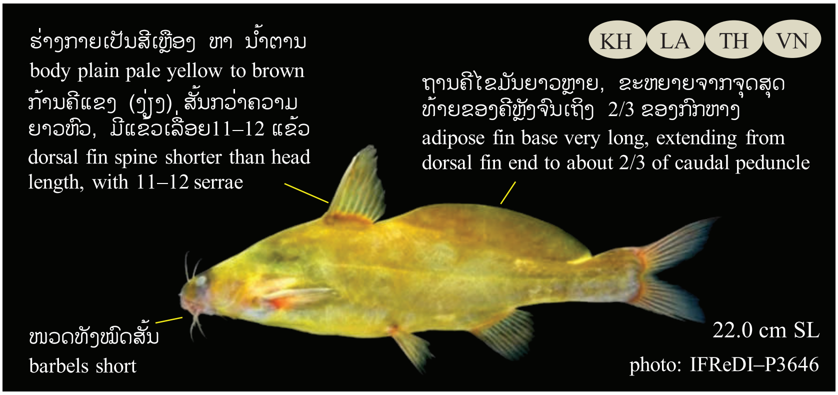
ປາຊວາຍ *Pangasius macronema* Bleeker, 1850



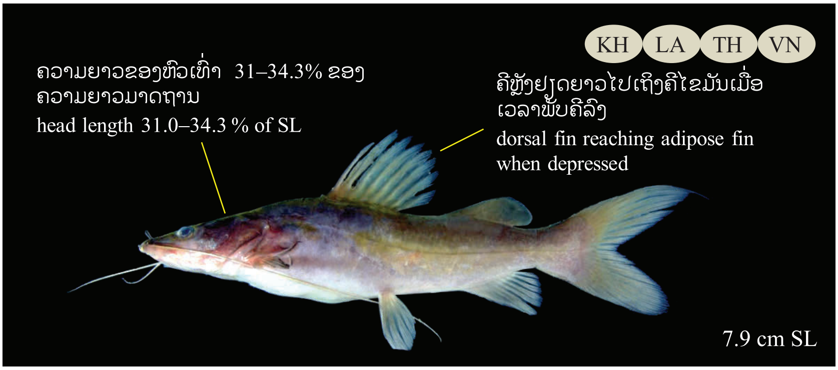
ປາຍອນທອງ *Pseudolais pleurotaenia* (Sauvage, 1878)



ປາຂະແຍງໂຄ *Bagrichthys obscurus* Ng, 1999



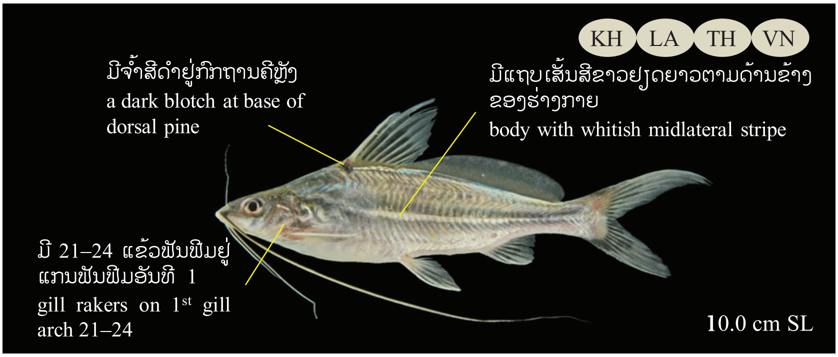
ປາກົດ *Hemibagrus filamentus* (Fang & Chaux, 1949)



ປາກົດ *Hemibagrus spilopterus* Ng & Rainboth, 1999

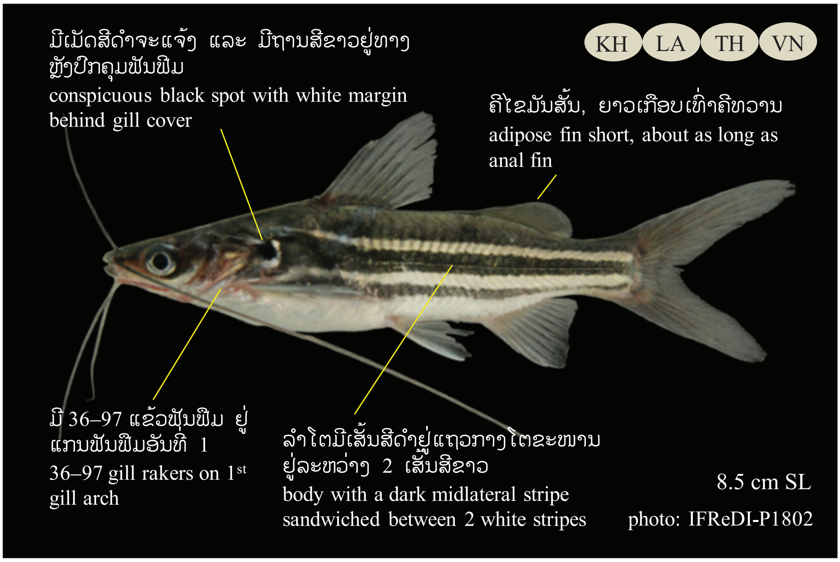
ປາເຄິງແດງ *Hemibagrus wyckioides* (Fang & Chaux, 1949)

ປາຂະແຍງຂ້າງລາຍ *Mystus albolineatus* Roberts, 1994

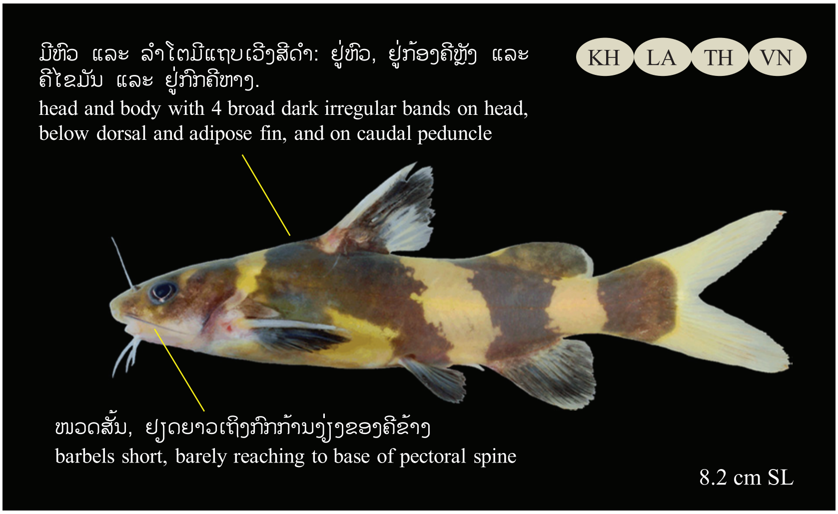


ປາຂະແຍງຂາວ *Mystus atrifasciatus* Fowler, 1937

ປາຂະແຍງ *Mystus mysticetus* Roberts, 1992



ປາຢາງບອນ *Pseudomystus siamensis* (Regan, 1913)

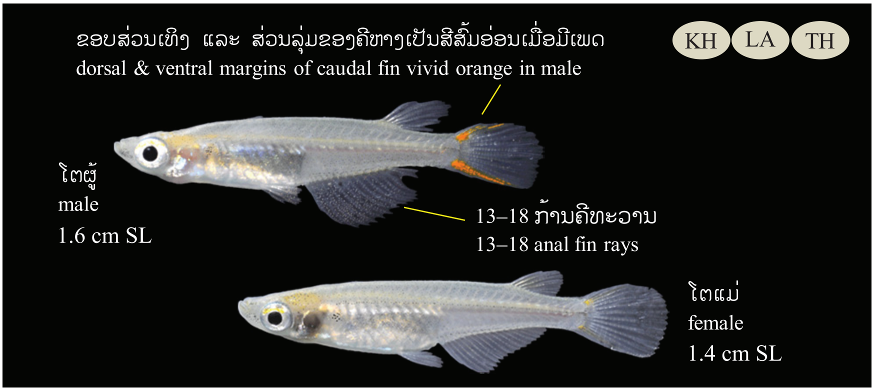


ຕະກຸນປາສະແລ້ງ SALANGIDAE OSMERIFORMES

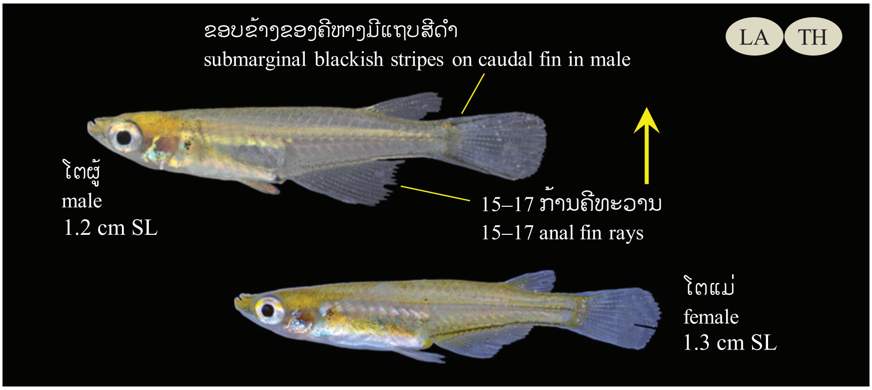
ປາສະແລ້ງ *Neosalanx tangkahkeii* (Wu, 1931)

