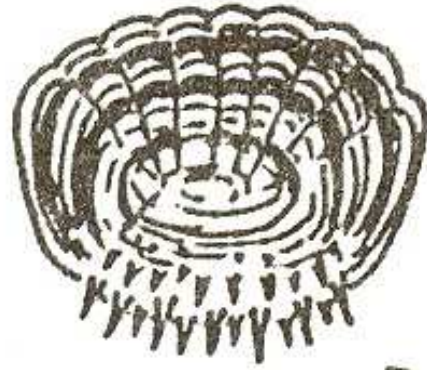
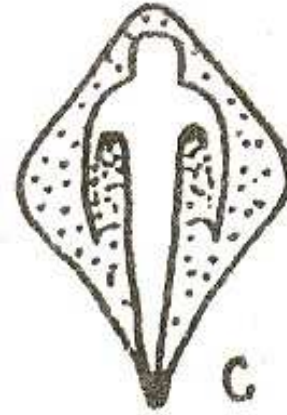




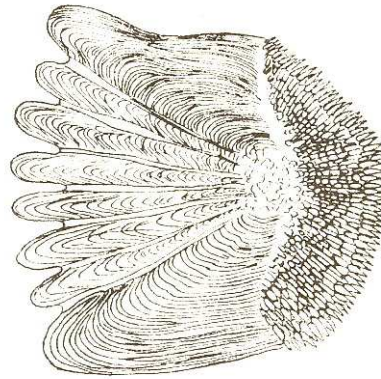
A

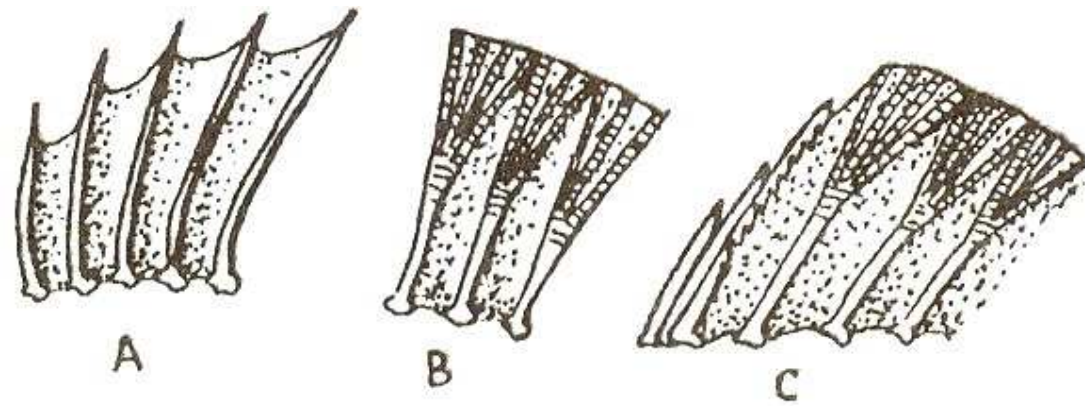
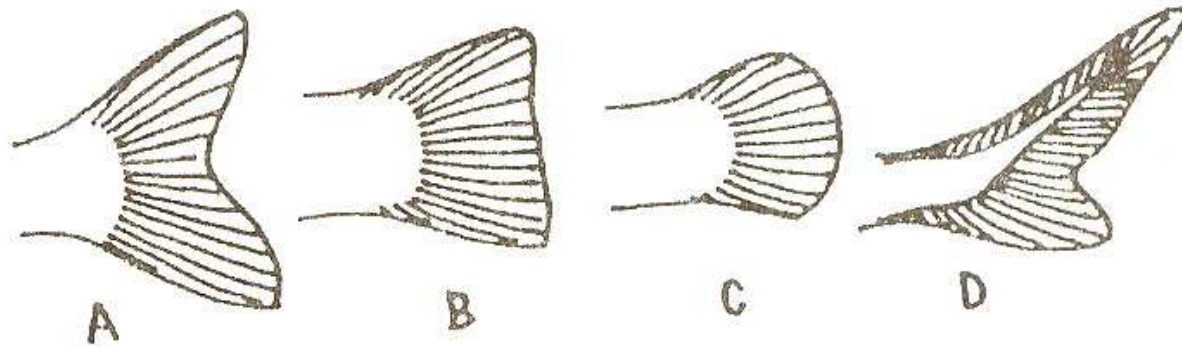
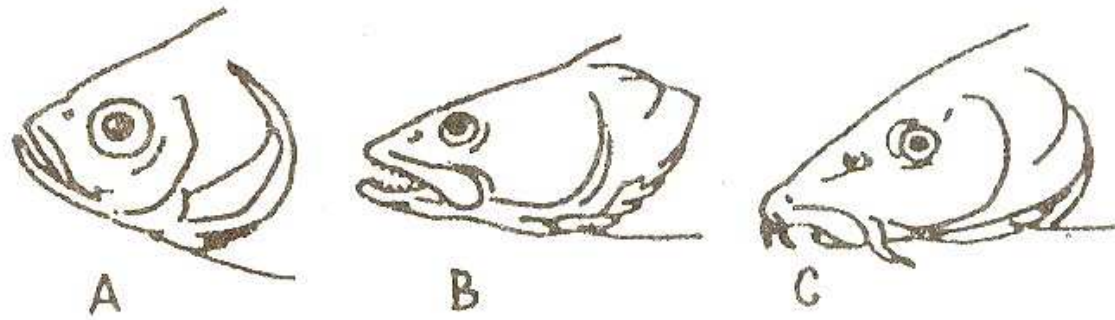


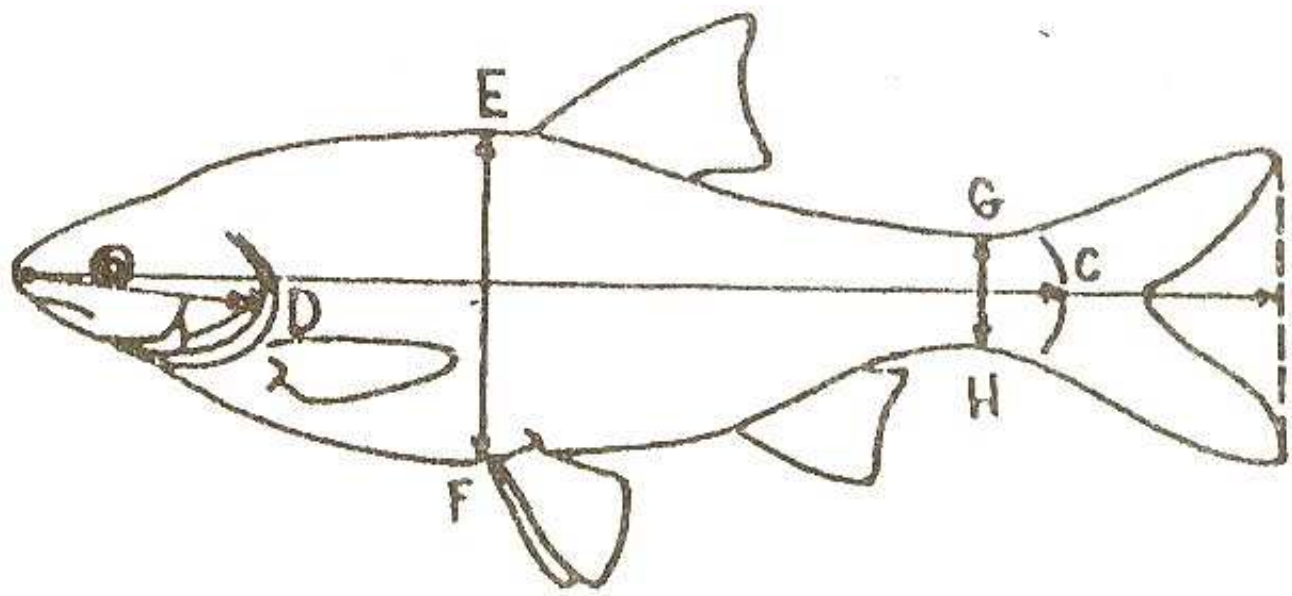
B



C

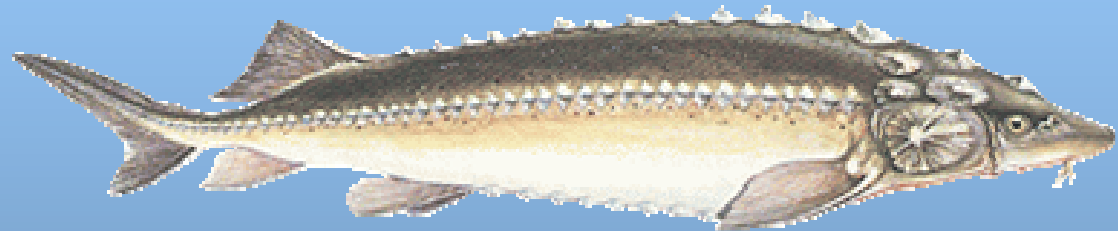






## *Accipenseridae* (jeseterovité)

- heterocerkná C
- rypec
- priečne ventrálne ústa s fúzikmi
- u nás 2 druhy:
  - *Acipenser gueldenstaedti* (jeseter ruský)
  - *Acipenser ruthenus* (jeseter malý)



*Acipenser gueldenstaedti* (jeseter ruský)



bočných štítkov < 50

fúziky hladké

2 m; 100 kg

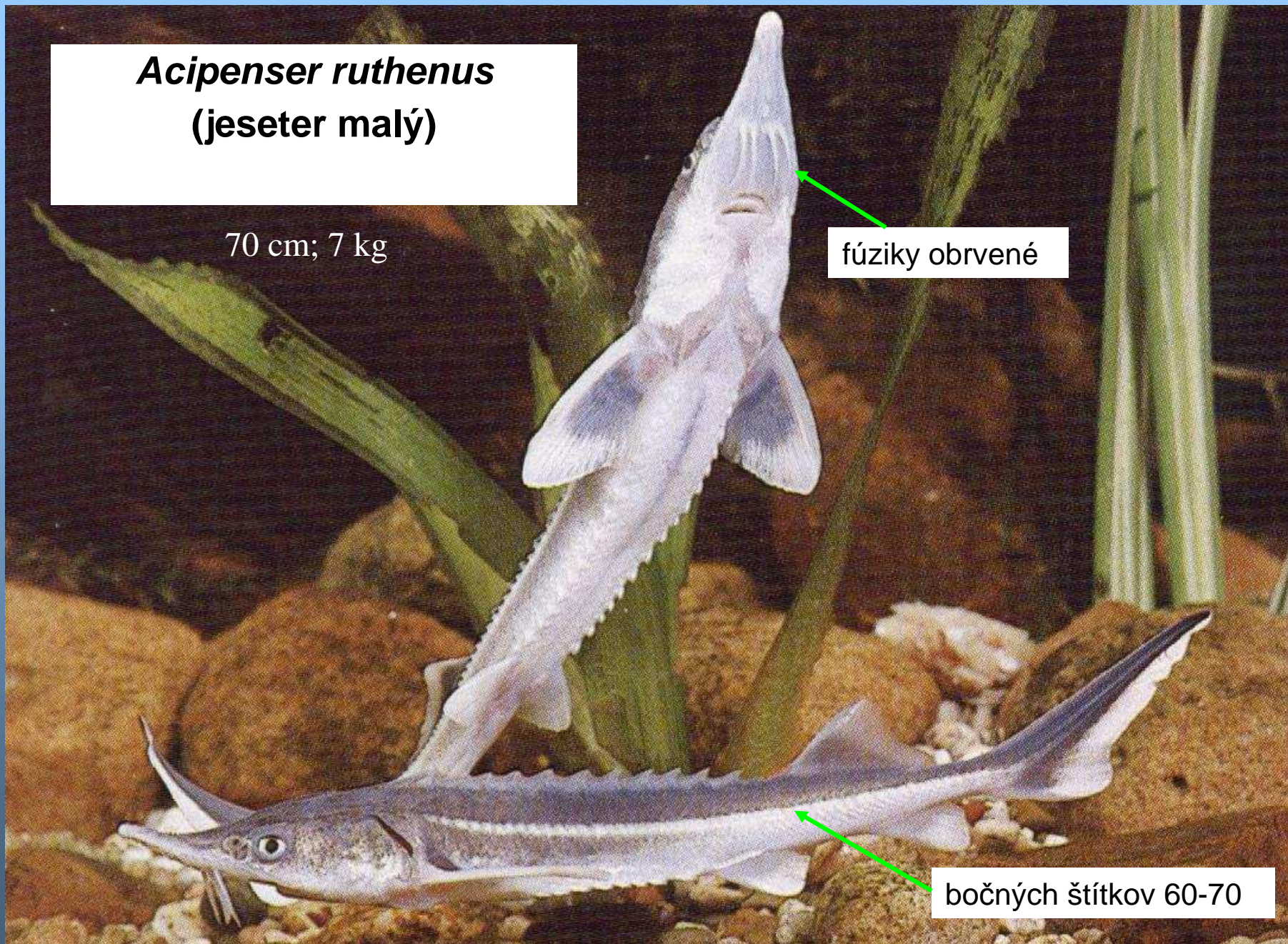


***Acipenser ruthenus***  
**(jeseter malý)**

70 cm; 7 kg

fúziky obrvené

bočných štítkov 60-70





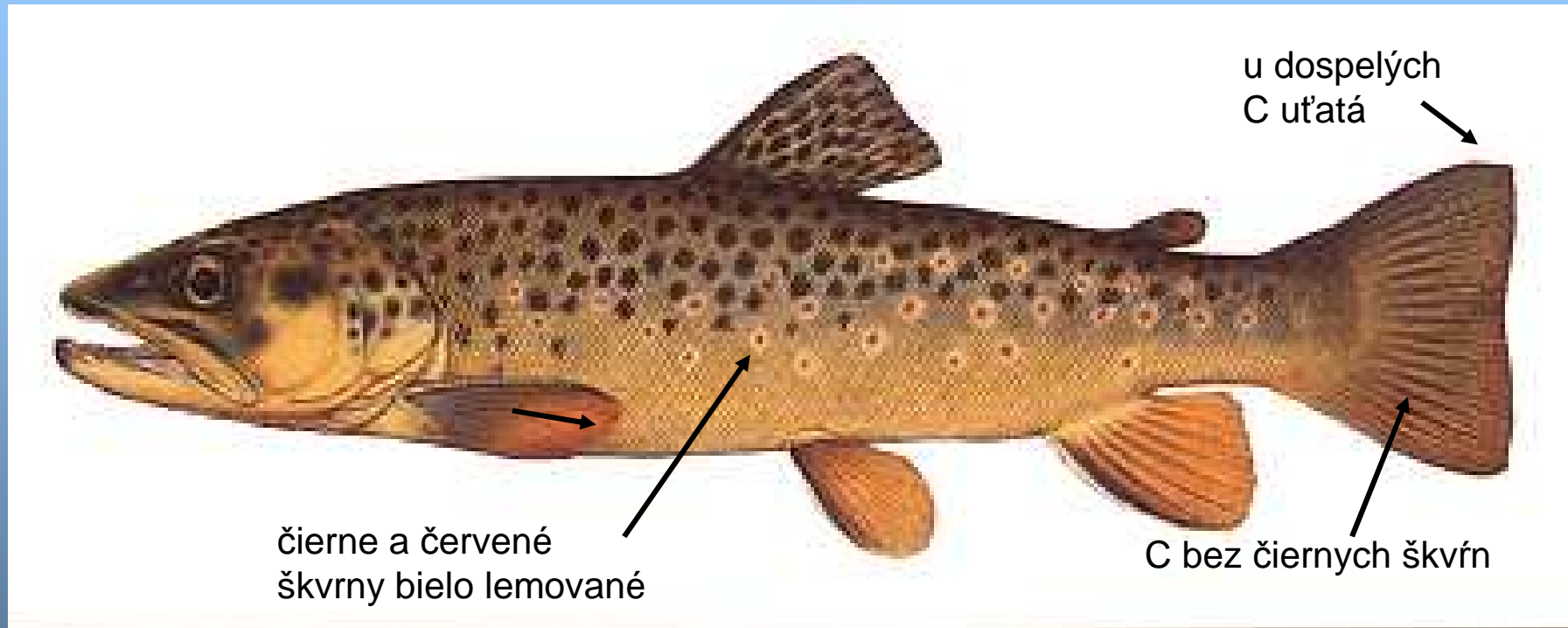
## *Salmonidae* (lososovit )

- tukov plutvika
- v D najviac 16 luov
- terminlne usta bez fuzov
- 5 rodov:
  - *Hucho* (hlavatka)
  - *Salmo* (pstruh)
  - *Oncorhynchus* (pstruh)
  - *Salvelinus* (sivon)
  - *Coregonus* (sih) - *Coregonidae*





***Salmo trutta morpha fario***  
(pstruh potočný)



< 50 (80) cm, 1 (6) kg

*Salmo trutta* morpha *fario*  
(pstruh potočný)





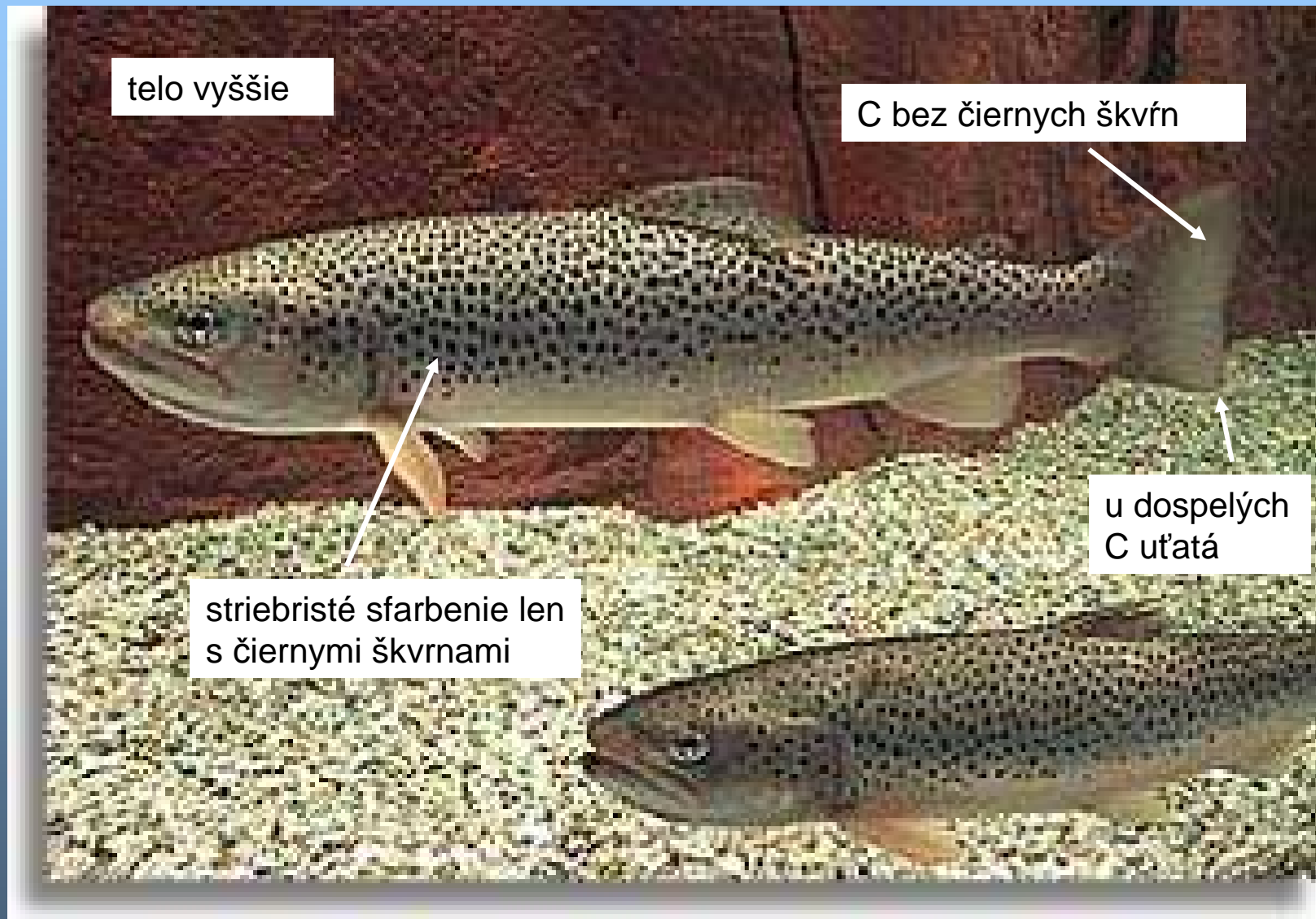
*Salmo trutta morpha fario*  
(pstruh potočný)