ຕະກຸນປາເຂົ້າສານ ADRIANICHTHYIDAE BELONIFORMES

ປາເຂົ້າສານ *Oryzias mekongensis* Uwa & Magtoon, 1986

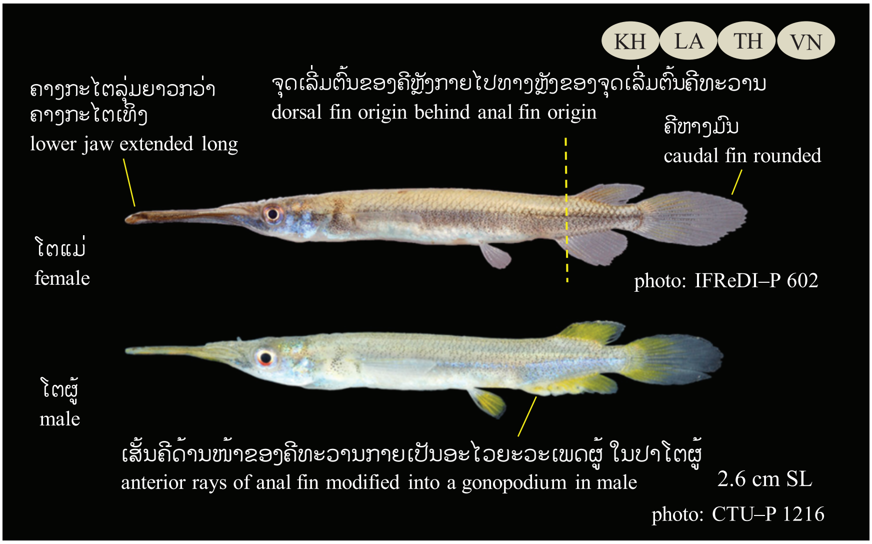


ປາເຂົ້າສານ *Oryzias songkhramensis* Magtoon, 2010



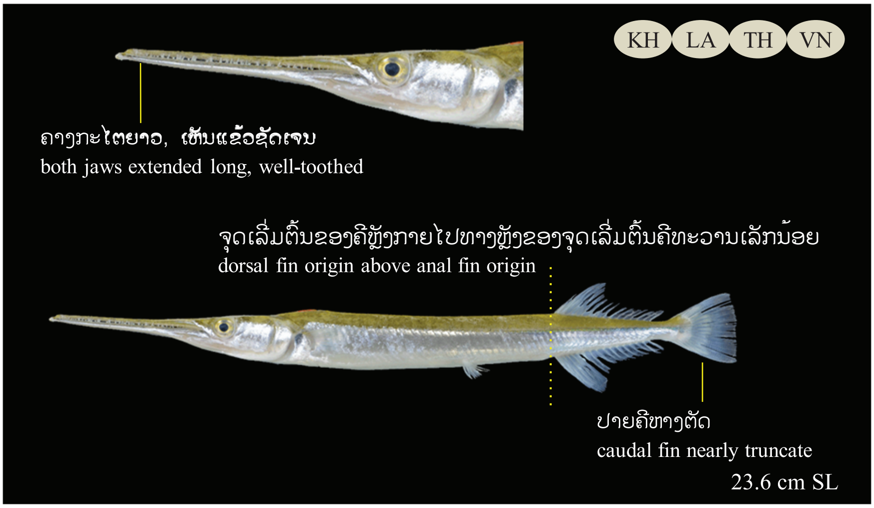
ຕະກຸນປາເຂັມ HEMIRAMPHIDAE BELONIFORMES

ປາເຂັມ ***Dermogenys siamensis*** **Fowler, 1934**



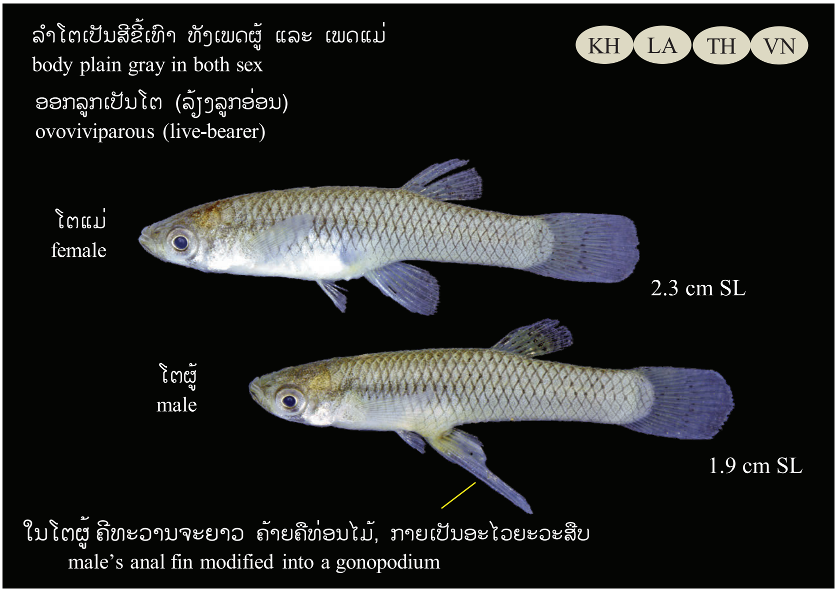
ຕະກຸນປາສົບໂທງ BELONIDAE BELONIFORMES

ປາສົບໂທງ ***Xenentodon*** **sp.**



ຕະກູນປາຂີ້ໂຜ້ POECILIIDAE BELONIFORMES

ປາຂີ້ໂຜ້ *Gambusia affinis* (Baird & Girard, 1853)



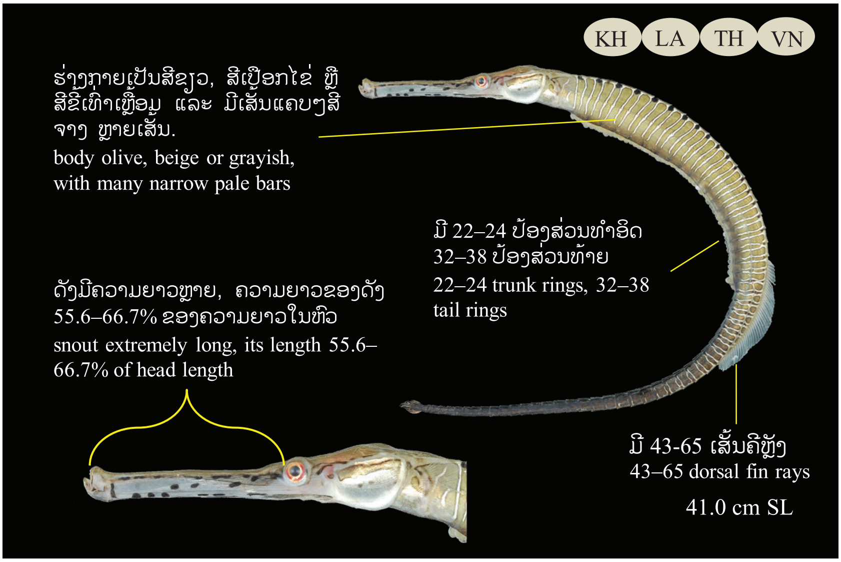
ຕະກູນປາເຫຼັກໃນ INDOSTOMIDAE GASTEROSTEIFORMES

ປາເຫຼັກໃນໜ້າສັ້ນ *Indostomus spinosus* Britz & Kottelat, 1999

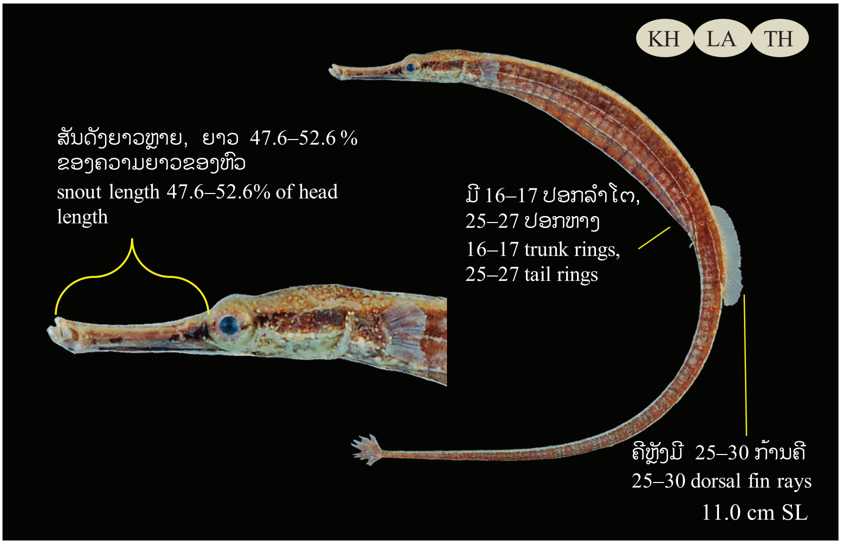
ຕະກຸນປາມ້ານ້ຳ SYNGNATHIDAE

GASTEROSTEIFORMES

ປາເຫຼັກໃນໜ້າຍາວ *Doryichthys boaja* (Bleeker, 1850)

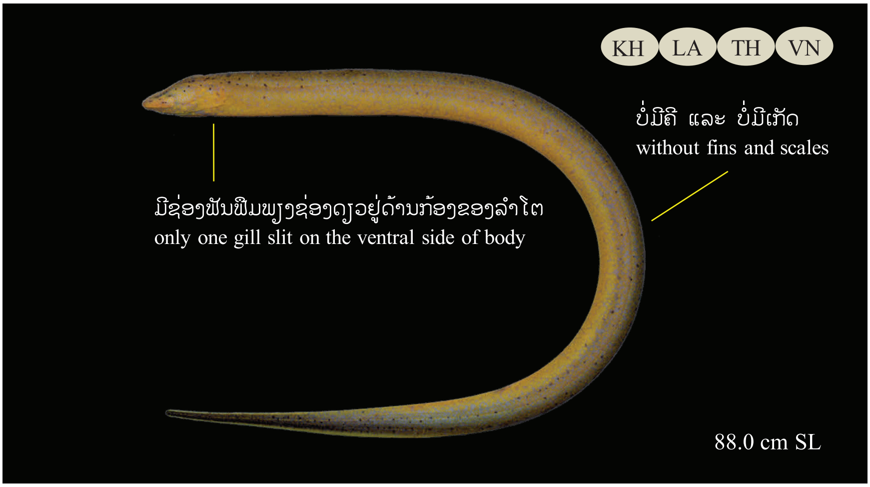


ປາເຫຼັກໃນໜ້າຍາວ *Doryichthys contiguus* Kottelat, 2000



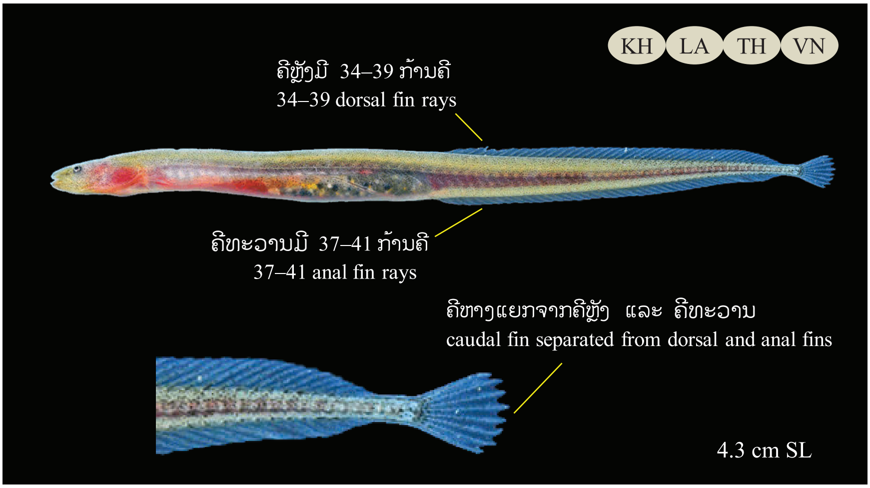
ຕະກຸນອ່ຽນ SYNBRANCHIDAE SYNBRANCHIFORMES

ອ່ຽນ *Monopterus albus* (Zuiew, 1793)



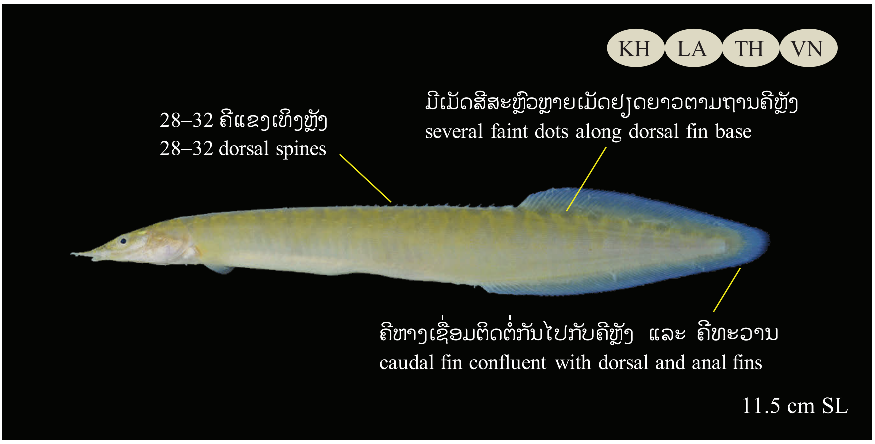
ຕະກຸນປາອີດ CHAUDHURIIDAE SYNBRANCHIFORMES

ປາອີດ *Chaudhuria caudata* Annandale, 1918

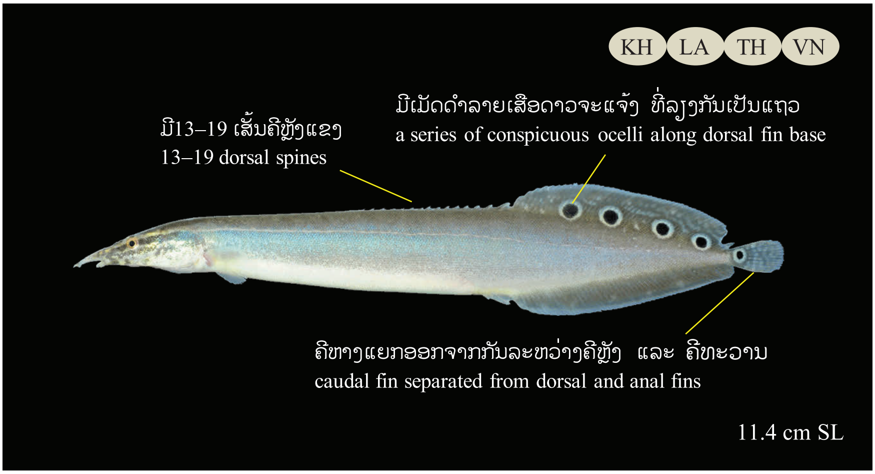


ຕະກຸນປາຫຼົດ MASTACEMBELIDAE
SYNBRANCHIFORMES

ປາຫຼົດ *Macrognathus semiocellatus* Roberts, 1986

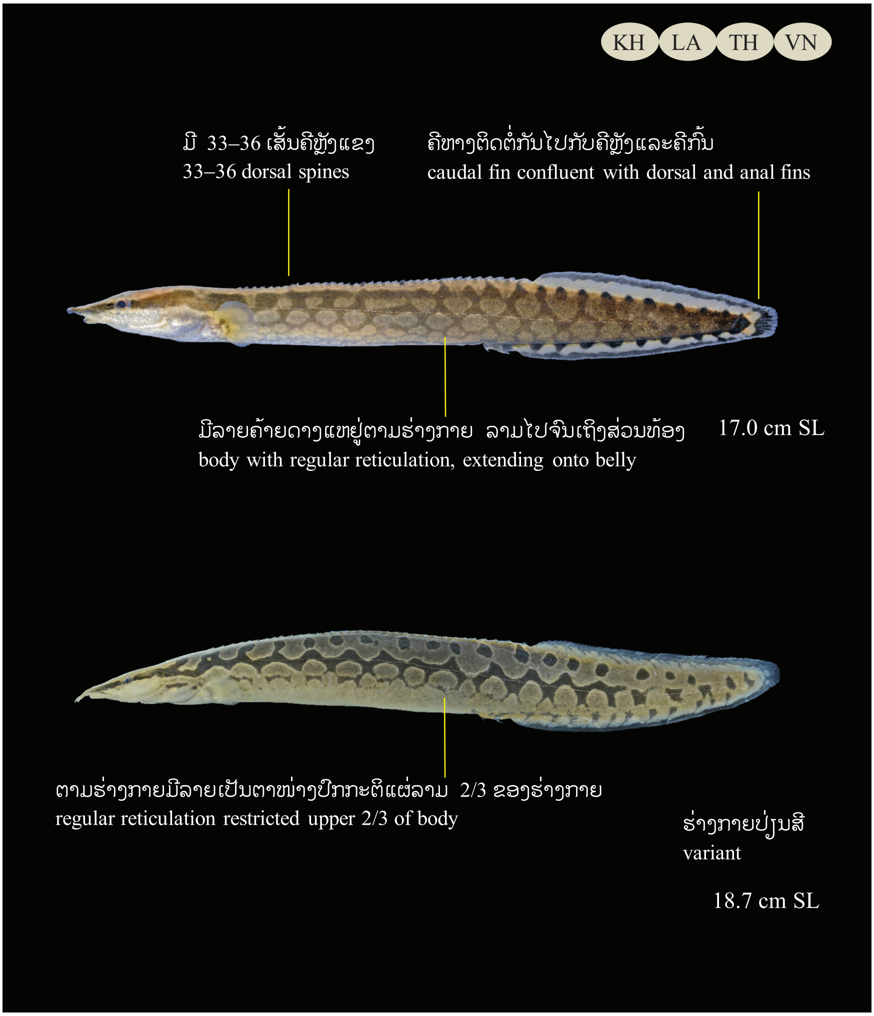


ປາຫຼົດດາວ *Macrognathus siamensis* (Günther, 1861)