*Salmo trutta morpha fario*  
(pstruh potočný)



*Salmo trutta* morpha *lacustris*  
(pstruh jazerný)



< 70 (130) cm, 6 (40) kg



*Oncorhynchus mykiss*  
(pstruh dúhový)



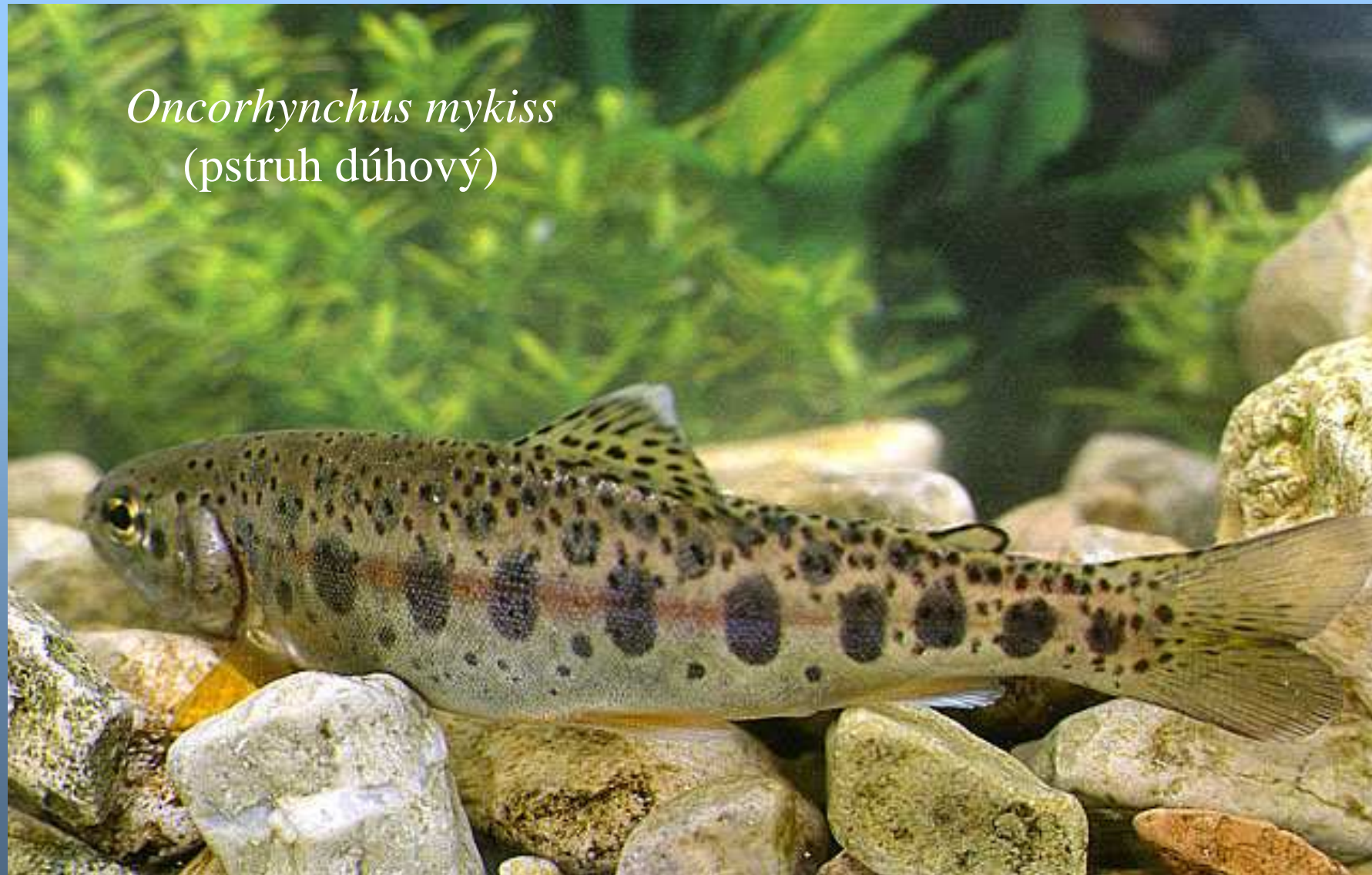
< 50 (120) cm, 1 (20) kg



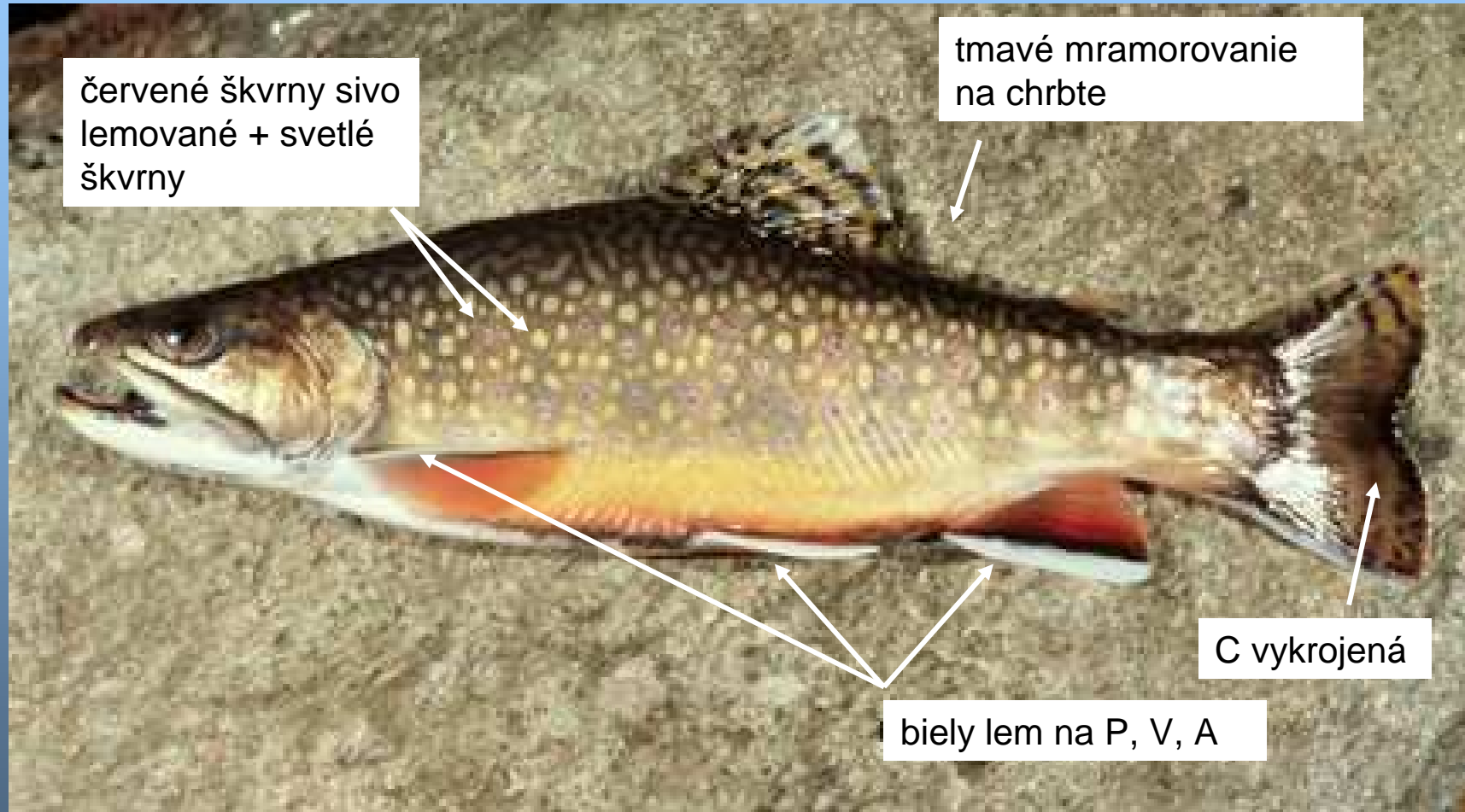
*Oncorhynchus mykiss*  
(pstruh d'uhov'ý)



*Oncorhynchus mykiss*  
(pstruh d'uhov'ý)



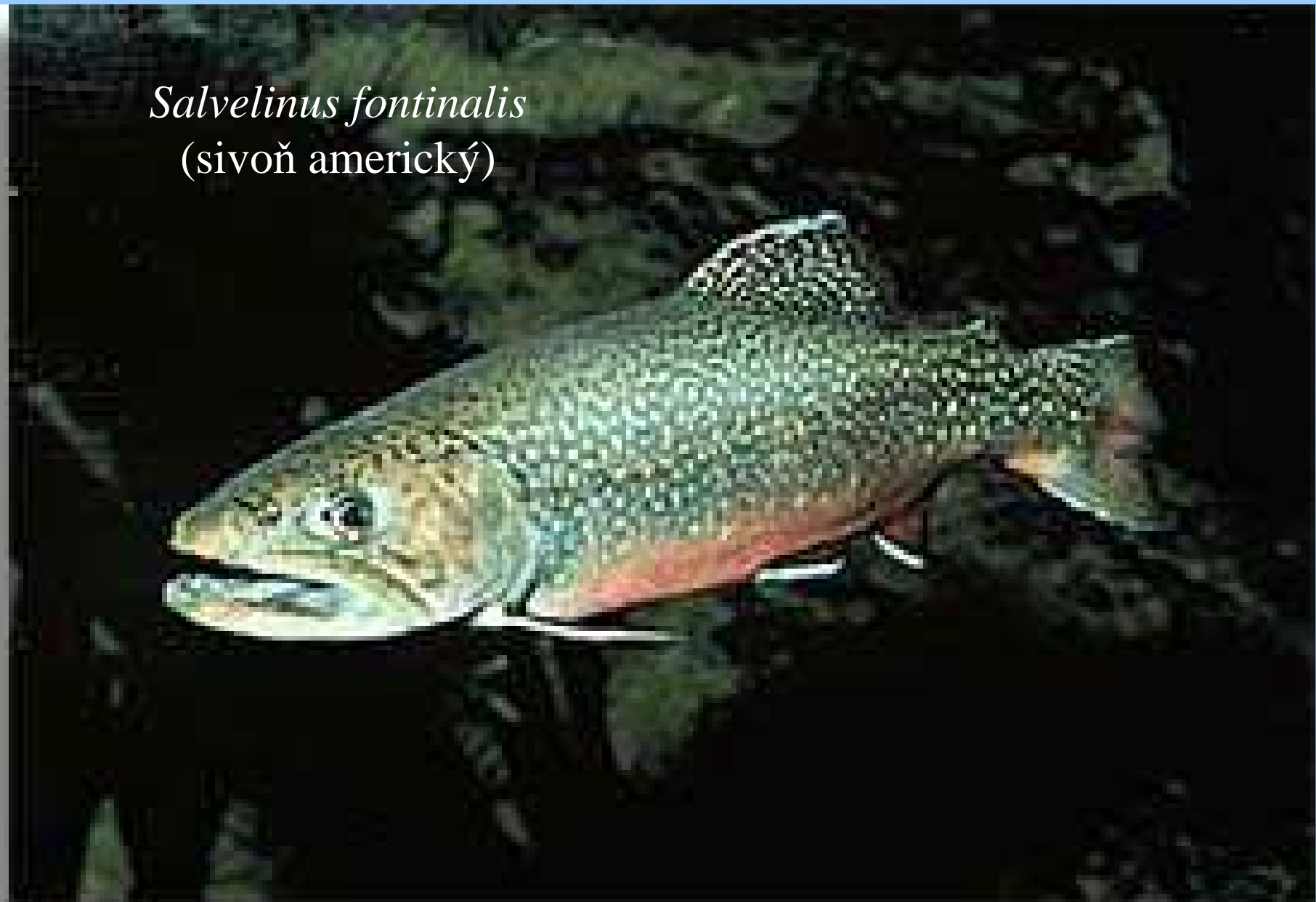
# *Salvelinus fontinalis* (sivoň americký)



< 40 (80) cm, 1 (6) kg



*Salvelinus fontinalis*  
(sivoň americký)



*Salvelinus fontinalis*  
(sivoň americký)

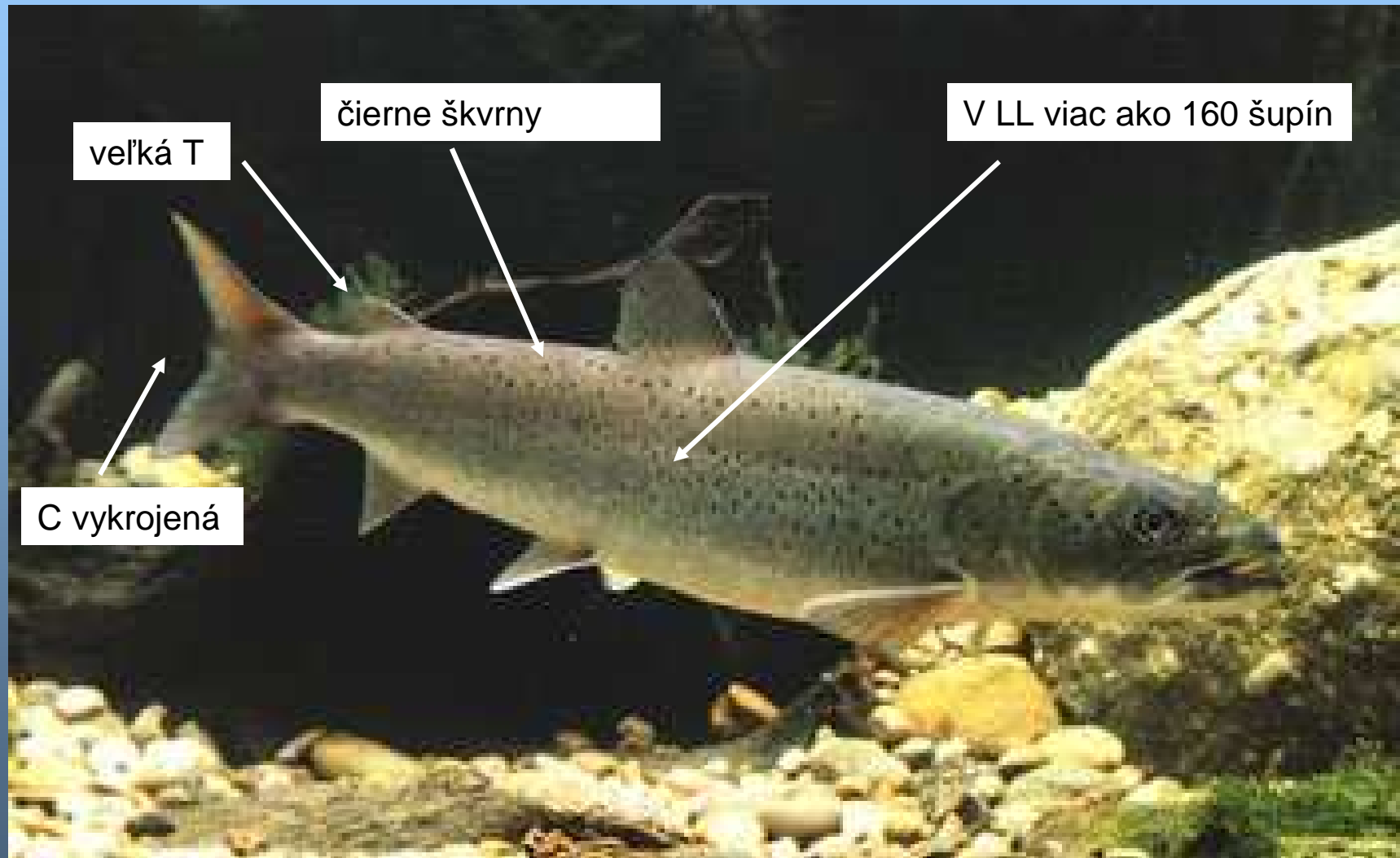


*Salvelinus fontinalis*  
(sivoň americký)





*Hucho hucho*  
(hlavátka podunajská)

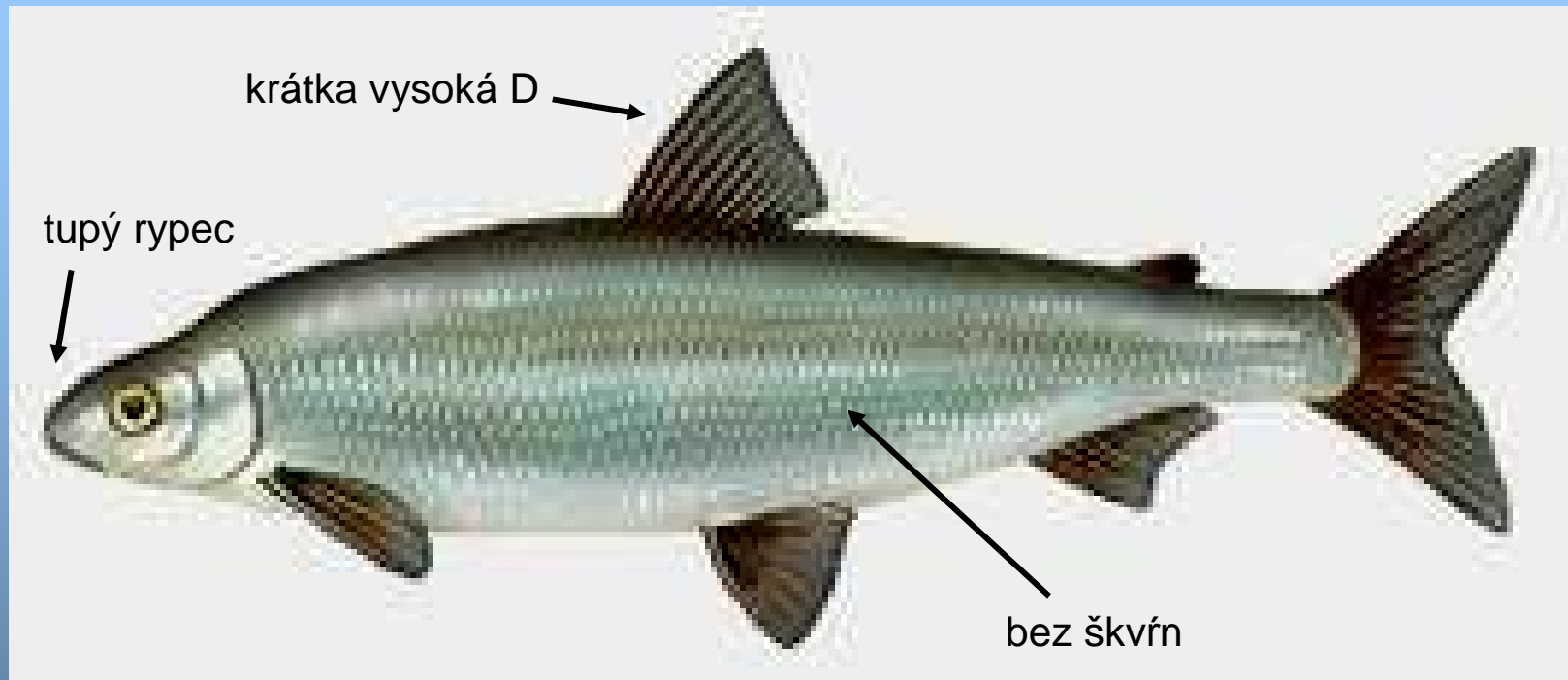


< 180 cm, 60 kg

*Hucho hucho*  
(hlavátka podunajská)



*Coregonus lavaretus* (síh veľký)  
*C. maraena* (síh maréna)