ຕະກຸນປາຫຼົດ MASTACEMBELIDAE
SYNBRANCHIFORMES

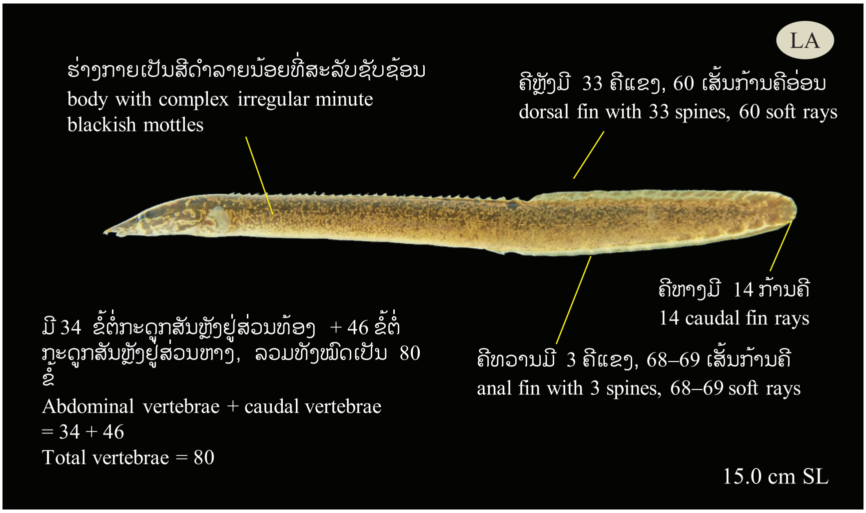
ປາຫຼາດ *Mastacembelus armatus* (Lacepède, 1800)



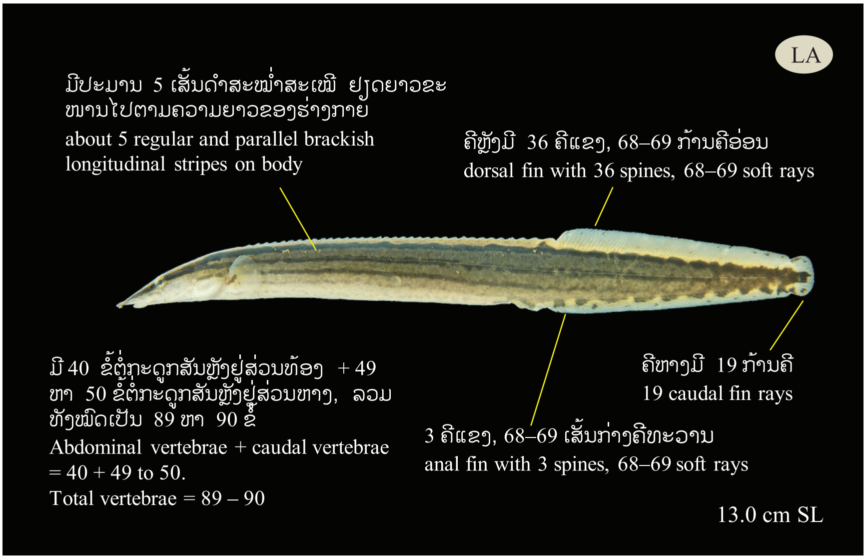
ຕະກຸນປາຫຼົດ MASTACEMBELIDAE

SYNBRANCHIFORMES

ປາຫຼາດ *Mastacembelus* cf. *pantherinus*



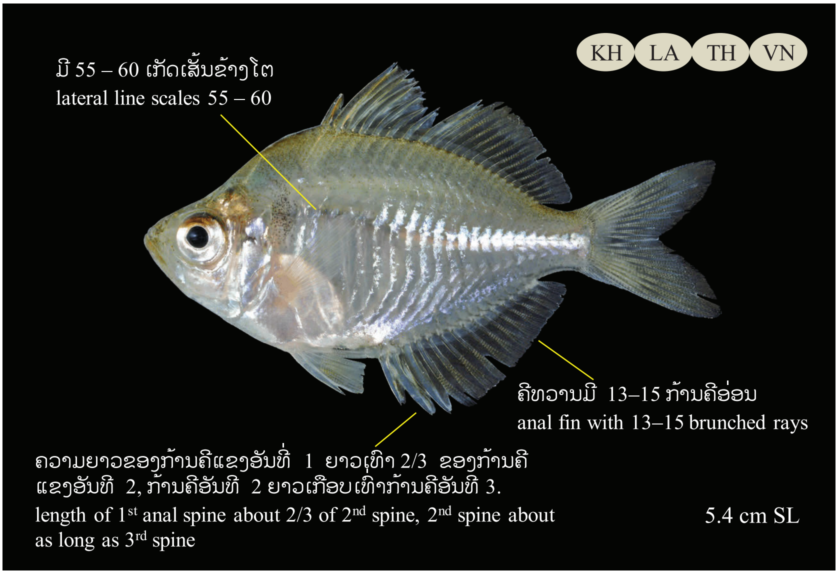
ປາຫຼາດ *Mastacembelus* cf. *tinwini*



ຕະກຸນປາຄັບຂອງ AMBASSIDAE PERCIFORMES

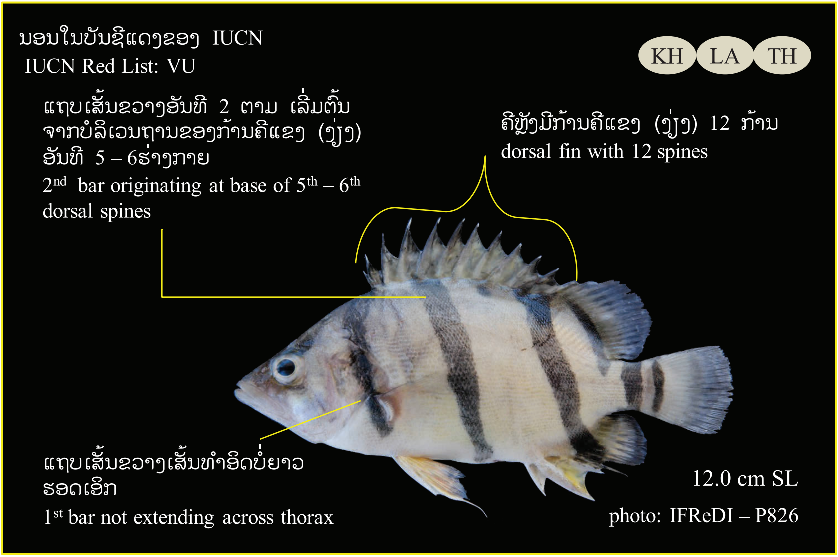
ປາຄັບຂອງ *Parambassis apogonoides* (Bleeker,1851)

ປາຄັບຂອງ *Parambassis siamensis* (Fowler,1937)



ຕະກູນປາເສືອ DATNIOIDAE PERCIFORMES

ປາເສືອ *Datnioides undecimradiatus* (Roberts & Kottelat, 1994)

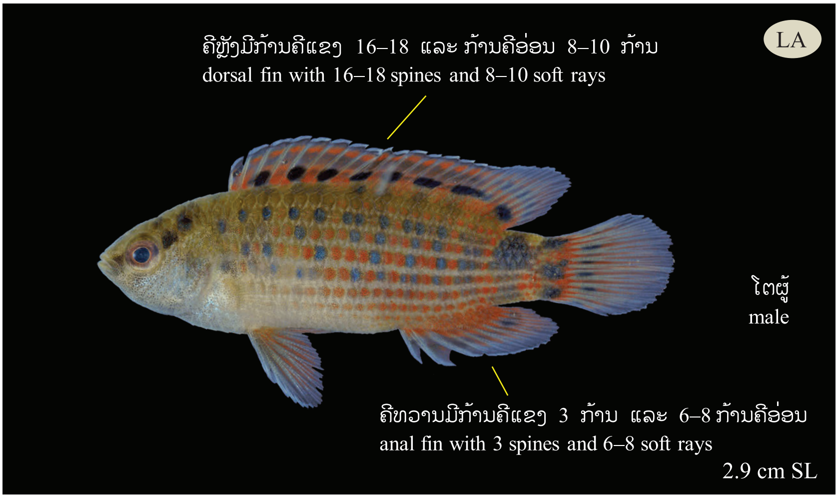


ຕະກູນປາເສືອພົ່ນນ້ຳ TOXOTIDAE PERCIFORMES

ປາເສືອພົ່ນນ້ຳ *Toxotes chatareus* (Hamiton, 1822)

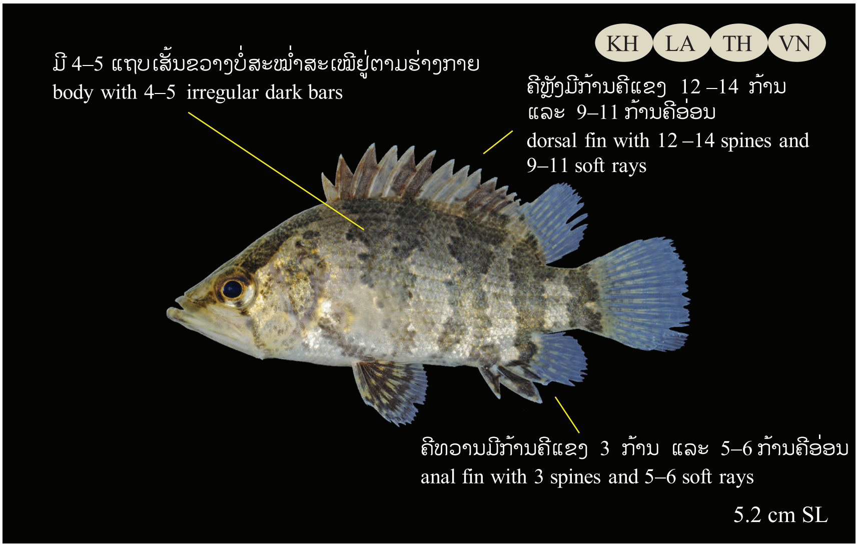
ຕະກຸນປາກັດໝໍ້ BADIDAE PERCIFORMES

ປາກັດໝໍ້ *Badis ruber* Schreitmüller, 1923



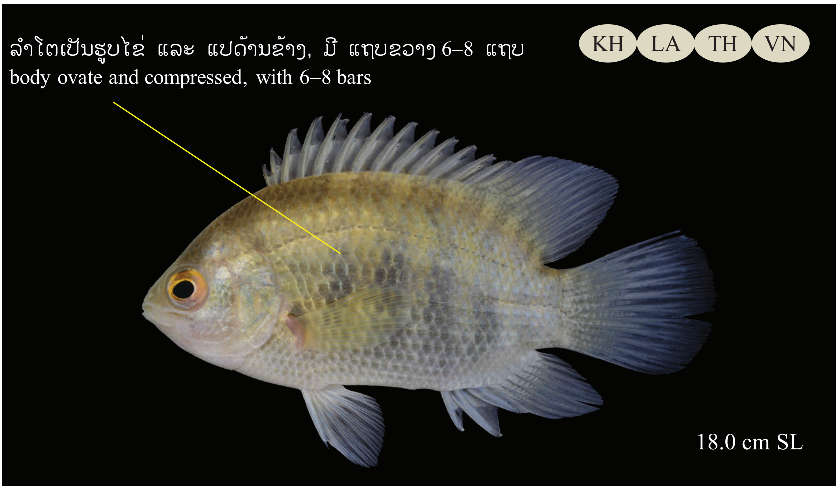
ຕະກຸນປາກ່າລາຍ NANDIDAE PERCIFORMES

ປາກ່າລາຍ *Nandus oxyrhynchus* Ng, Vidthayanon & Ng, 1996



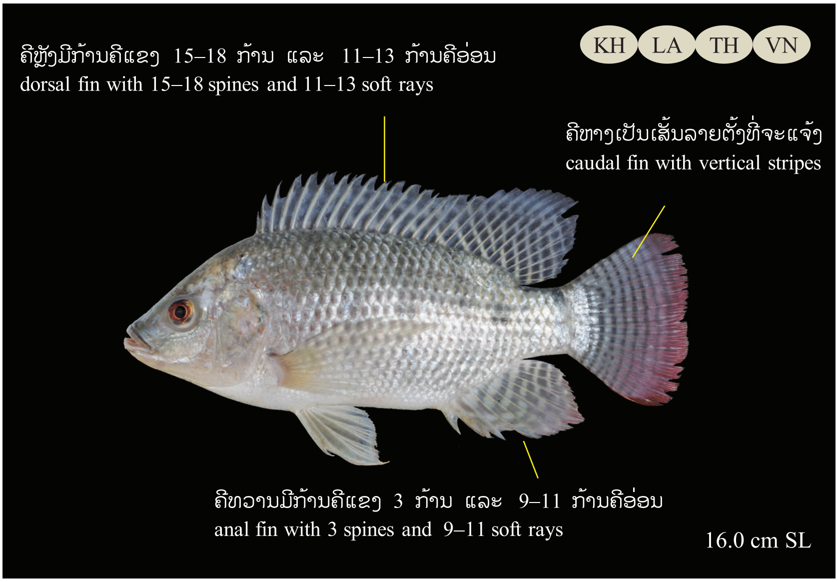
ຕະກູນປາກ່າ PRISTOLEPIDIDAE PERCIFORMES

ປາກ່າ *Pristolepis fasciata* (Bleeker, 1851)



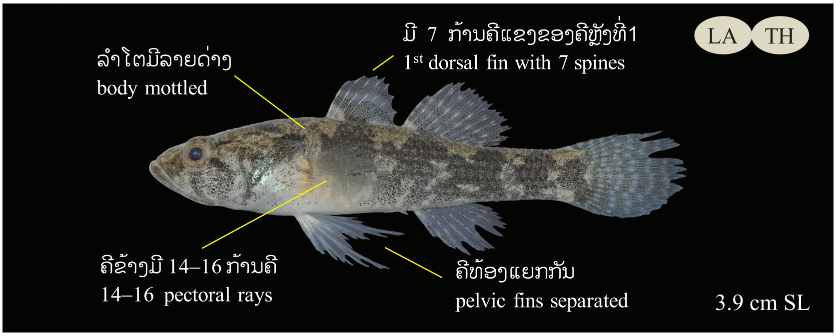
ຕະກູນປານິນ CICHLIDAE PERCIFORMES

ປານິນ *Oreochromis niloticus* (Linnaeus, 1758)

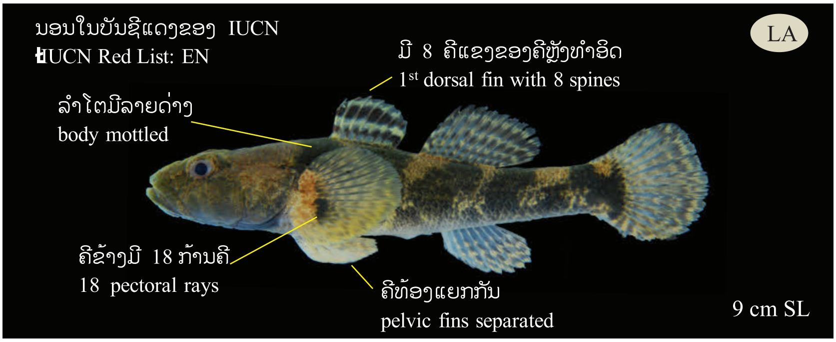


ຕະກຸນປາບູ່ ODONTOBUTIDAE PERCIFORMES

ປາບູ່ *Neodontobutis aurarmus* (Vidthayanon, 1995)

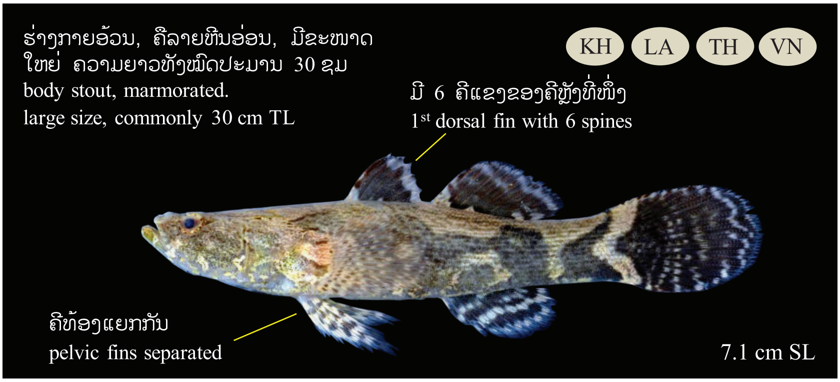


ປາບູ່ດຳ *Terateleotris aspro* (Kottelat, 1998)



ຕະກຸນປາບູ່ໃຫຍ່ ELEOTRIDIDAE PERCIFORMES

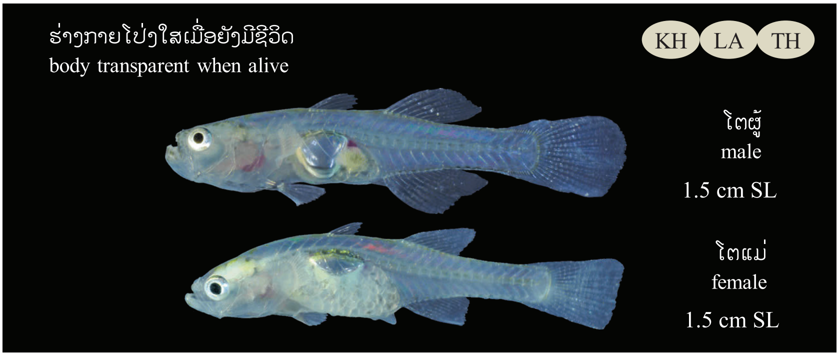
ປາບູ່ *Oxyeleotris marmorata* (Bleeker, 1852)