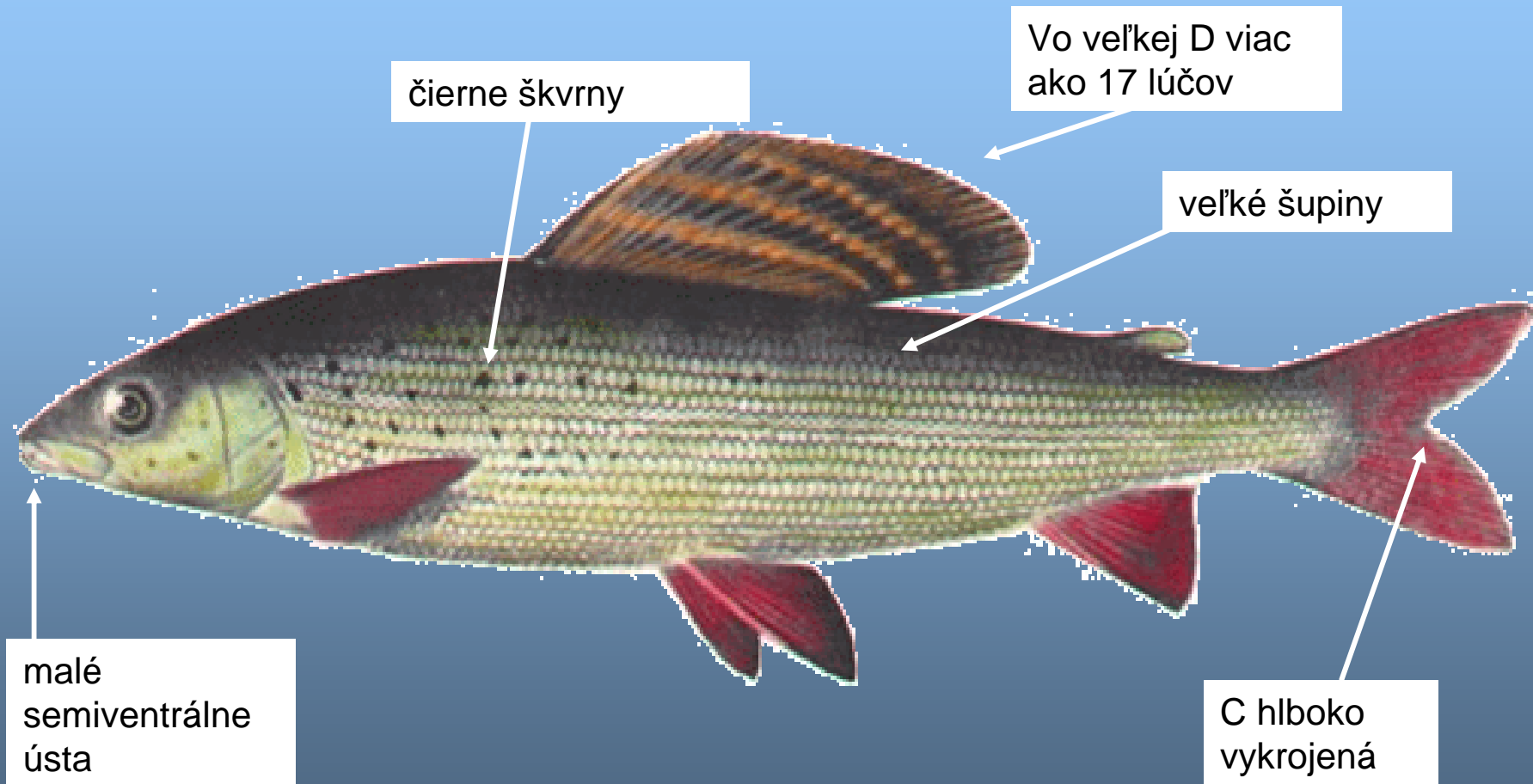
< 50 (120) cm, 2 (10) kg



*Coregonus lavaretus* (síh veľký)



*Thymallus thymallus*  
(lipeň timiánový)



< 40 cm, 0.5 kg

*Thymallus thymallus*  
(lipeň timiánový)





*Thymallus thymallus*  
(lipeň timiánový)



*Thymallus thymallus*  
(lipeň timiánový)



## Cyprinidae (kaprovité)

- čeluste bez zubov
- piaty žiabrový oblúk premenený na pažerákové zuby (aj u *Cobitidae* a *Balitoridae*)
- okolo úst 0 - 2 páry fúzov
- chvostová plutva vykrojená
- u nás vyše 30 druhov



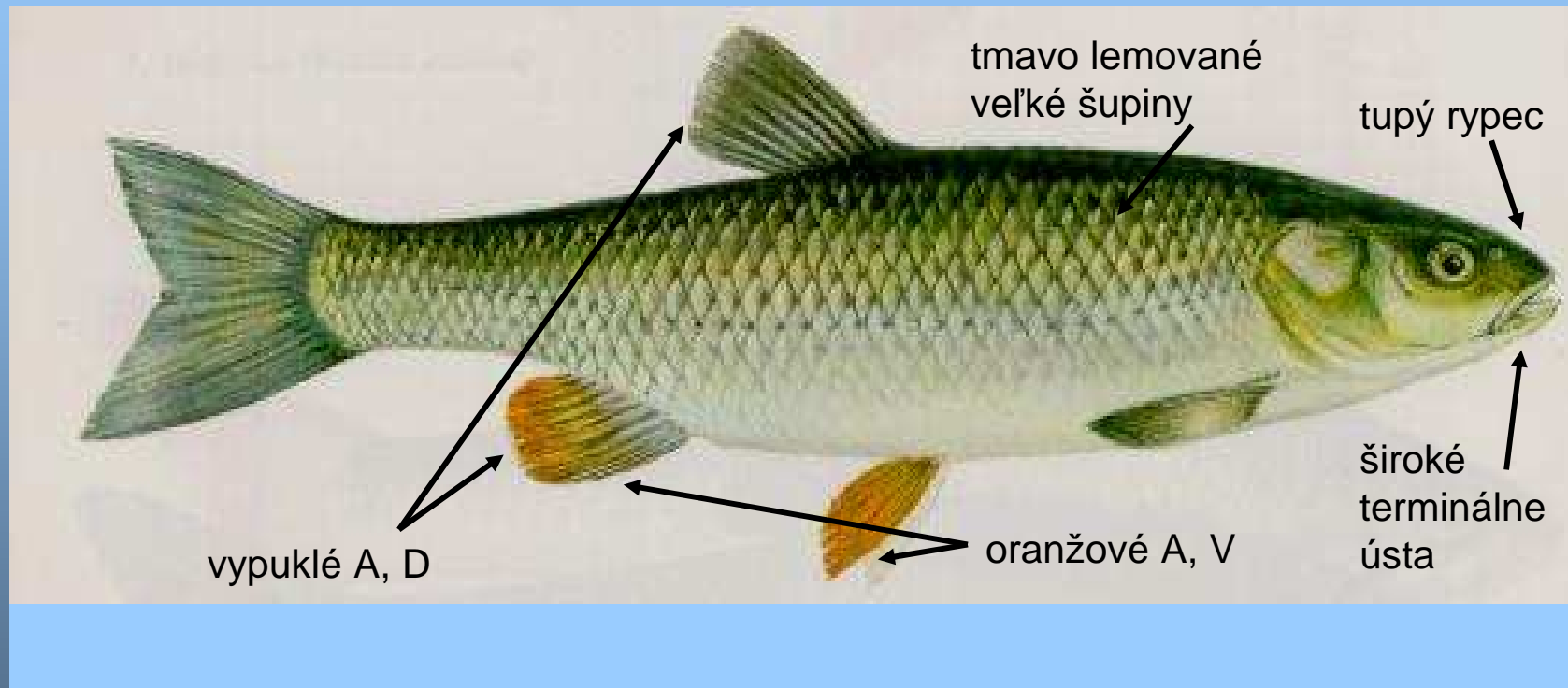


## *Leuciscus* sp. (jalec)

- telo valcovité
- brucho bez kýlu (zaoblené)
- 3 druhy:
  - *L. cephalus* (j. hlavatý)
  - *L. leuciscus* (j. maloústý)
  - *L. idus* (j. tmavý)



## *Leuciscus cephalus* (jalec hlavatý)



< 50 cm, 2 kg  
(LL 43 – 47)

*Leuciscus cephalus* (jalec hlavatý)



*Leuciscus cephalus* (jalec hlavatý)





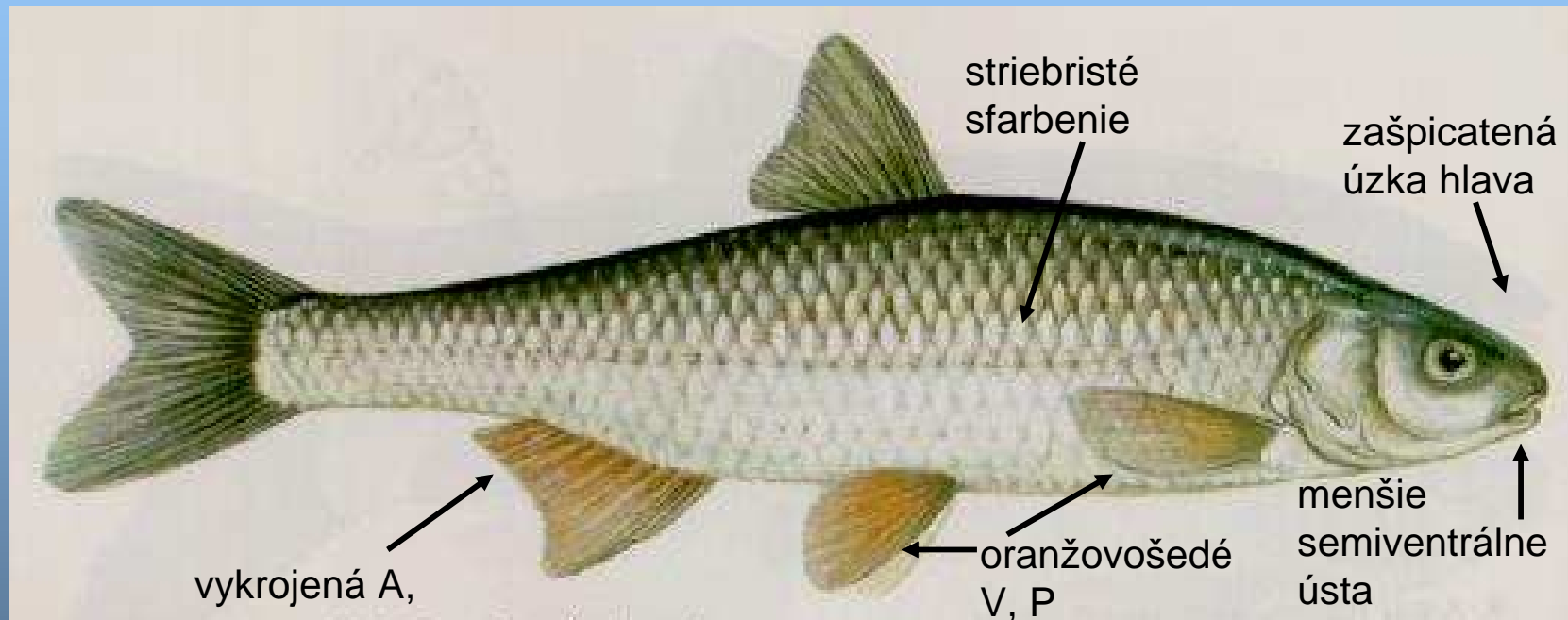
*Leuciscus cephalus* (jalec hlavatý)



*Leuciscus cephalus* (jalec hlavatý)

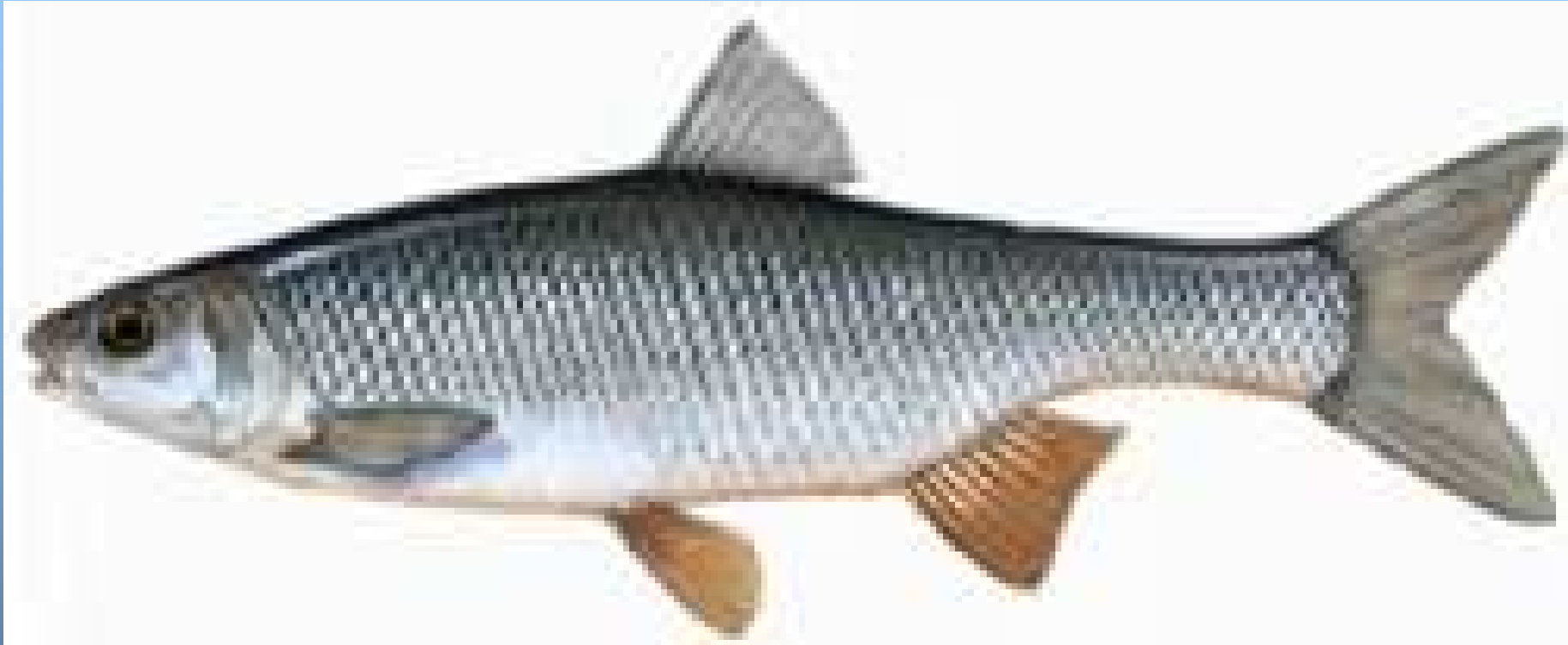


*Leuciscus leuciscus* (jalec maloústý)



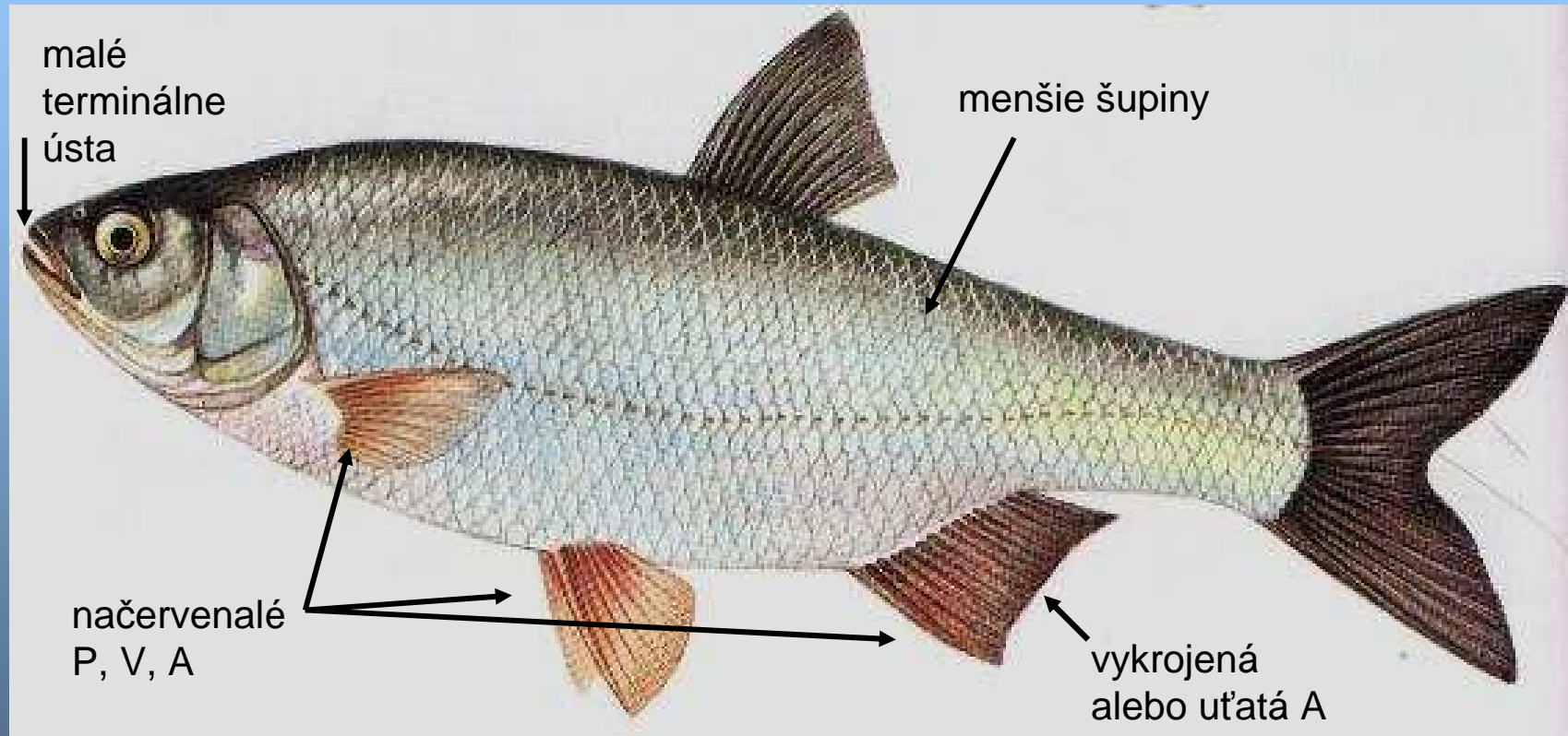
< 25 cm, 0.2 kg  
(LL 46 – 52)

*Leuciscus leuciscus* (jalec maloústy)





## *Leuciscus idus* (jalec tmavý)



< 40 cm, 1 kg  
(LL 56 – 62)

*Leuciscus idus* (jalec tmavý)



*Leuciscus idus* (jalec tmavý)



*Leuciscus idus* (jalec tmavý)