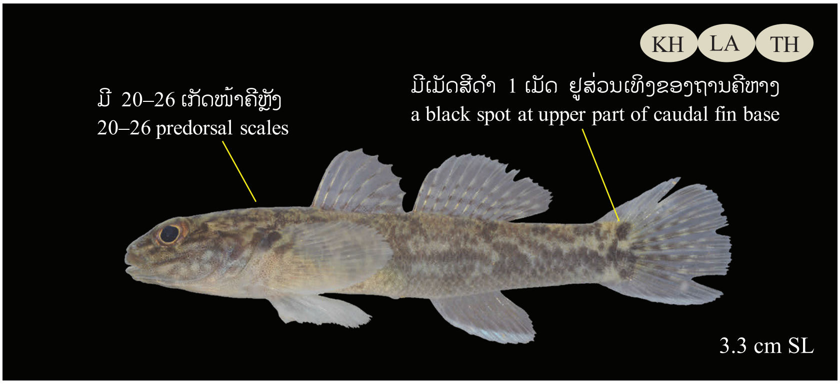
ຕະກູນປາບູ່ນ້ອຍ GOBIIDAE PERCIFORMES

ປາບູ່ *Brachygobius mekongensis* Larson & Vidthayanon, 2000

ປາບູ່ໃສ *Gobiopterus* cf. *chuno*

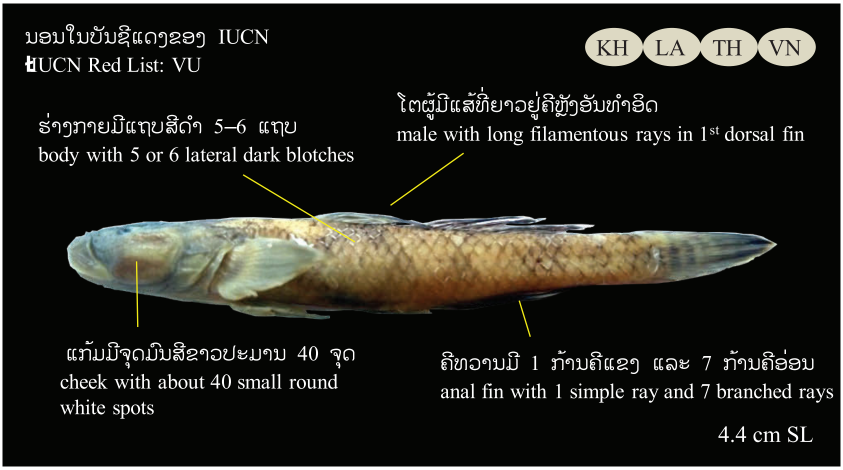


ປາບູ່ *Papuligobius ocellatus* (Fowler, 1937)

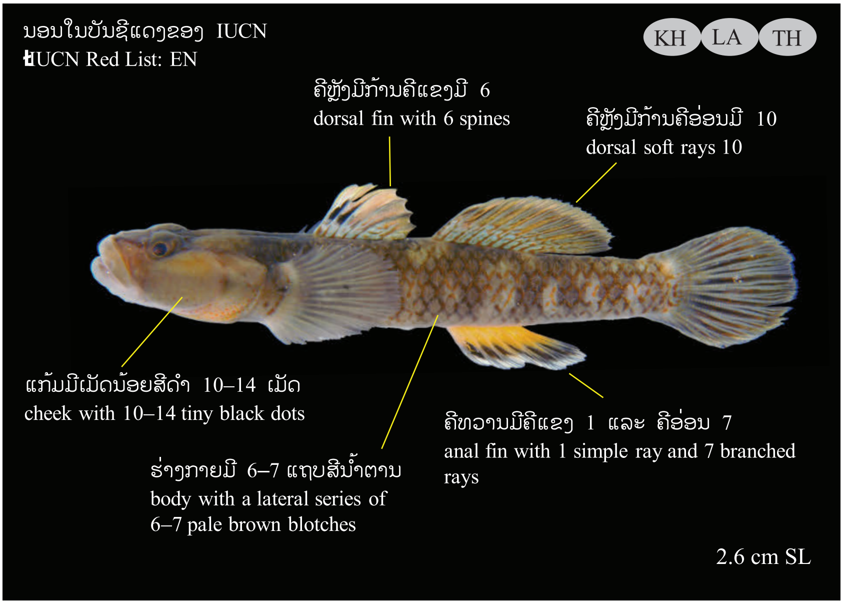


ຕະກຸນປາບູ່ນ້ອຍ GOBIIDAE PERCIFORMES

ປາບູ່ *Rhinogobius albimaculatus* Chen, Kottelat & Miller, 1999

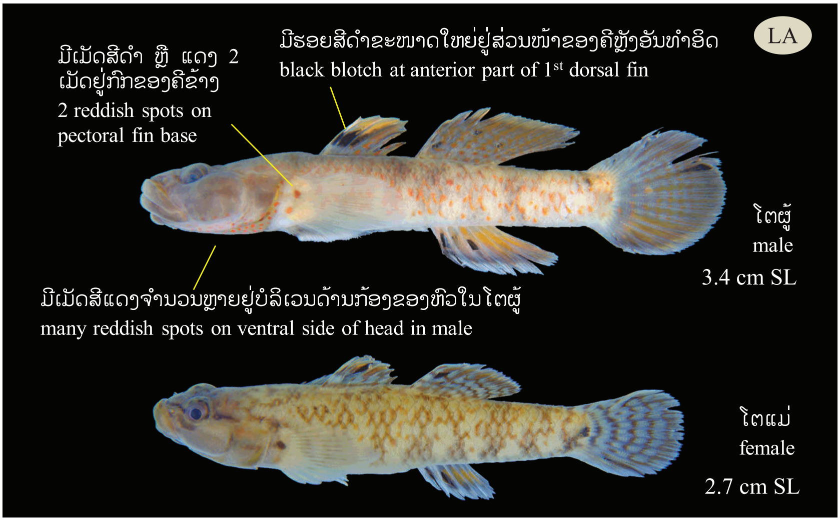


ປາບູ່ *Rhinogobius lineatus* Chen, Kottelat & Miller, 1999



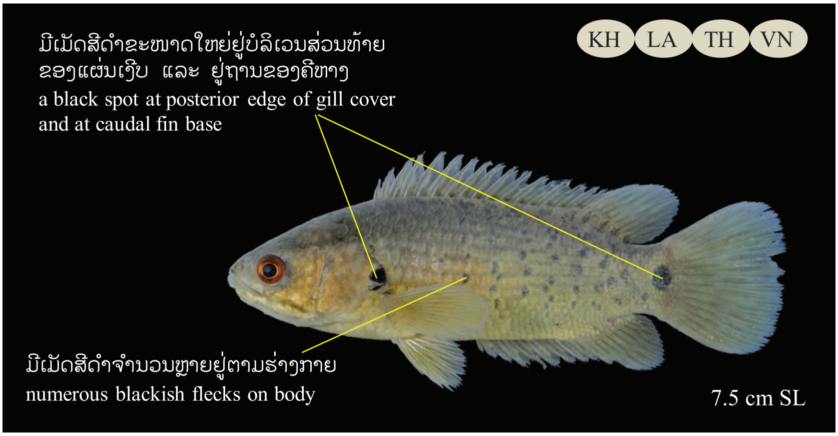
ປາບູ່ *Rhinogobius mekongianus* (Pellegrin & Fang, 1940)

ປາບູ່ *Rhinogobius taenigena* Chen, Kottelat & Miller, 1999



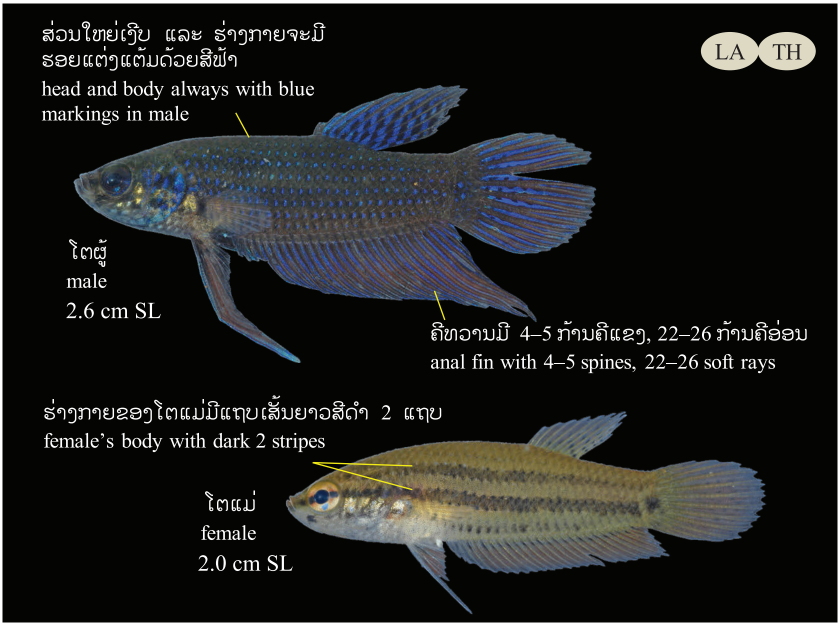
ຕະກູນປາເຂັງ ANABANTIDAE PERCIFORMES

ປາເຂັງ *Anabas testudineus* (Bloch, 1792)