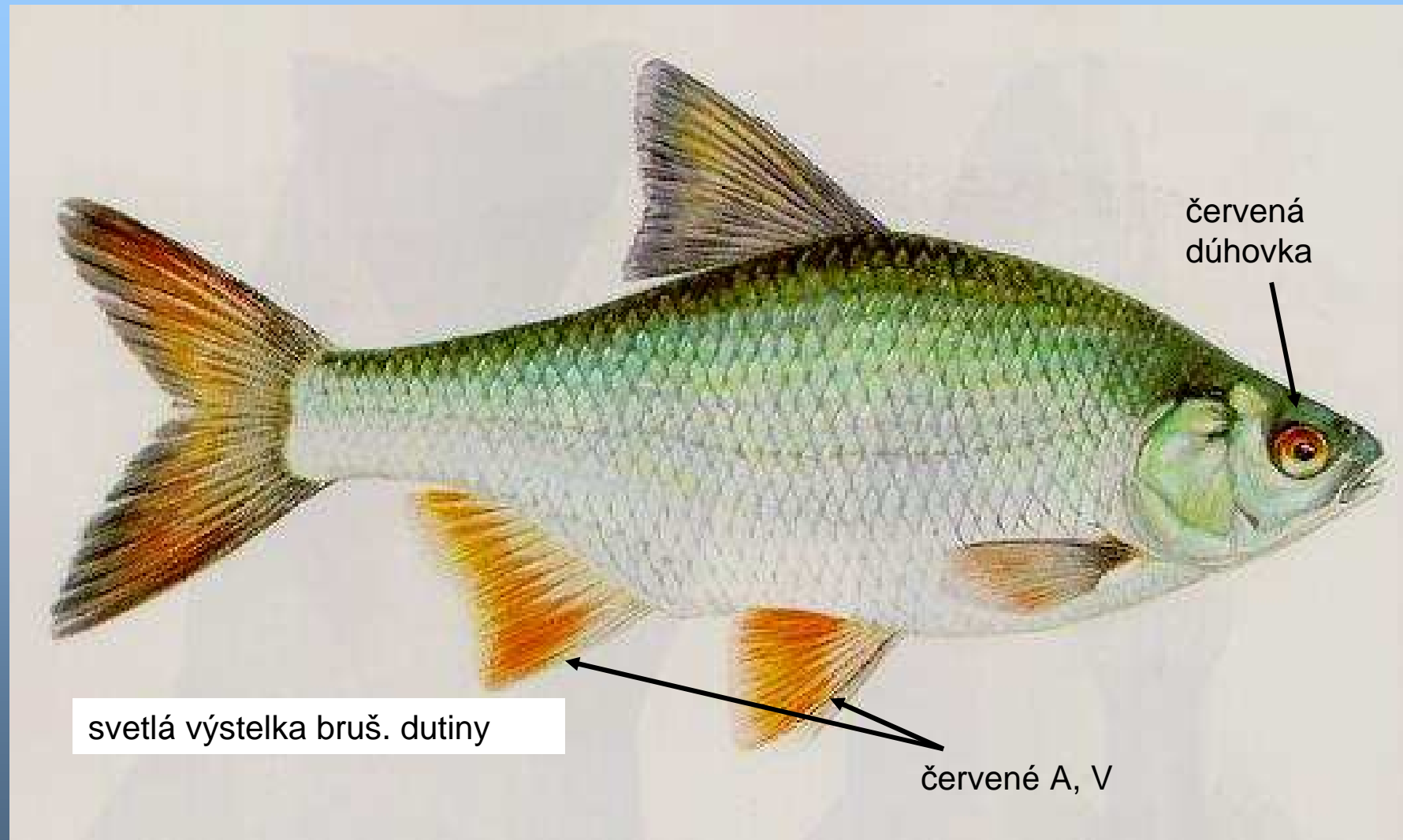


## *Rutilus* sp. (plotica)

- telo zo strán sploštené
- za V ošupený kýl
- D na úrovni V
- 3 druhy:
  - *R. rutilus* (p. červenooká)
  - *R. pigus virgo* (p. lesklá)
  - *R. meidingeri* (p. perleťová)



*Rutilus rutilus* (plotica červenooká)



< 40 cm, 1 kg  
(LL 41 – 43)

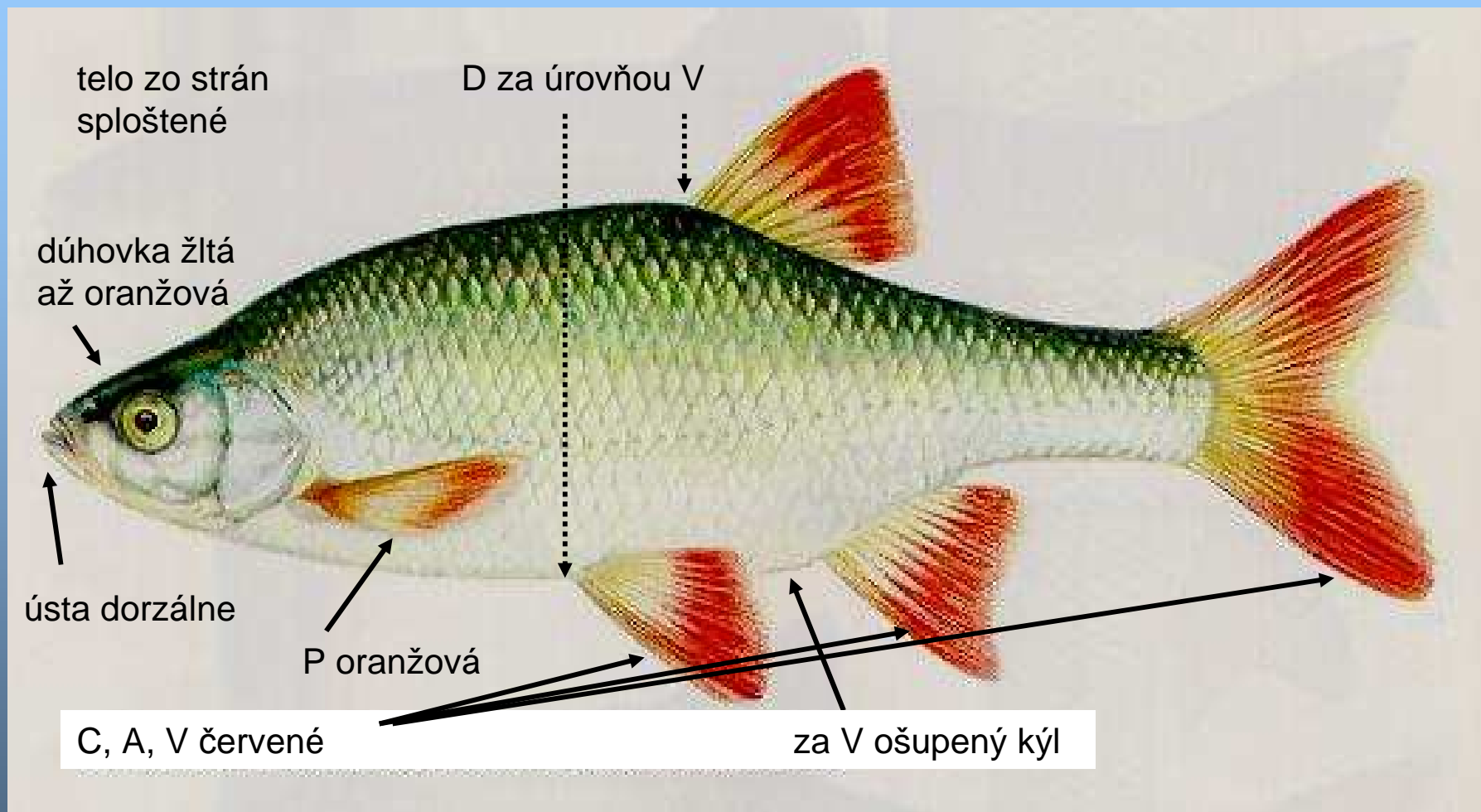
*Rutilus rutilus* (plotica červenooká)



*Rutilus rutilus* (plotica  
červenooká)



## *Scardinius erythrophthalmus* (červenica ostrobruchá)



< 35 cm, 1 kg  
(LL 32 – 43)



*Scardinius erythrophthalmus* (červenica ostrobruchá)



*Scardinius erythrophthalmus* (červenica ostrobruchá)

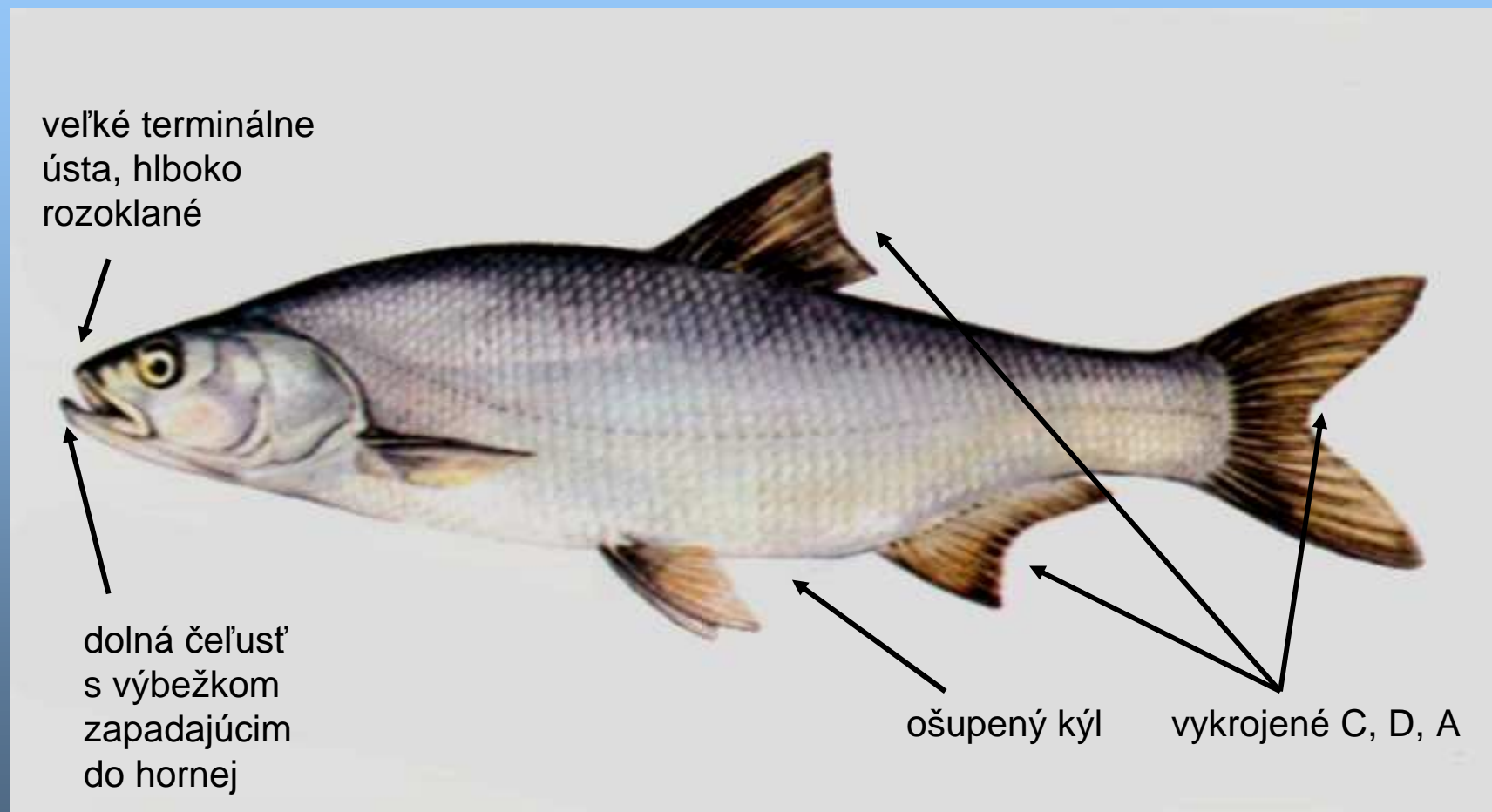




*Scardinius erythrophthalmus* (červenica ostrobruchá)



## *Aspius aspius* (boleň dravý)

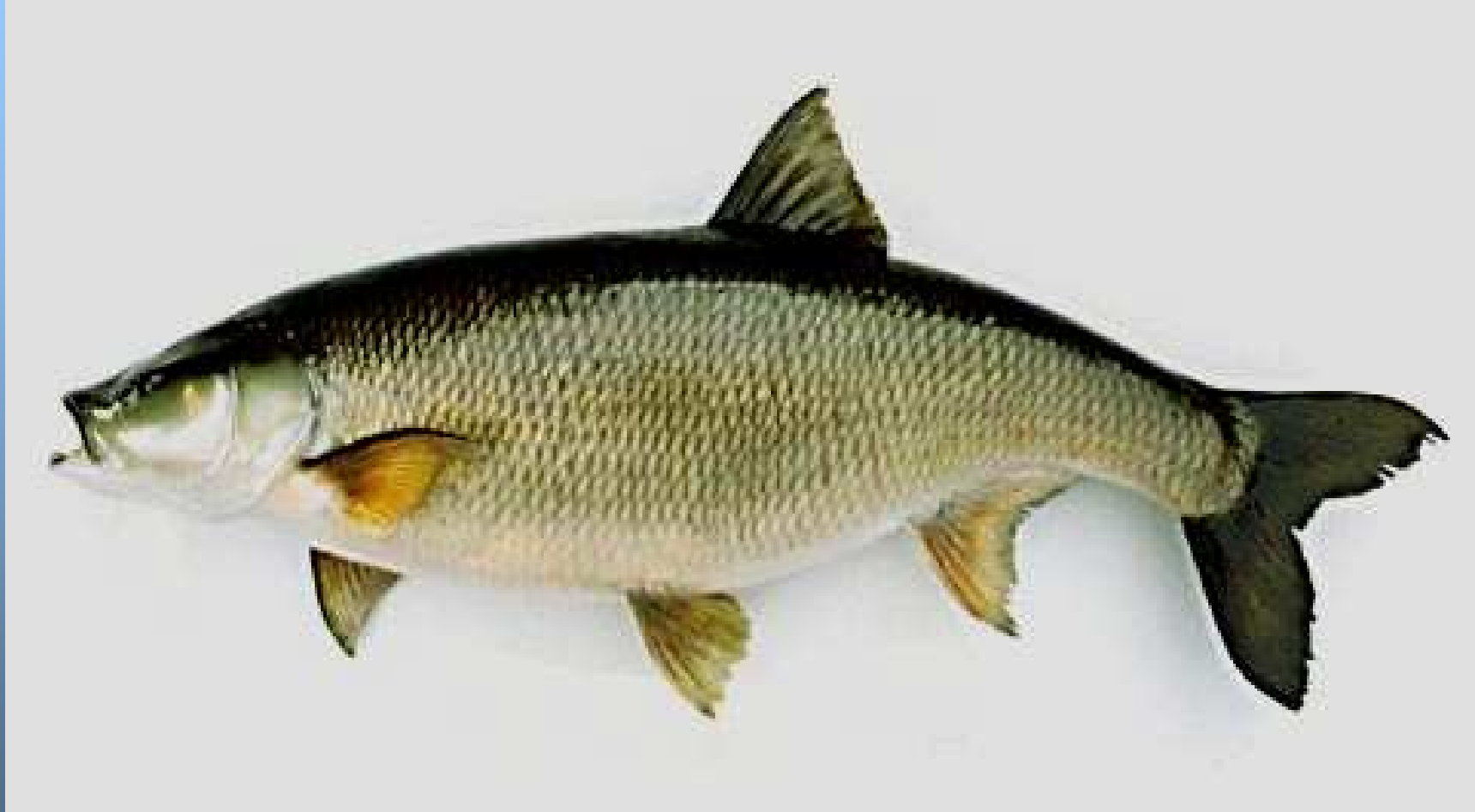


< 80 cm, 8 kg  
(LL 64 – 76)

*Aspius aspius* (boleň dravý)

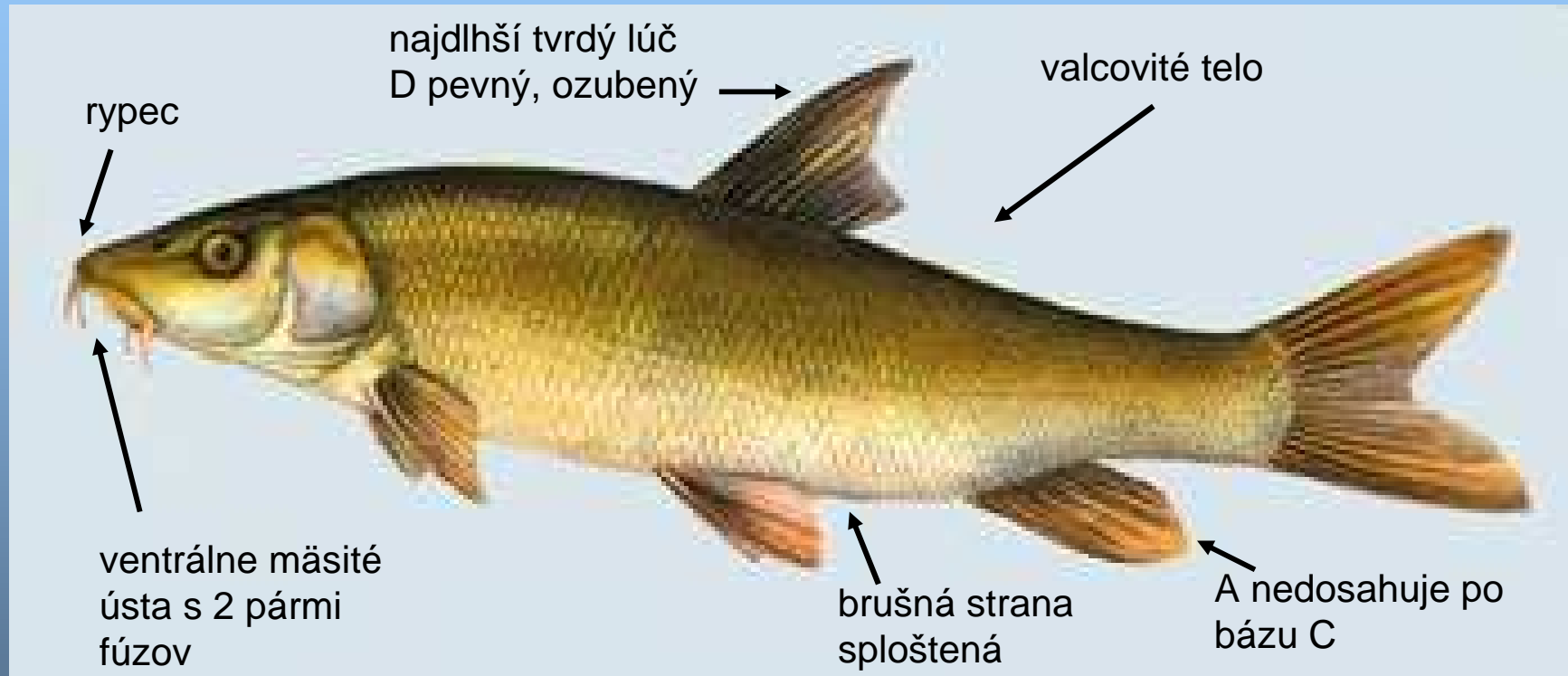


*Aspius aspius* (boleň dravý)





## *Barbus barbus* (mrena severná)



< 80 cm, 5 kg  
(LL 58 – 62)

*Barbus barbus* (mrena severná)



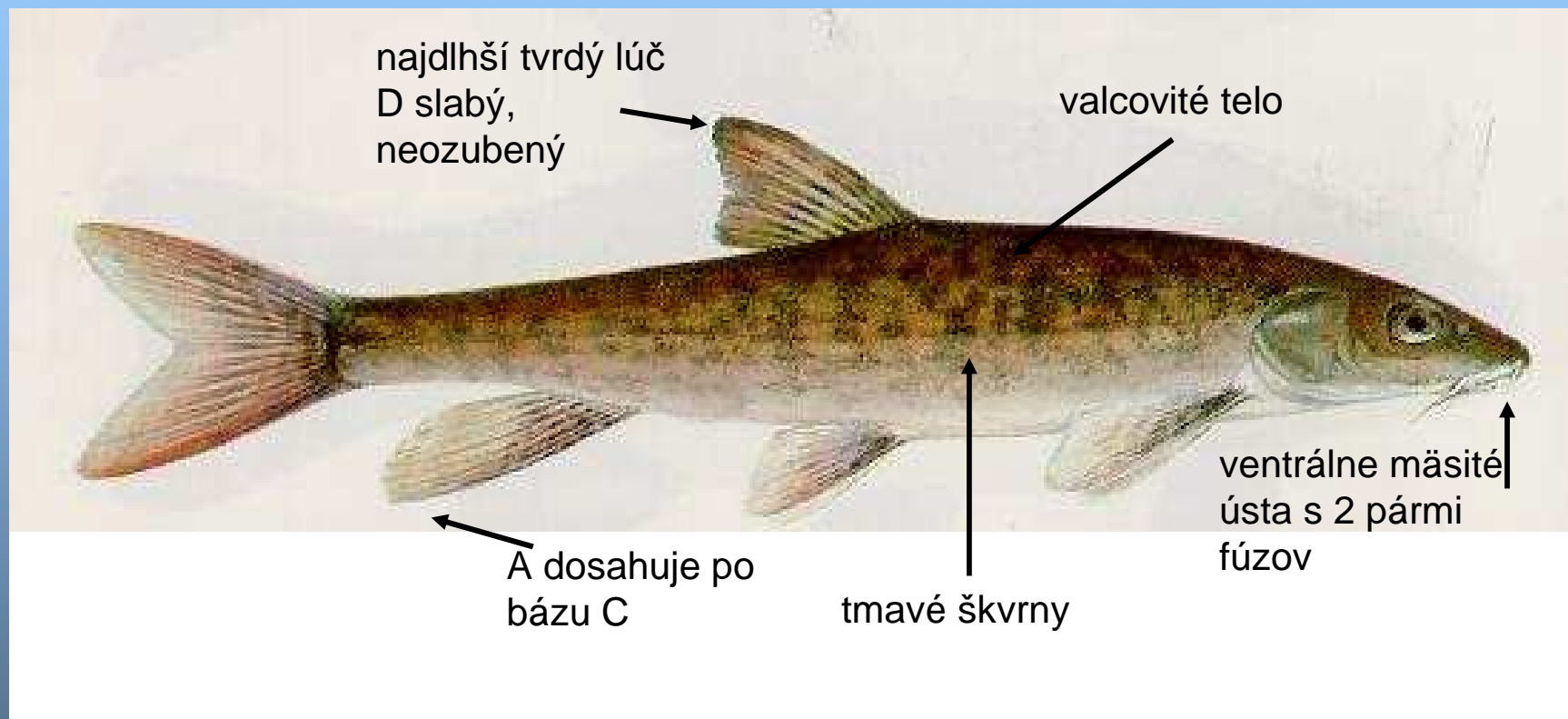
*Barbus barbus* (mrena severná)