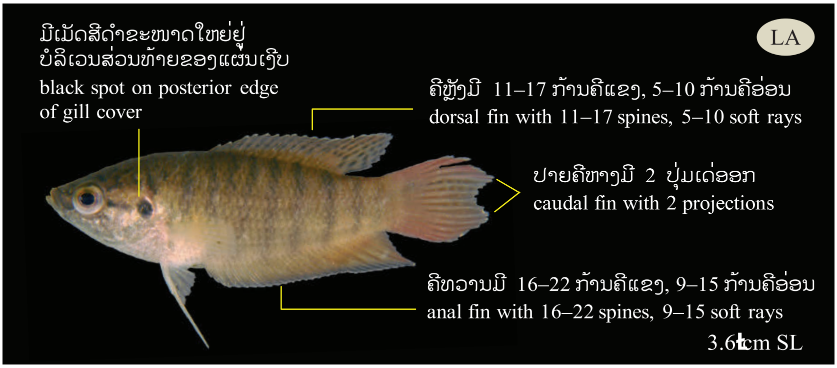


ຕະກູນປາກັດ OSPHRONEMIDAE PERCIFORMES

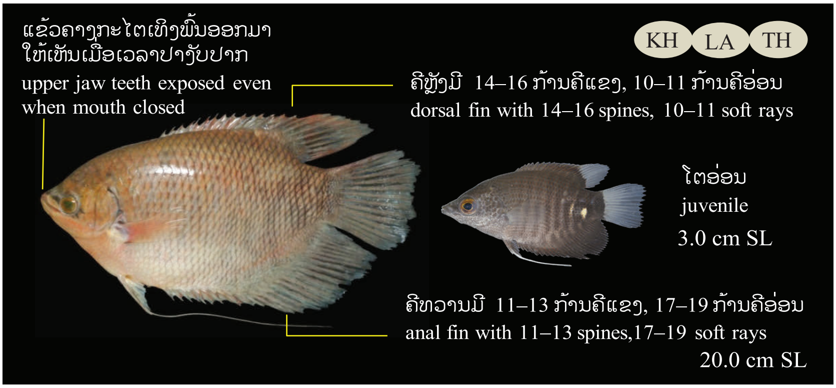
ປາກັດ *Betta smaragdina* Ladiges, 1972



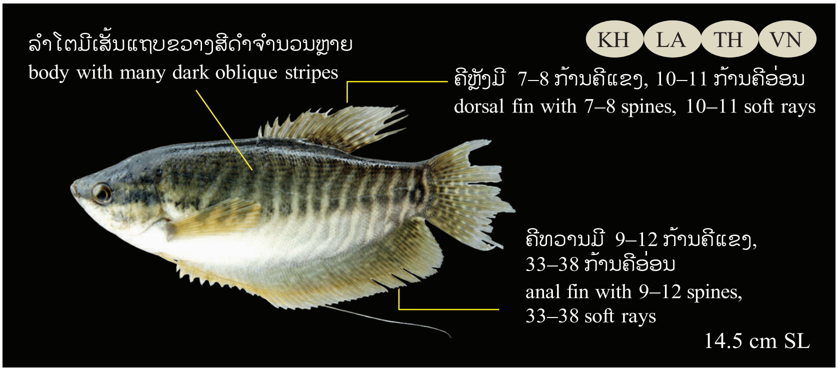
ປາກັດ *Macropodus opercularis* (Linnaeus, 1758)



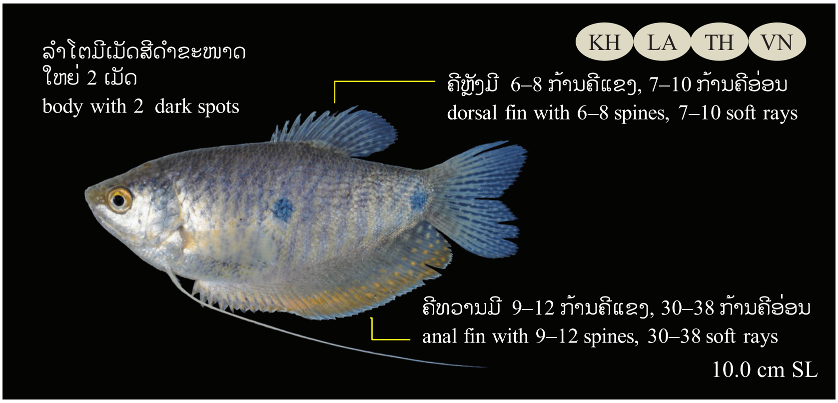
ປາເໜັ້ມ *Osphronemus exodon* Roberts, 1994



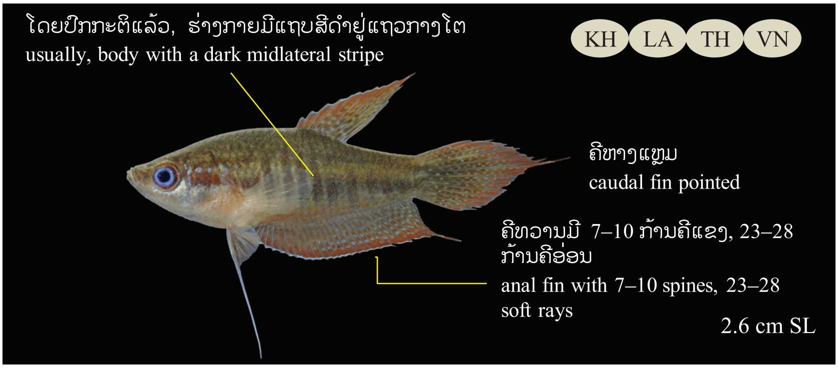
ປາສະລິດ *Trichopodus pectoralis* Regan, 1910



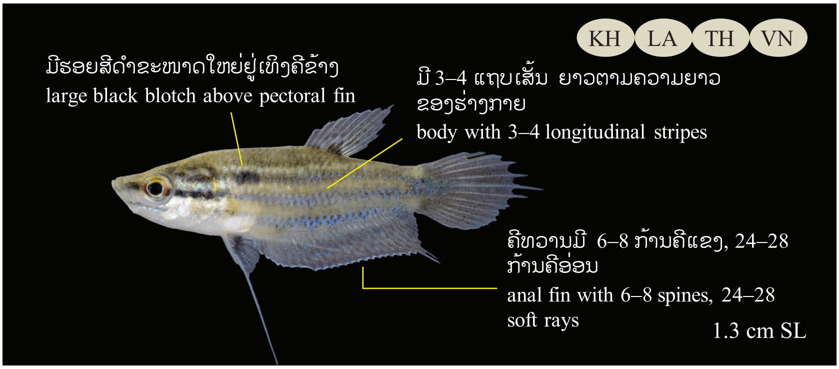
ປາກະເດີດຈໍ່າ *Trichopodus trichopterus* (Pallas, 1770)



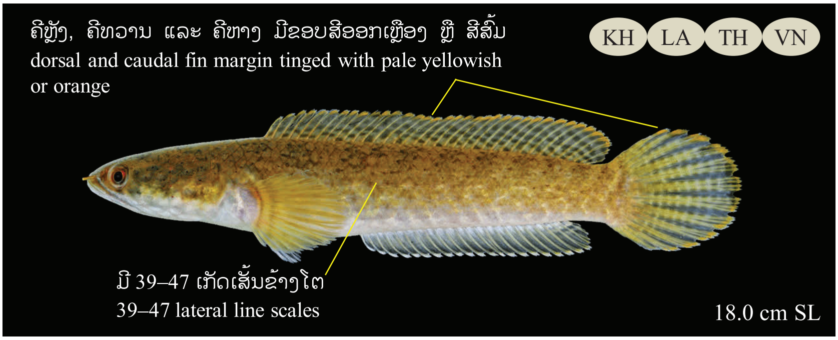
ປາມັດລາຍຂວາງ *Trichopsis schalleri* Ladiges, 1962



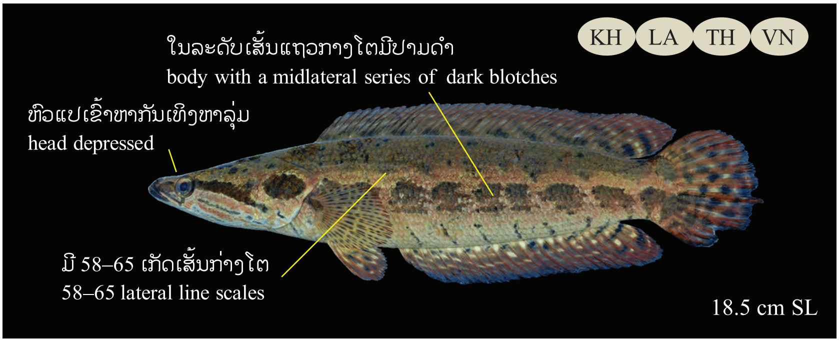
ປາມັດລາຍແຊກ *Trichopsis vittata* (Cuvier, 1831)



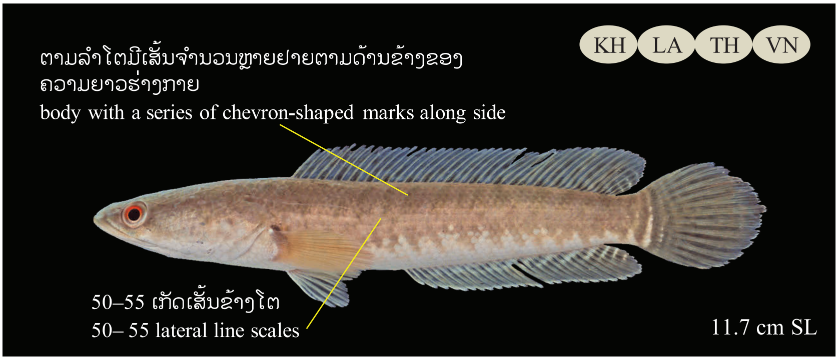
ປາຄໍ່ກັ້ງ *Channa gachua* (Hamilton, 1822)



ປາອີ່ໂຈນ *Channa lucius* (Cuvier, 1831)

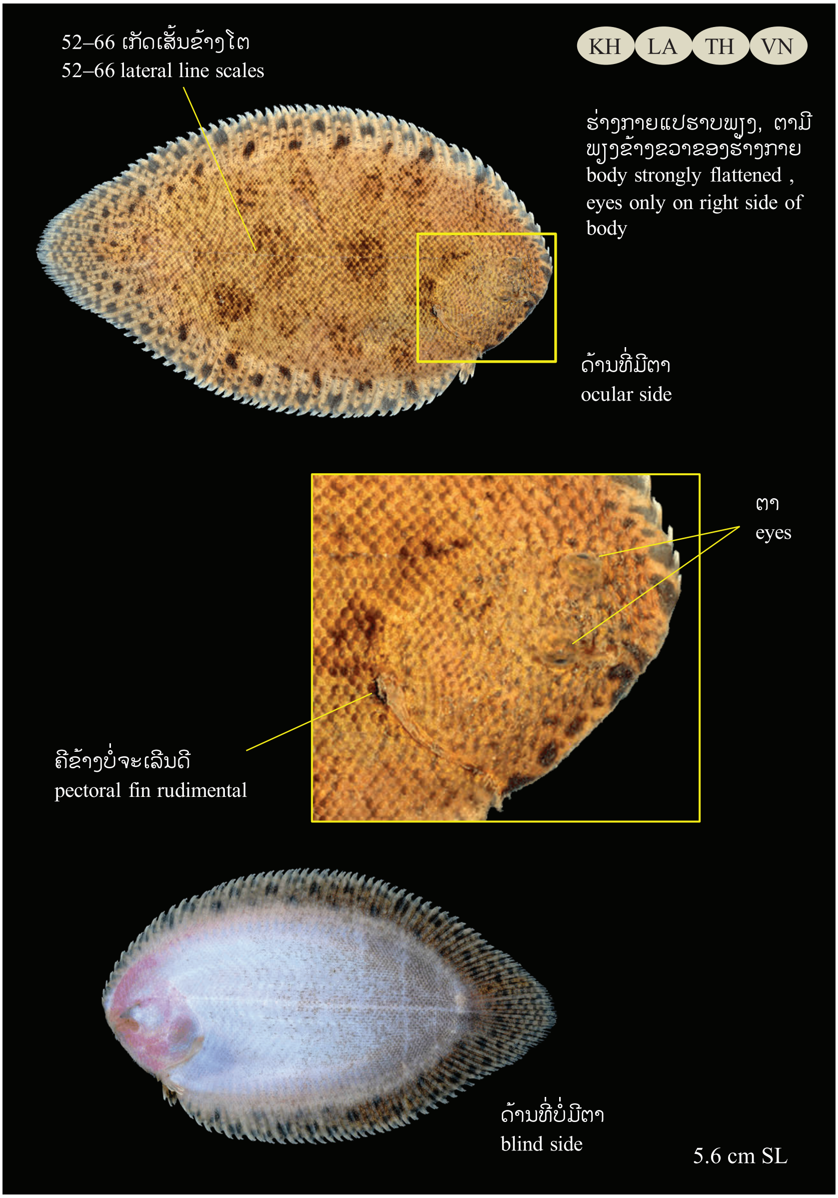


ປາຄໍ່ນາ, ປາຄໍ່ຂາວ *Channa striata* (Bloch, 1793)



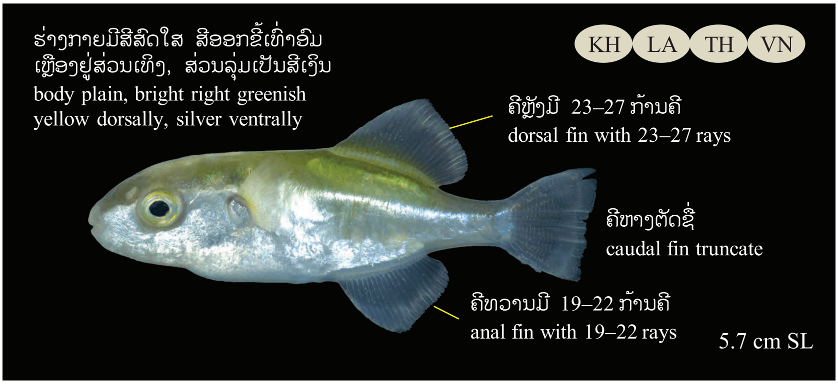
ຕະກຸນປາລີ້ນໝາ, ປາແປະ SOLEIDAE
PLEURONECTIFORMES

ປາລີ້ນໝາ, ປາແປະ *Brachirus harmandi* (Sauvage, 1878)



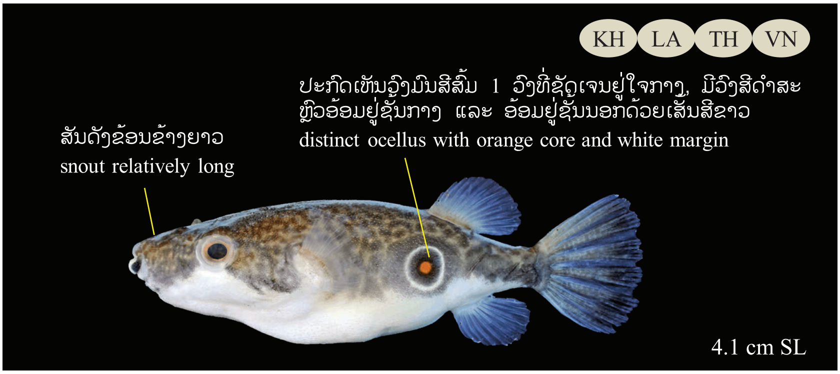
ຕະກຸນປາເປົ້າ TETRAODONTIDAE
TETRAODONTIFORMES

ປາເປົ້າເຫຼືອງ *Auriglobus nefastus* (Roberts, 1982)



ປາເປົ້າລາຍຈຸດນ້ອຍ *Pao abei* (Roberts, 1998)

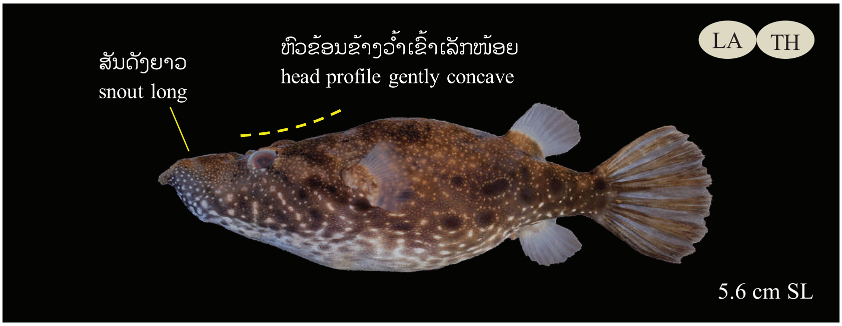
ປາເປົ້າດາວ *Pao barbatus* (Roberts, 1998)



ຕະກຸນປາເປົ້າ TETRAODONTIDAE
TETRAODONTIFORMES

ປາເປົ້າຈຸດໃຫຍ່
***Pao palustris* (Saenjundaeng, Vidthayanon & Grudpun 2013)**

ປາເປົ້າ *Pao suvattii* (Sontirat & Soonthornsatit, 1985)



ປາເປົ້າ *Pao turgidus* (Kottelat,2000)

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