*Barbus barbus* (mrena severná)

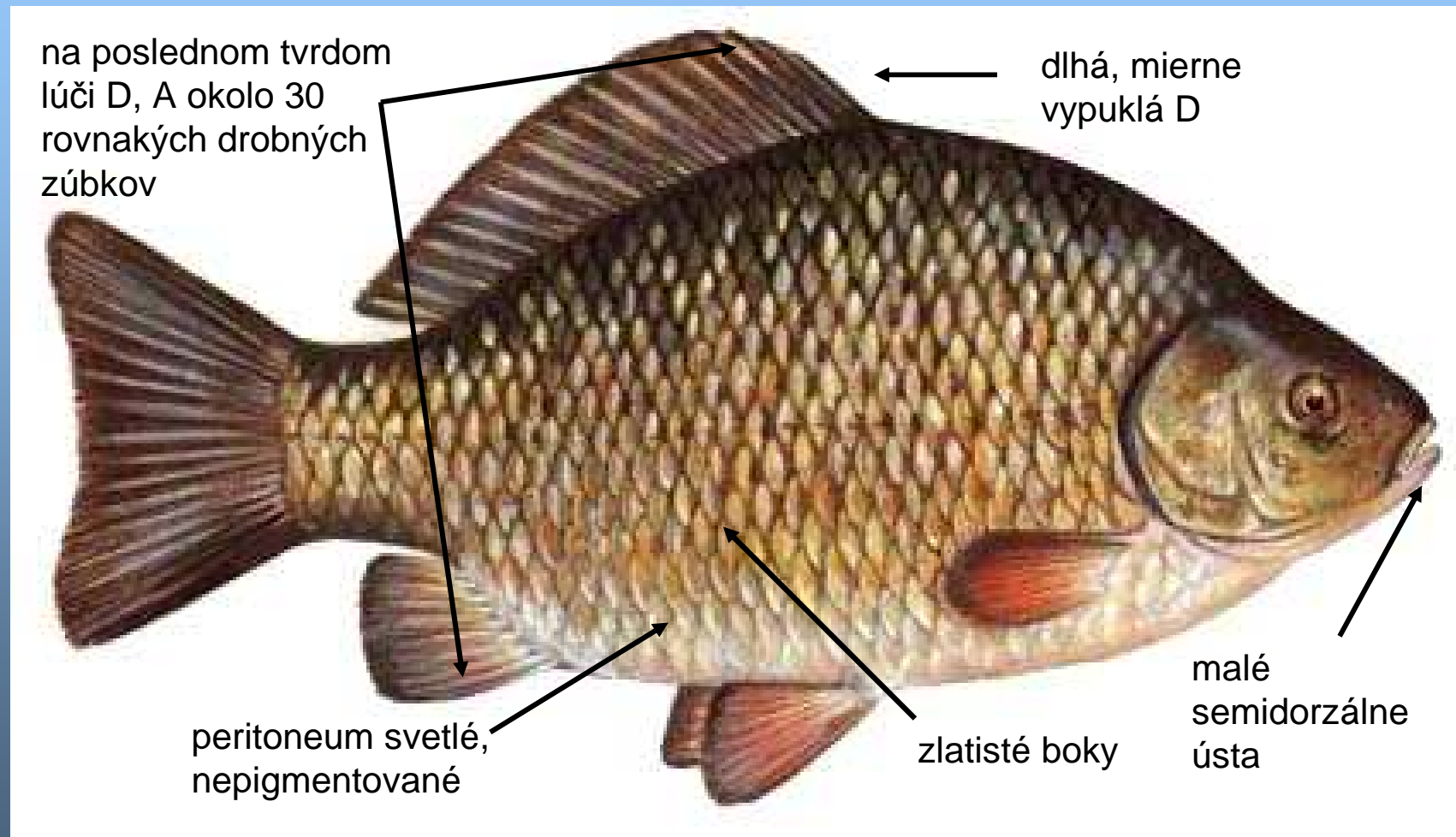


*Barbus meridionalis* (mrena stredomorská)



< ?? cm, ? kg  
(LL 52 – 57)

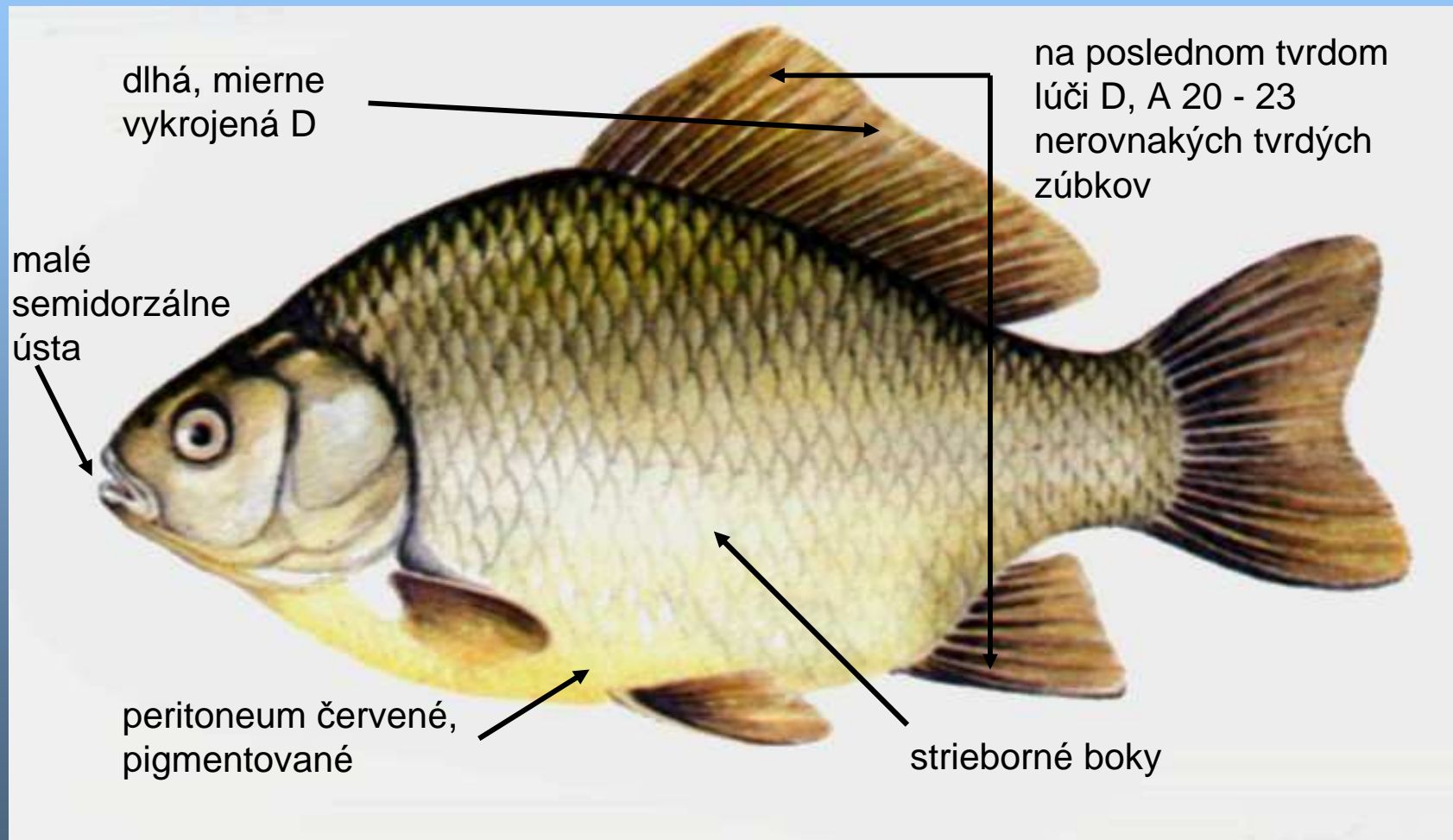
## *Carassius carassius* (karas zlatistý)



< 40 cm, 1.5 kg  
(LL 30 – 37)



## *Carassius auratus* (karas striebristý)



< 50 cm, 2 kg  
(LL 28 – 32)

*Carassius auratus* (karas stiebristý)



*Carassius auratus* (karas stiebristý)



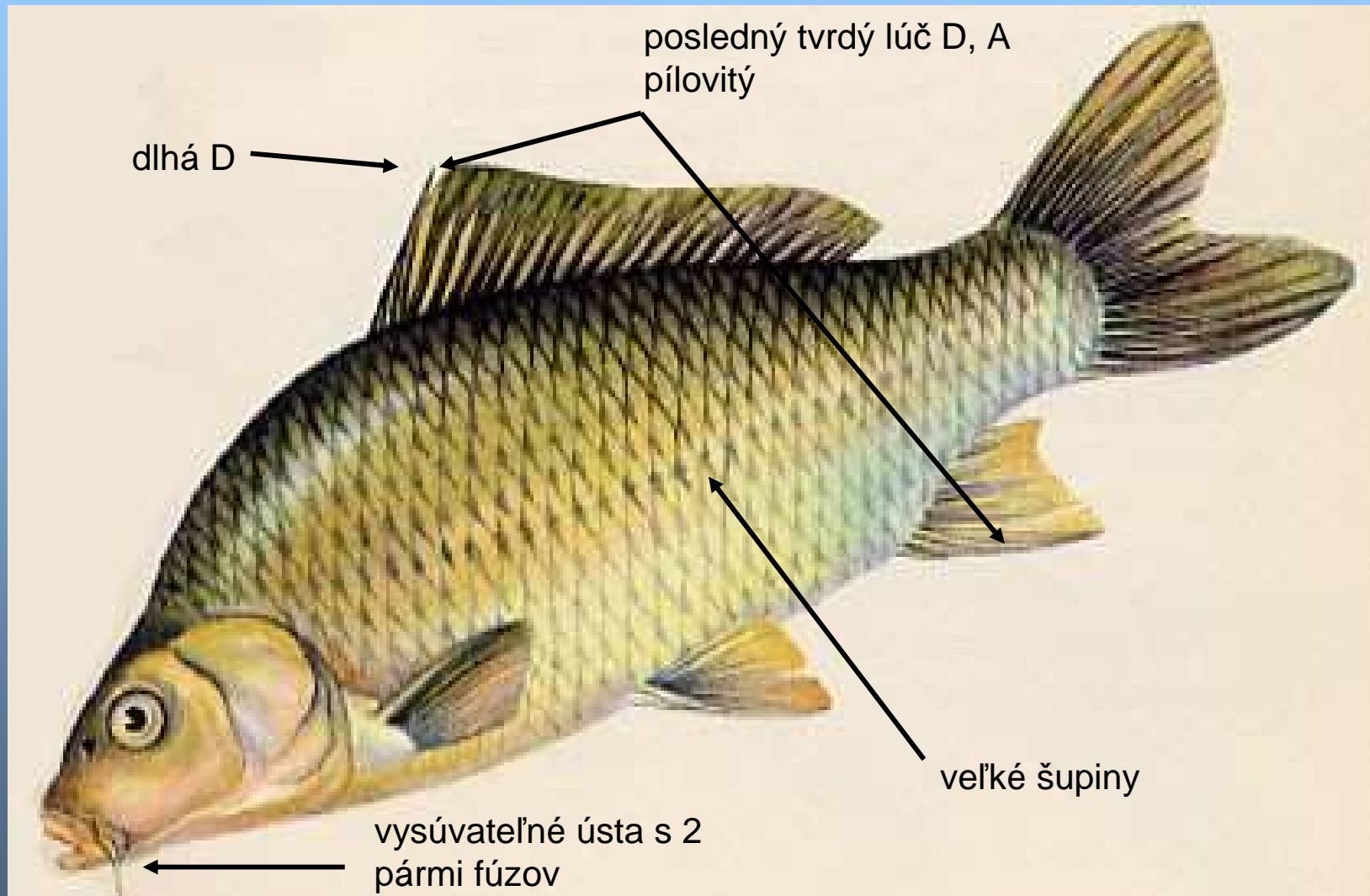
*Carassius auratus* (karas stiebristý)



*Carassius auratus* (karas stiebristý)



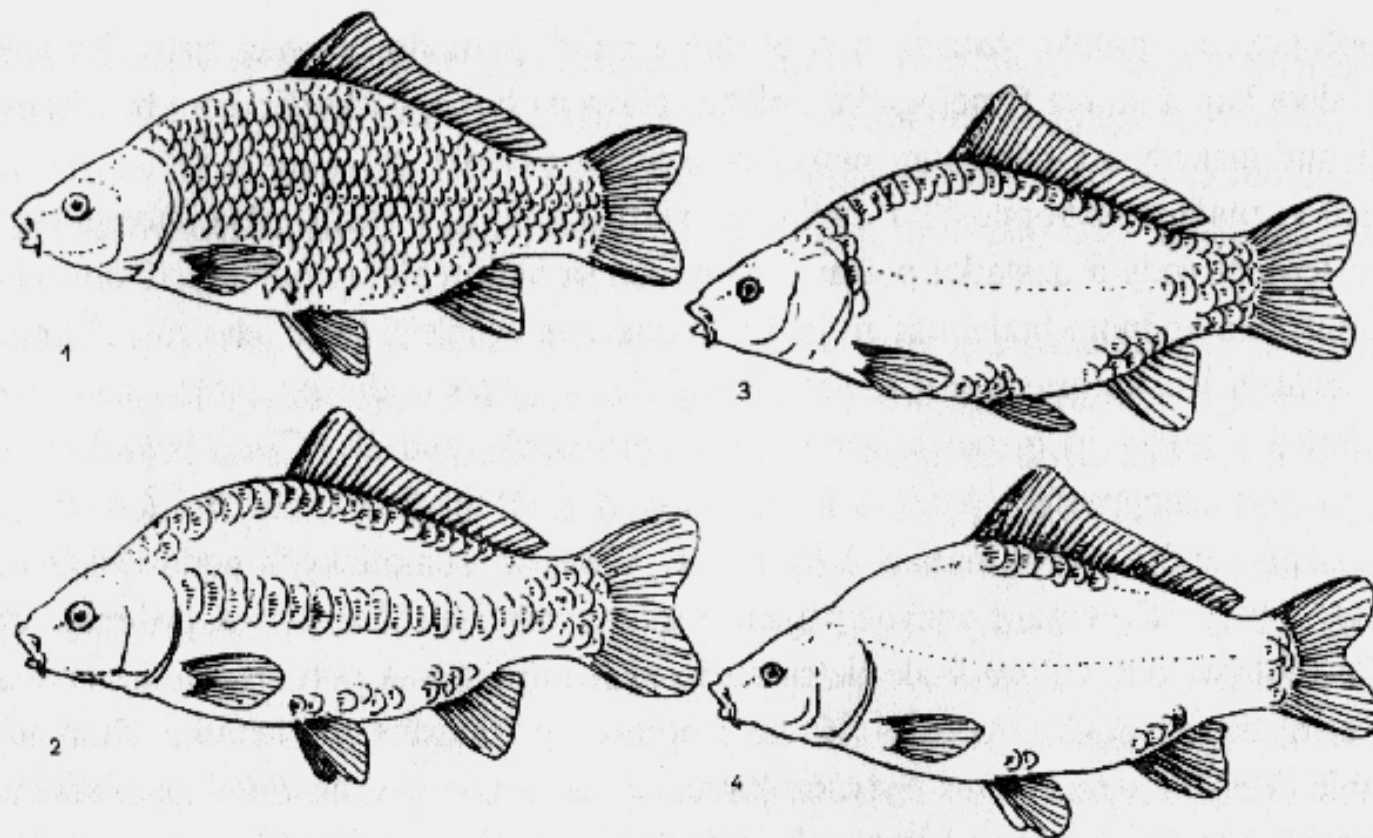
## *Cyprinus carpio* (kapor obyčejný)



< 100 cm, 30 kg  
(LL 32 – 41)



## *Cyprinus carpio* (kapor obyčejný)



Obr. 22. Základné typy vyšľachteného kapra (*Cyprinus carpio*): 1 - šupinatý, 2 - riadkový, 3 - lysý, 4 - hladký

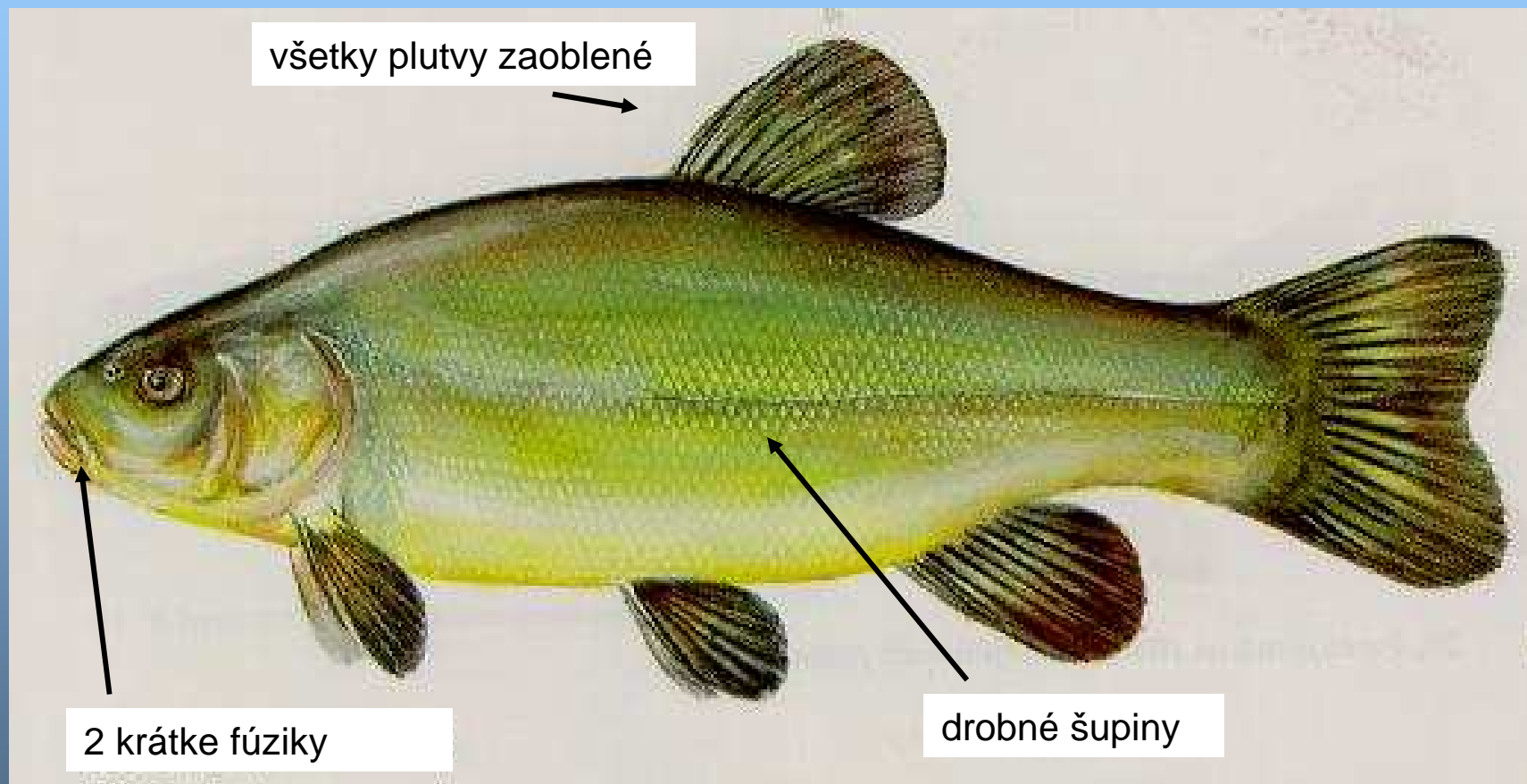
*Cyprinus carpio* (kapor obyčejný)



*Cyprinus carpio* (kapor obyčejný)



*Tinca tinca* (lieň sliznatý)



< 35 cm, 1 kg

*Tinca tinca* (lieň sliznatý)



*Perca fluviatilis* (ostriež zelenkavý)

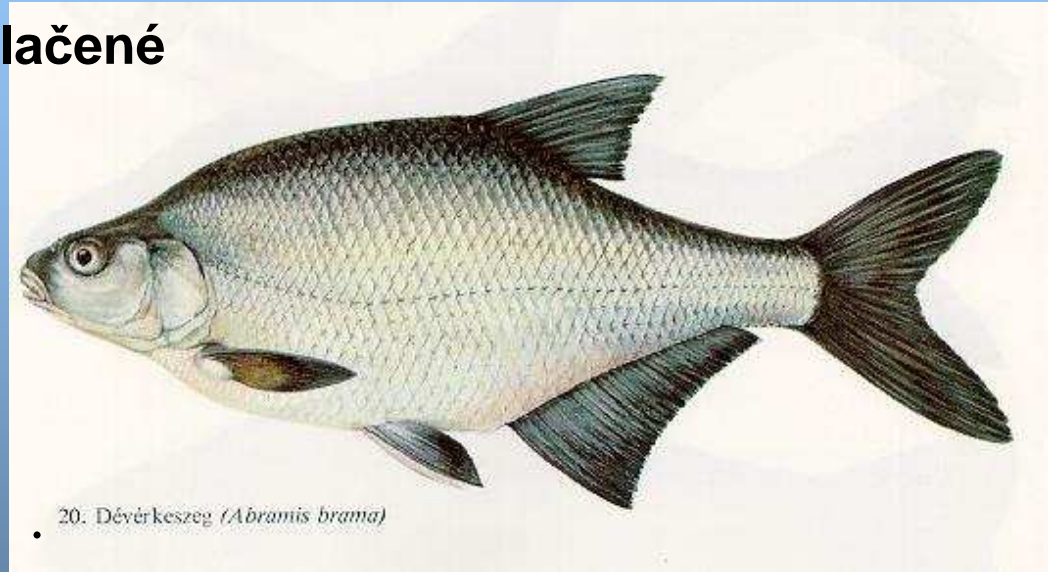


*Tinca tinca* (lieň sliznatý)

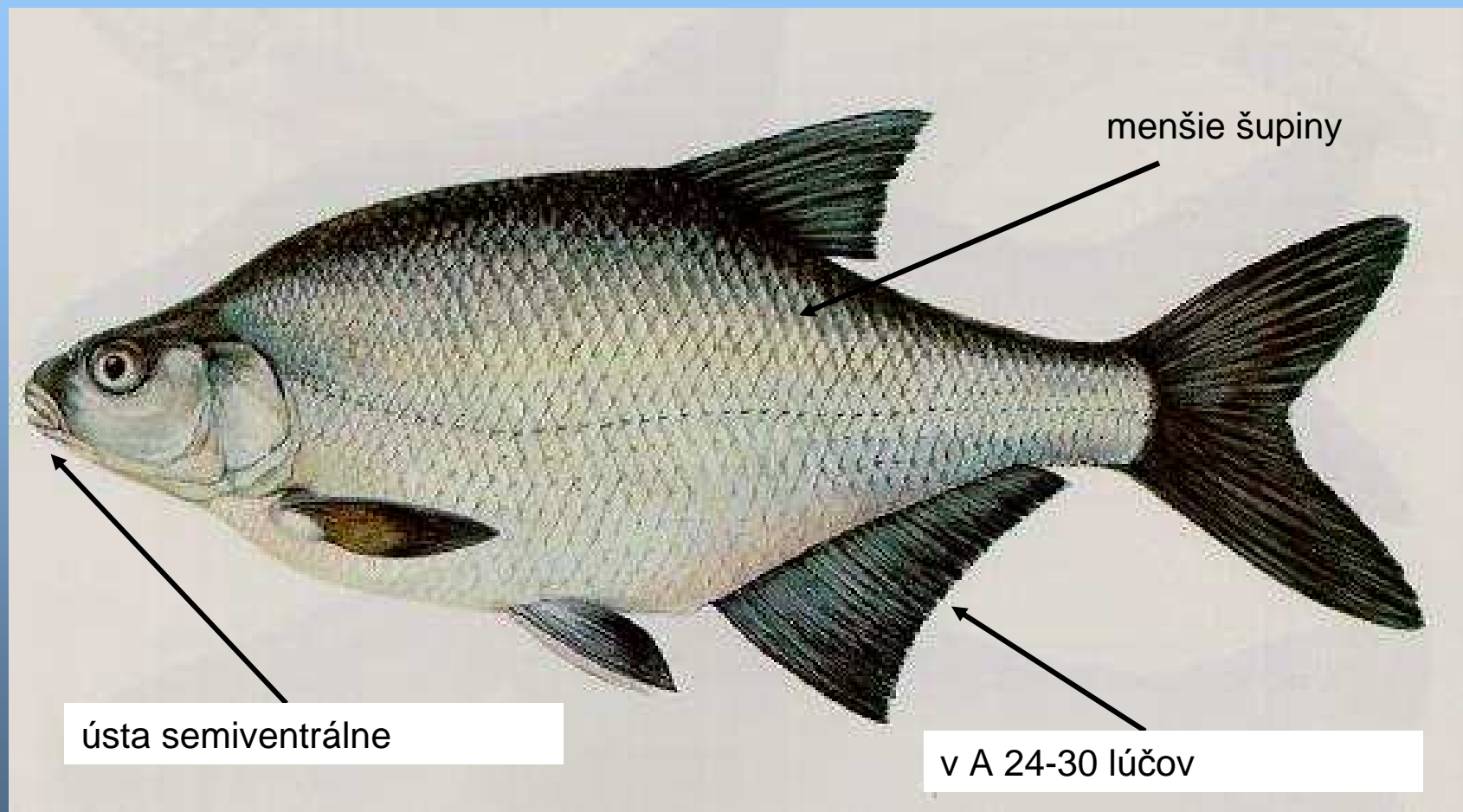


## *Abramis* (pleskáč)

- telo vysoké, zo strán stlačené
- dlhá A
- ústa bez fúzov
- 4 druhy:
  - *A. brama* (p. vysoký)
  - *A. sapa* (p. tuponosý)
  - *A. ballerus* (p. siný)
  - *A. bjorkna* (p. malý)



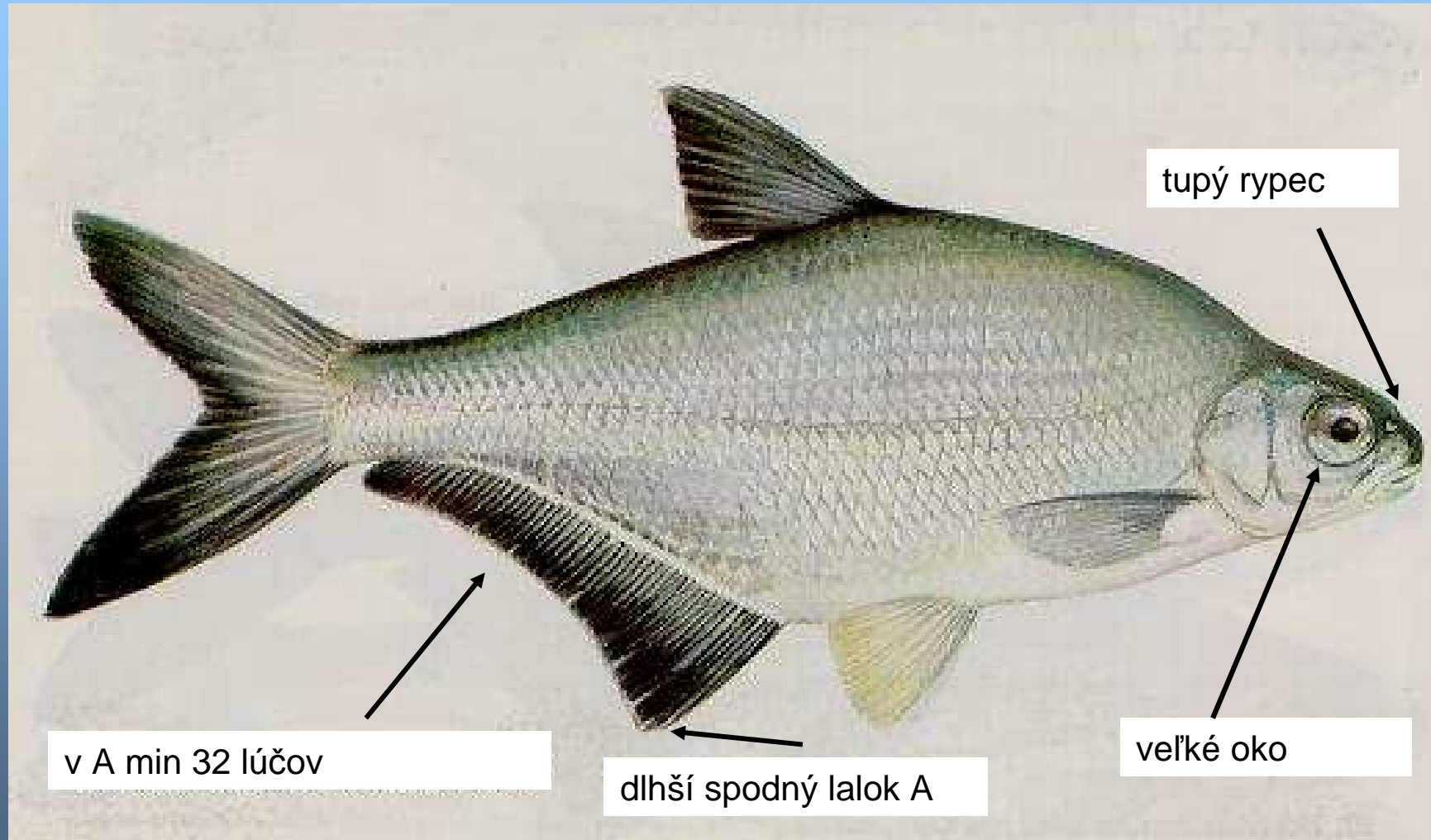
*Abramis brama* (pleskáč vysoký)



< 50 cm, 2 kg

II 50-55

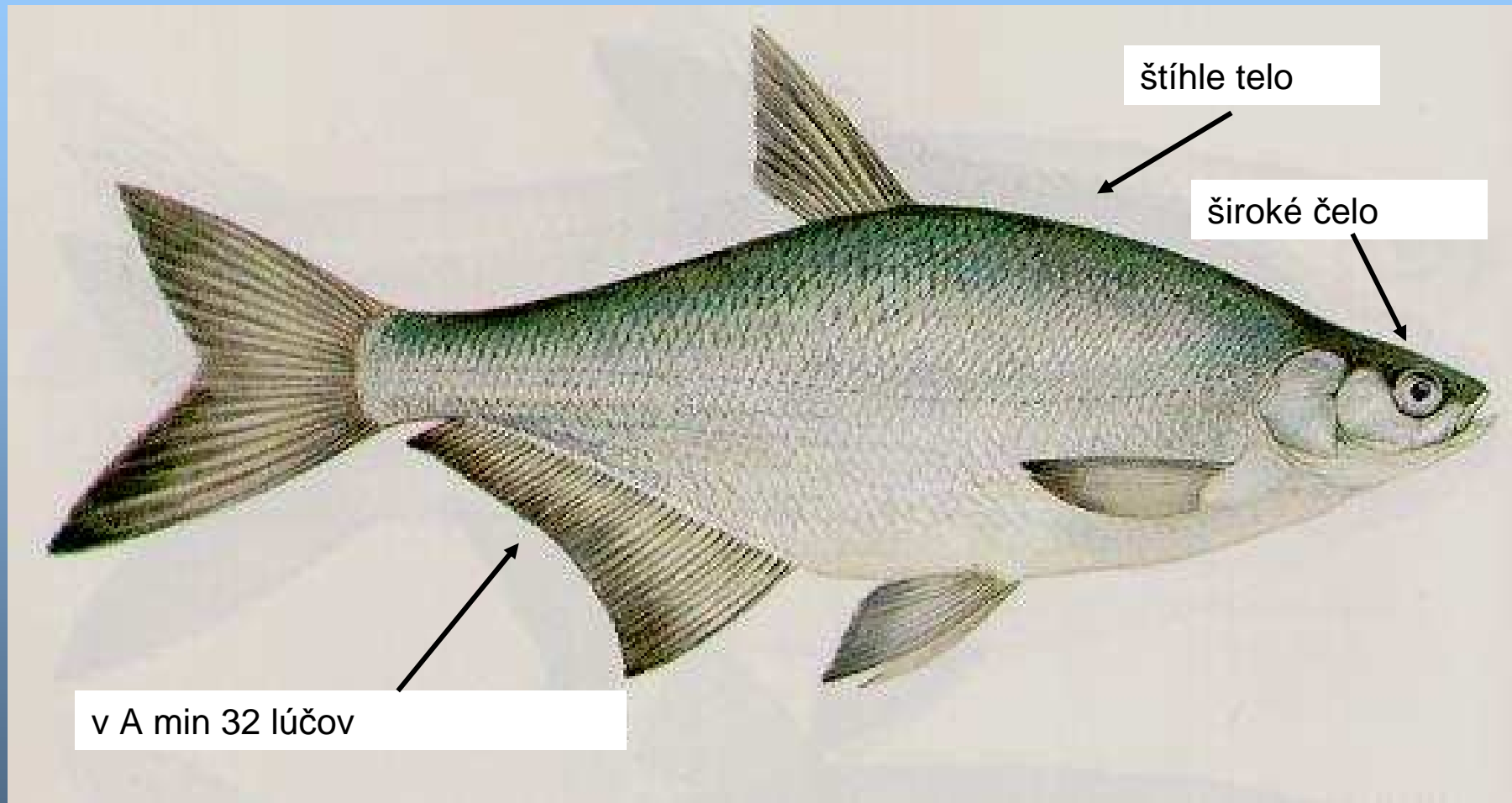
*Abramis sapa* (pleskáč tuponosý)



< 30 cm, 0,4 kg

II 47-55

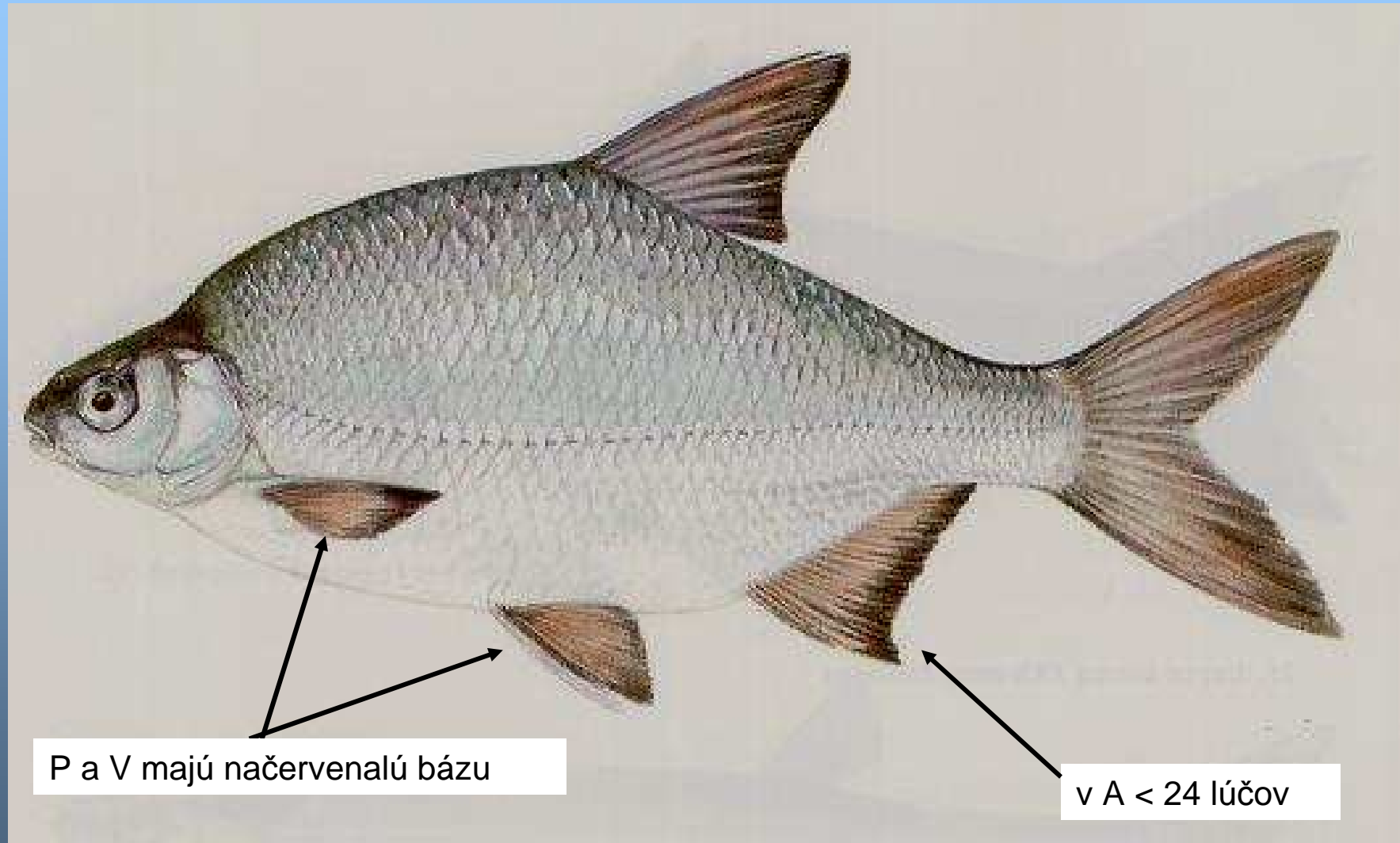
*Abramis ballerus* (pleskáč siný)



< 25 cm, 0,3 kg

ll 62-77

*Abramis/Blicca bjorkna* (pleskáč malý)



P a V majú načervenalú bázu

v A < 24 lúčov

< 30 cm, 0,5 kg

LL 44-50

*Abramis brama* (pleskáč vysoký)





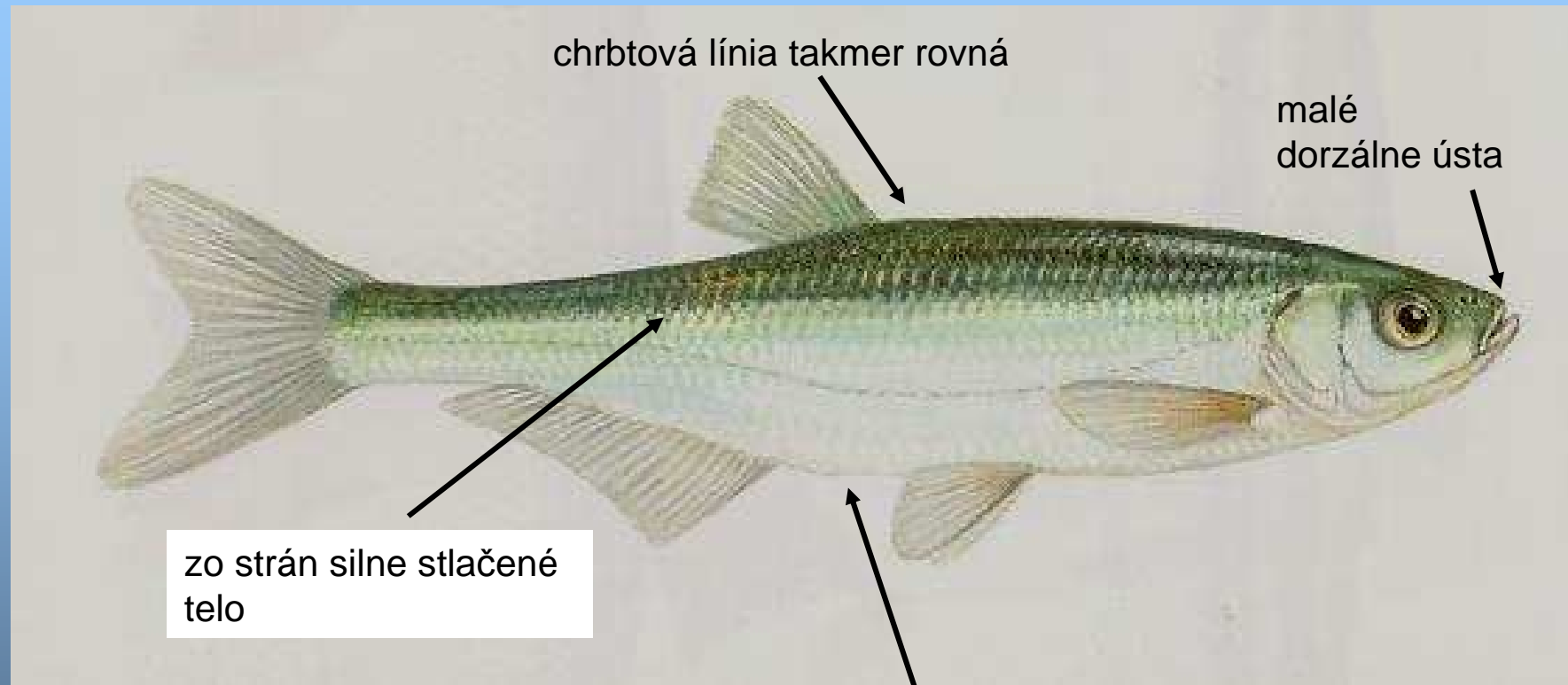
*Abramis ballerus* (pleskáč siný)



*Abramis bjorkna* (pleskáč malý)



*Alburnus alburnus* (belička európska)



chrbtová línia takmer rovná

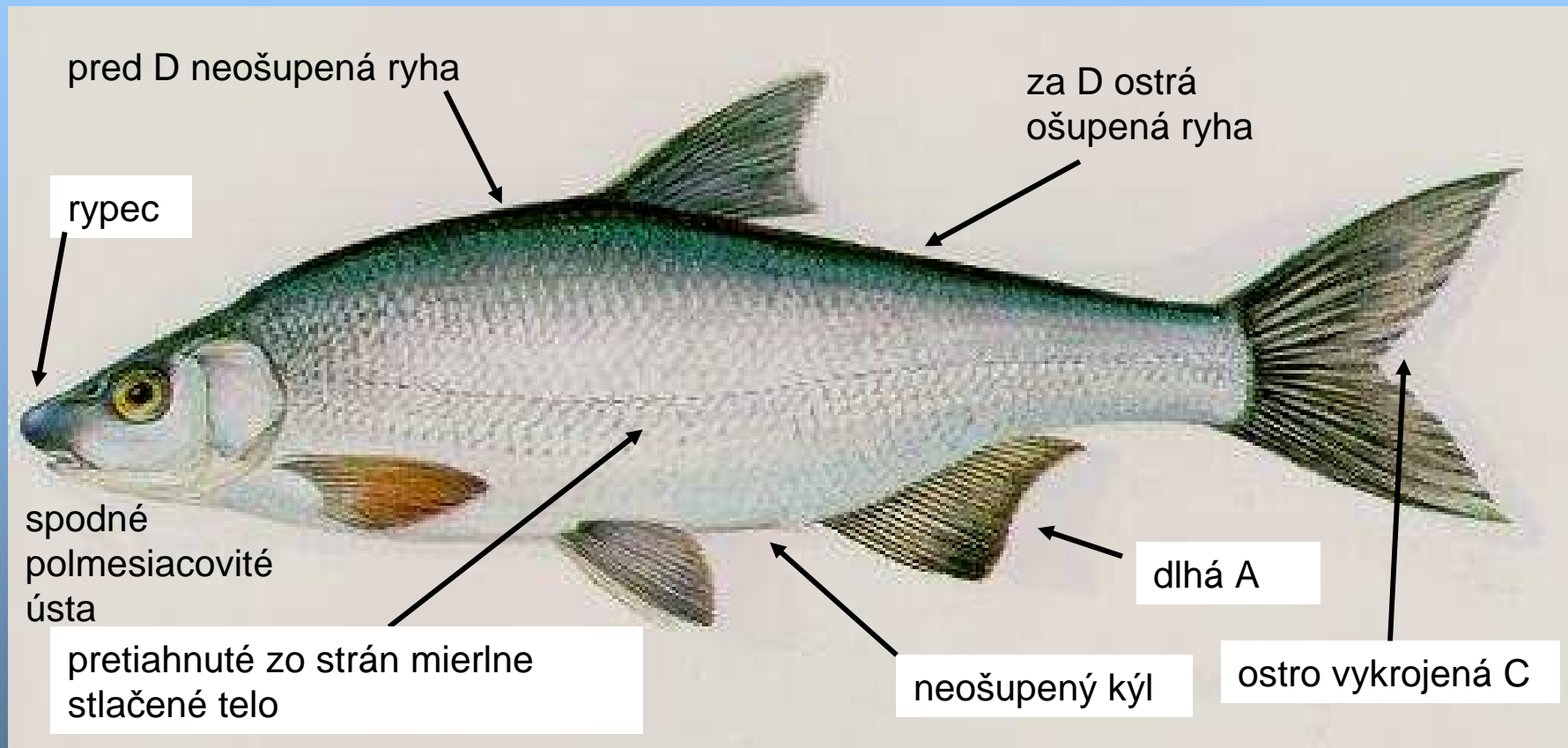
malé  
dorzálne ústa

zo strán silne stlačené  
telo

neošupený kýl

< 15 cm, 0,1 kg

## *Vimba vimba* (nosál' sťahovavý)

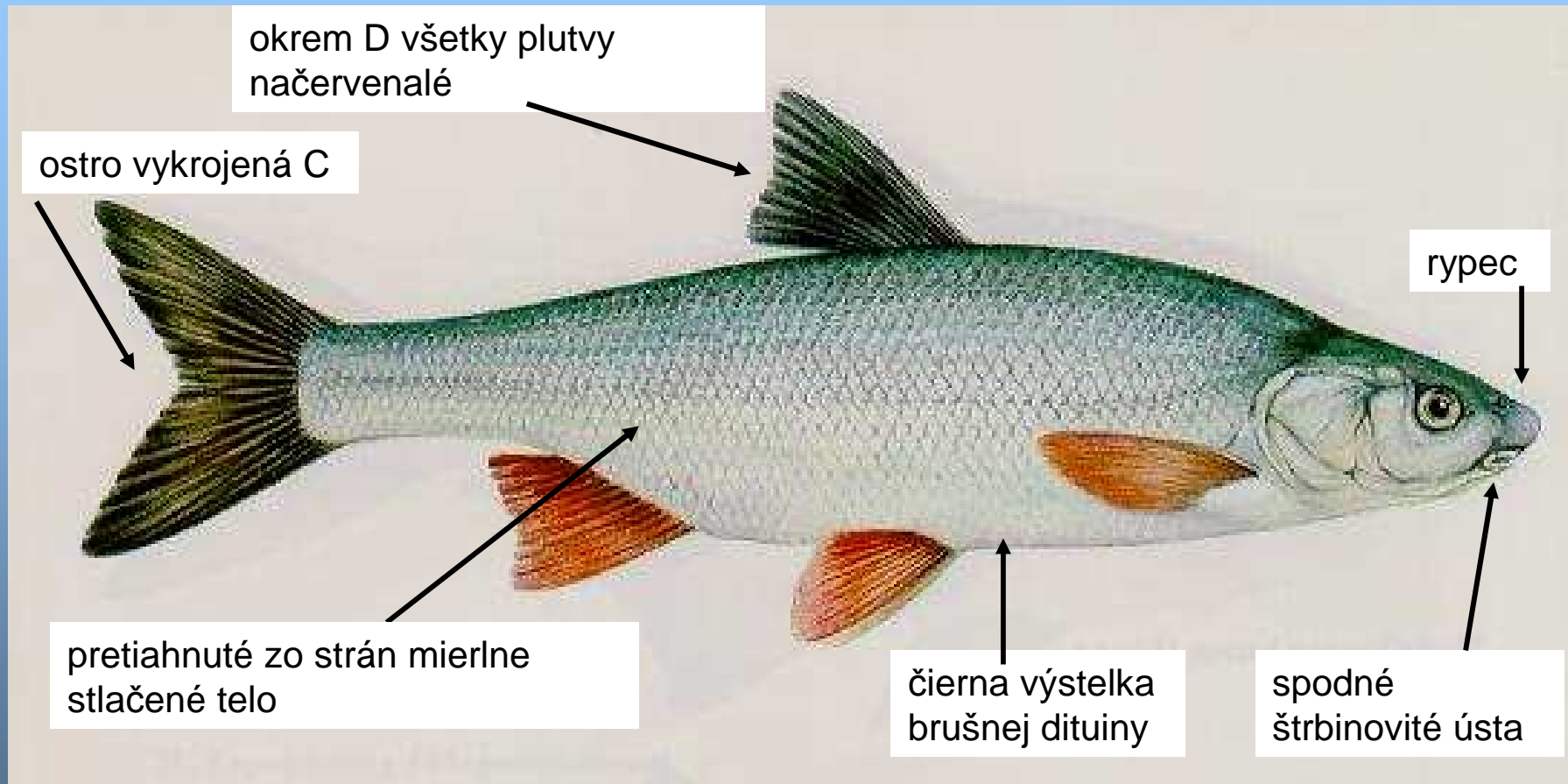


< 40 cm, 1,5 kg

*Vimba vimba* (nosál sťahovavý)



## *Chondrostoma nasus* (podustva severná)



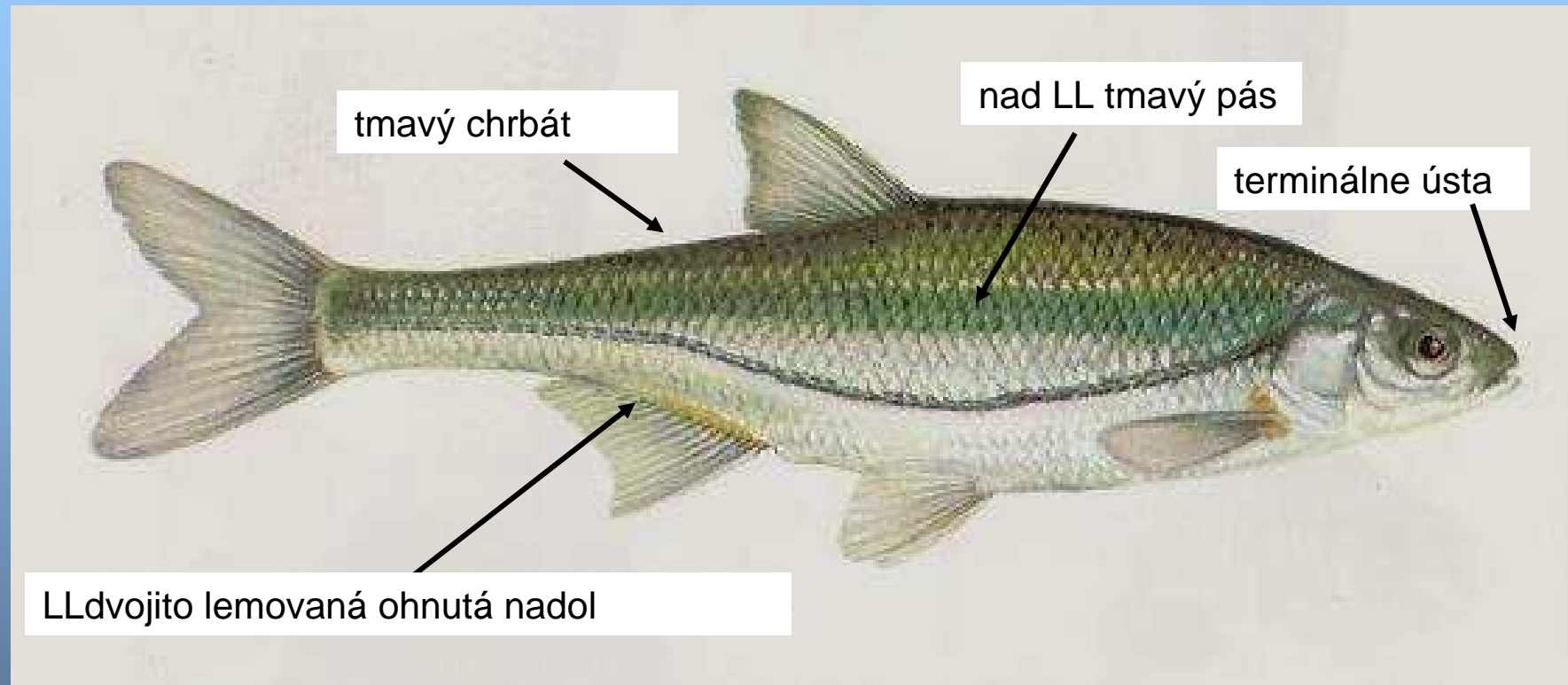
< 40 cm, 1,5 kg





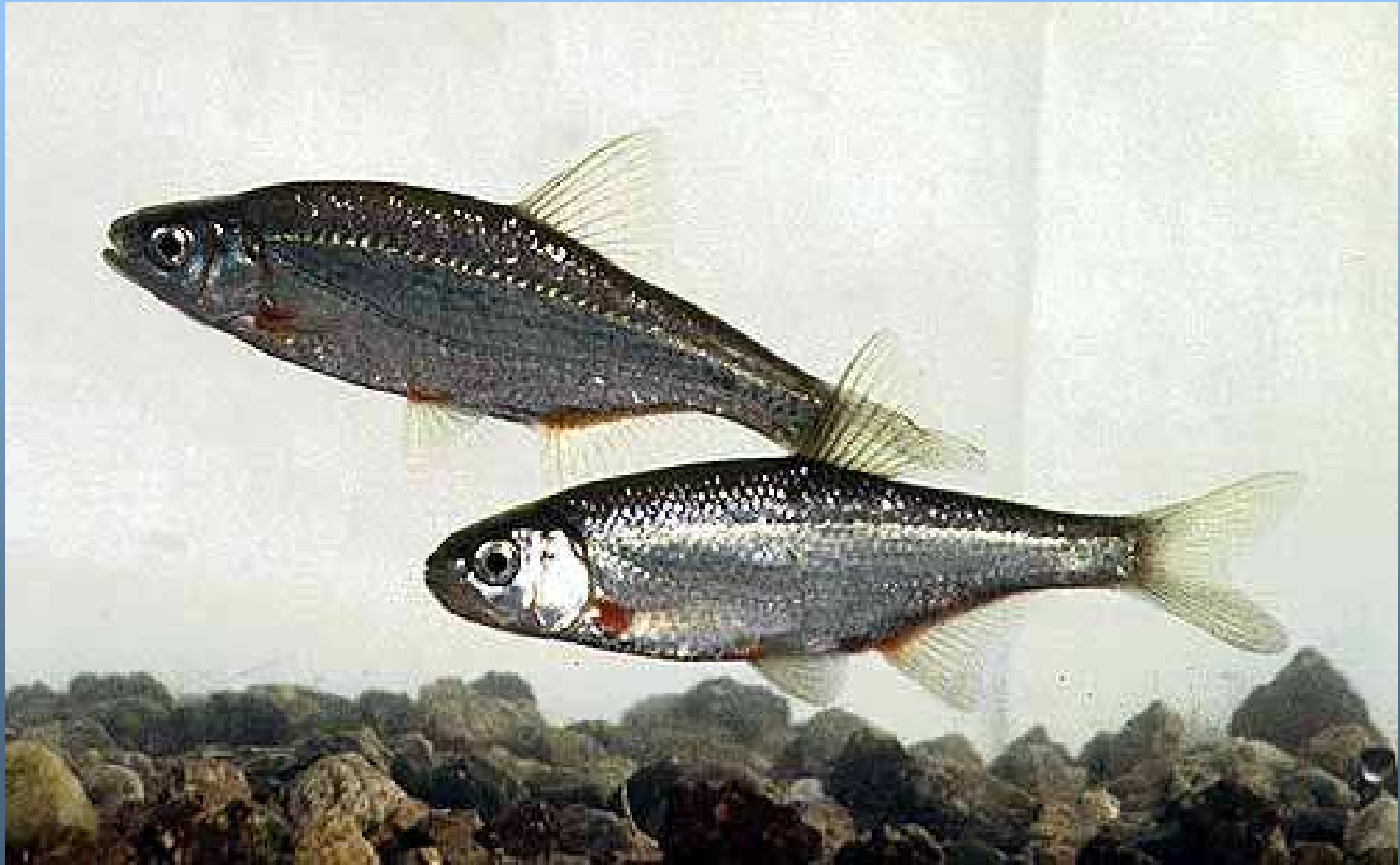
*Chondrostoma nasus*  
(podustva severná)

*Alburnoides bipunctatus* (ploska pásavá)

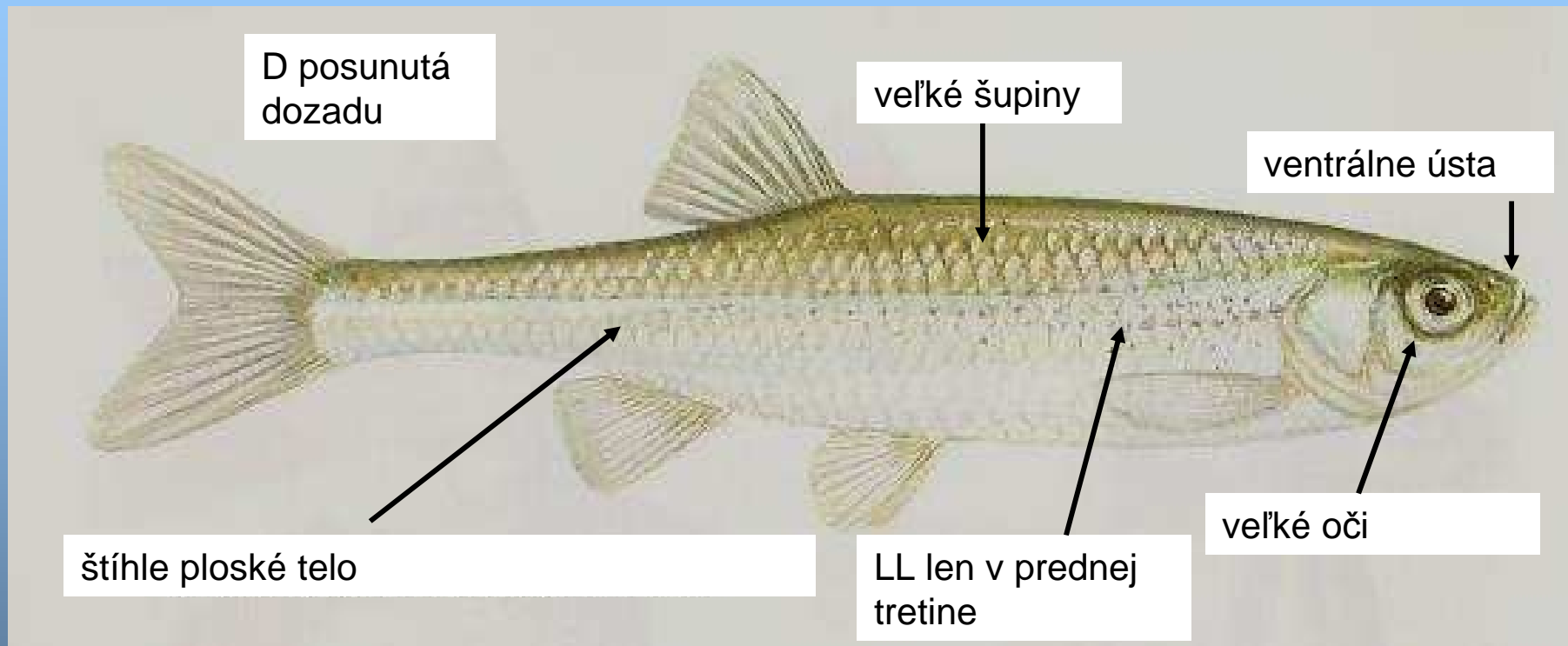


< 15 cm

*Alburnoides bipunctatus*  
(ploska pásavá)



## *Leucaspilus delineatus* (ovsienka striebristá)



< 9 cm

*Leucaspilus delineatus*  
(ovsienka striebristá)



*Leucaspius delineatus*  
(ovsienka striebristá)





*Rhodeus sericeus*  
(lopatka dúhová)

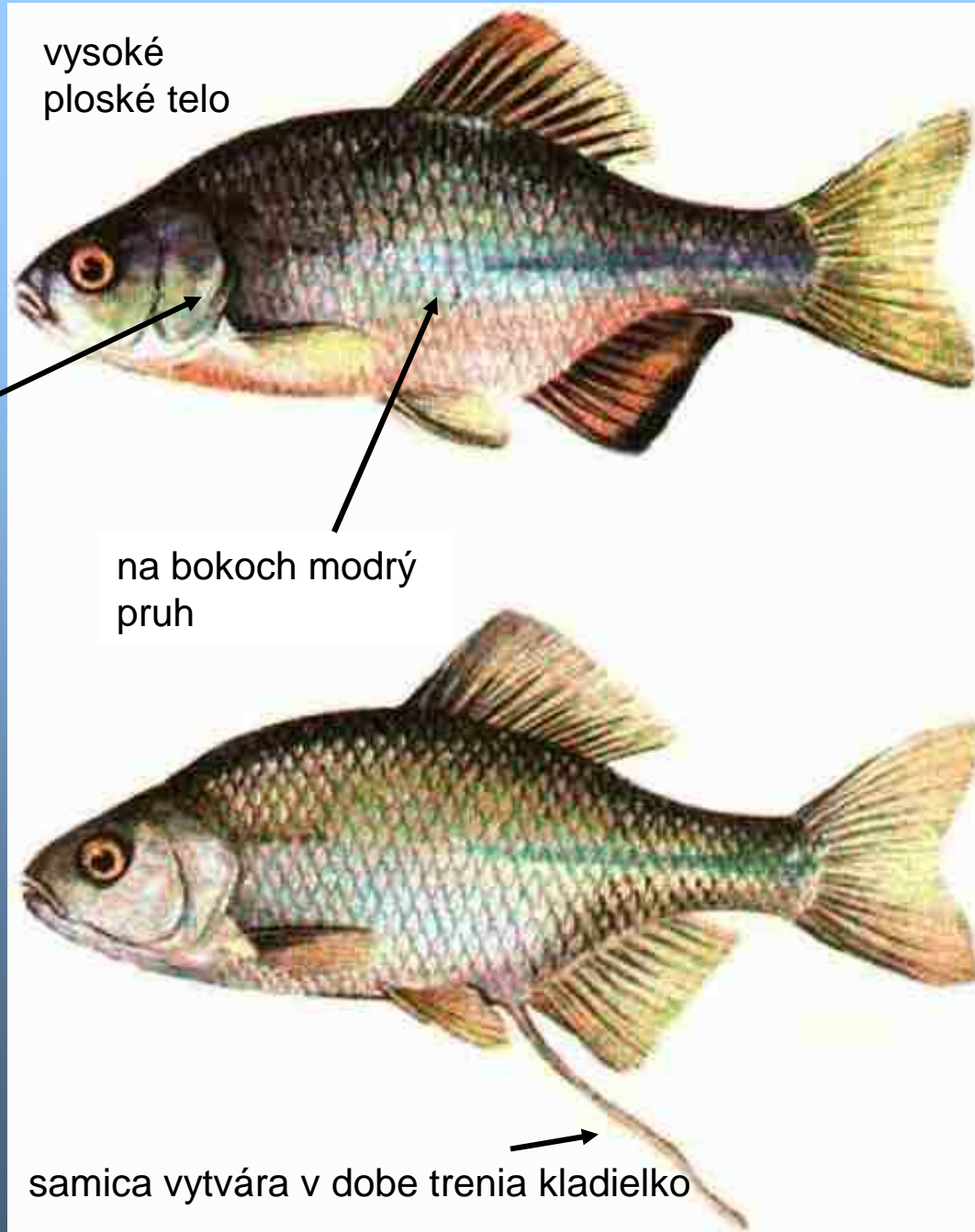
samec v dobe  
trenia pestrý  
červenofialový s  
tmavou škvrnou  
za skrelami

vysoké  
ploské telo

na bokoch modrý  
pruh

< 8 cm

samica vytvára v dobe trenia kladielko



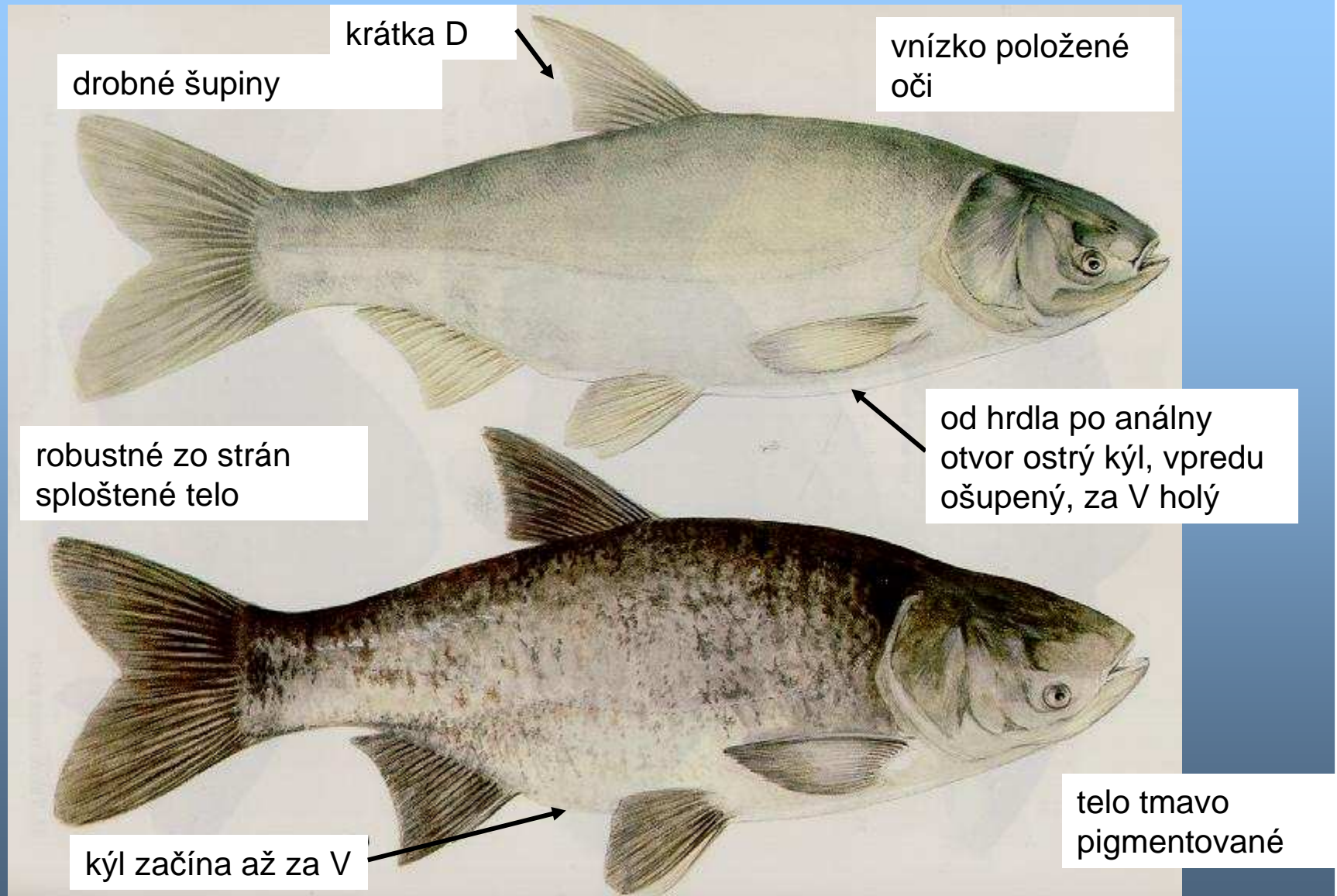
*Rhodeus sericeus* (lopatka dýchová)



*Rhodeus sericeus* (lopatka dýchová)



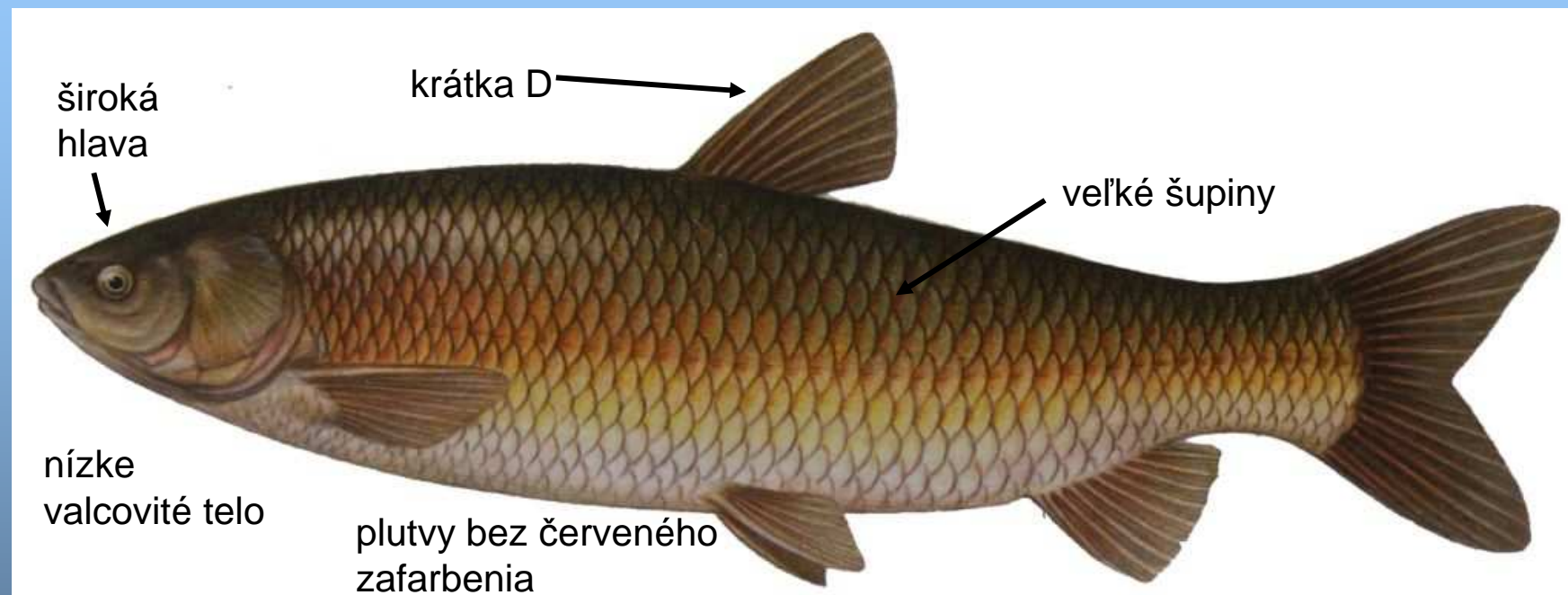
*Hypophthalmichthys molitrix* (tolstolobik biely)



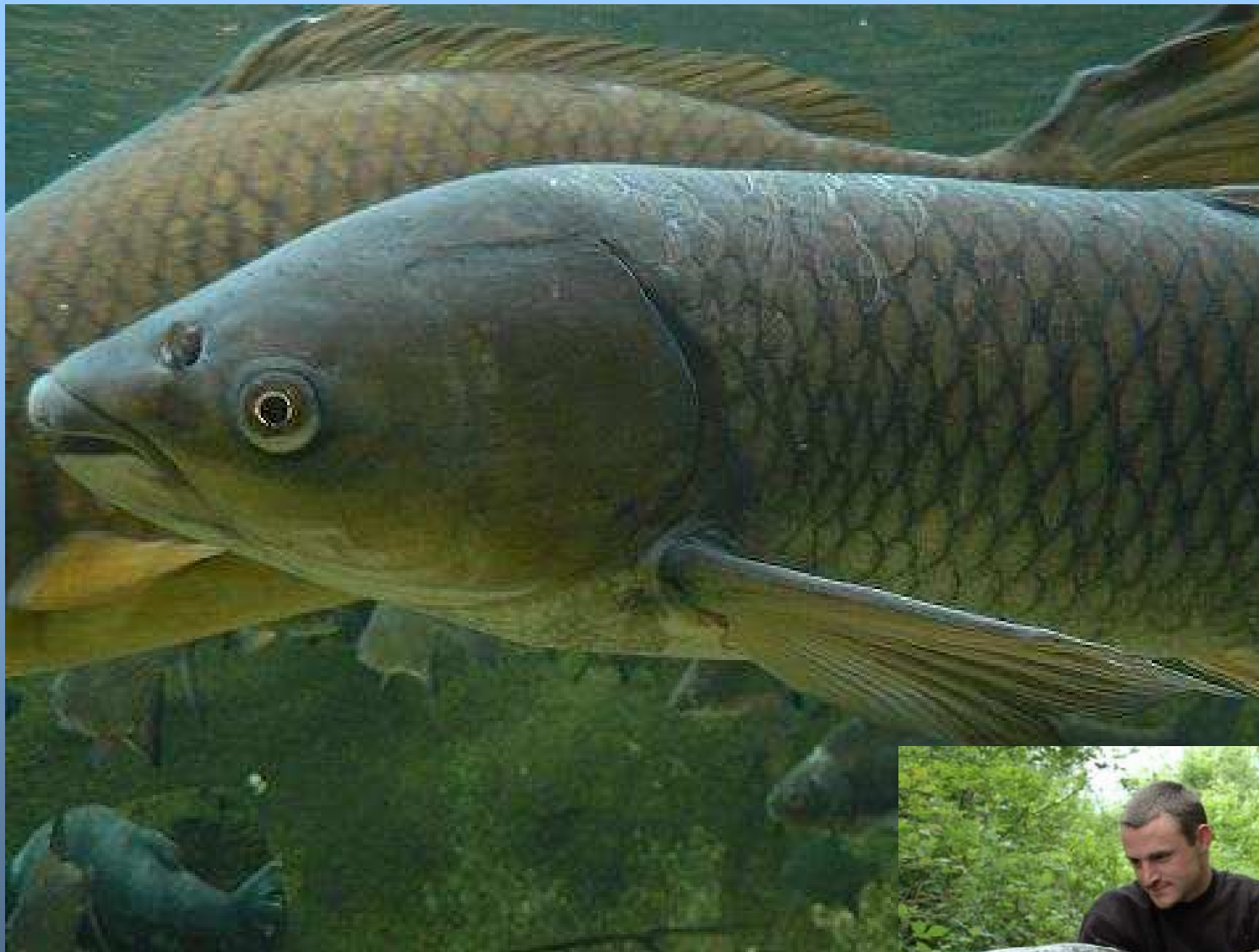
*Aristichthys nobilis* (tolstolobik pestrý)



## *Ctenopharyngodon idella* (amur biely)



**1,5 m cm, 30 kg**  
**(LL 40 – 45)**



*Ctenopharyngodon idella* (amur biely)



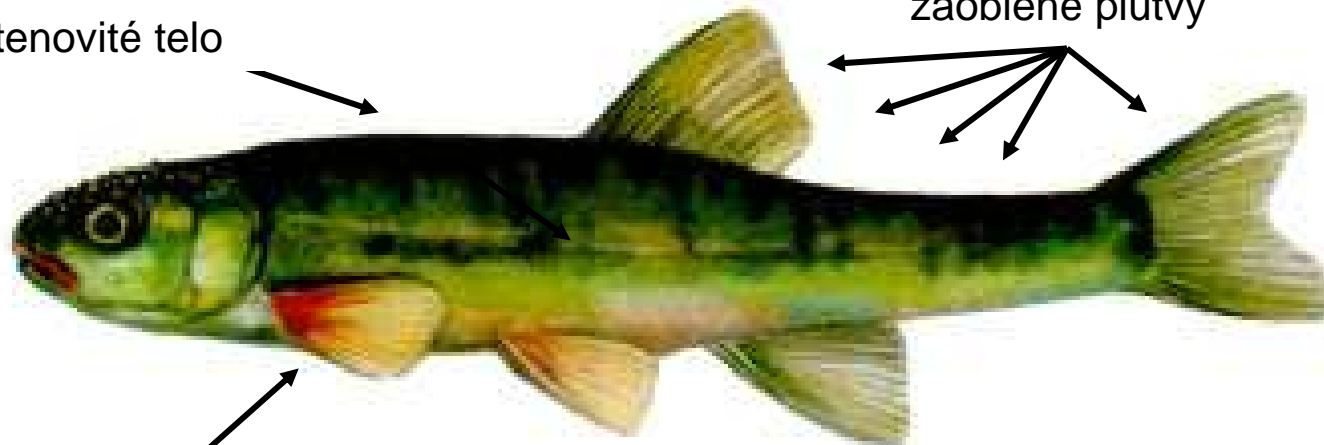




## *Phoxinus phoxinus* (čerebl'a pestrá)

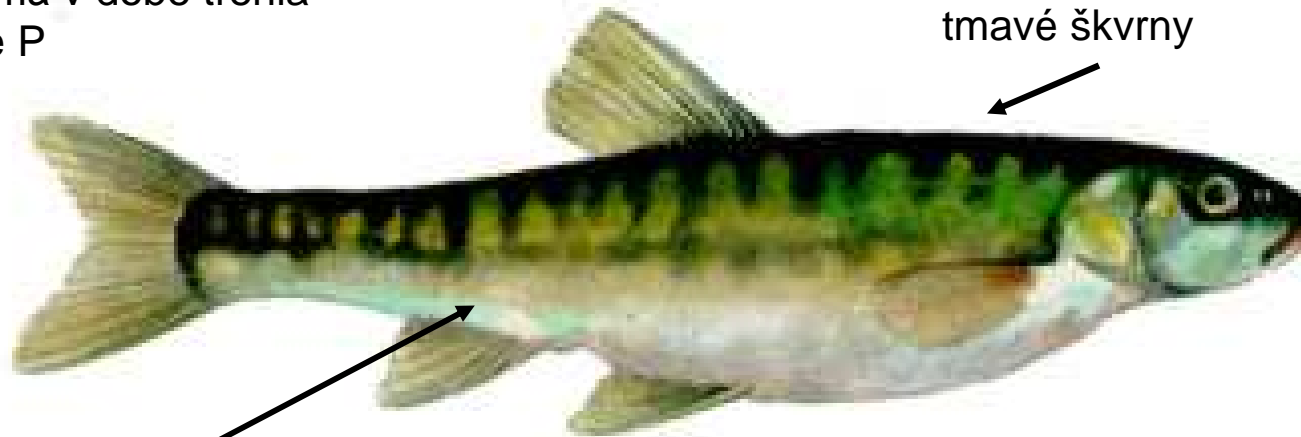
vretenovité telo

zaoblené plutvy



samec má v dobe trenia  
červené P

na chrbte a bokoch  
tmavé škvrny



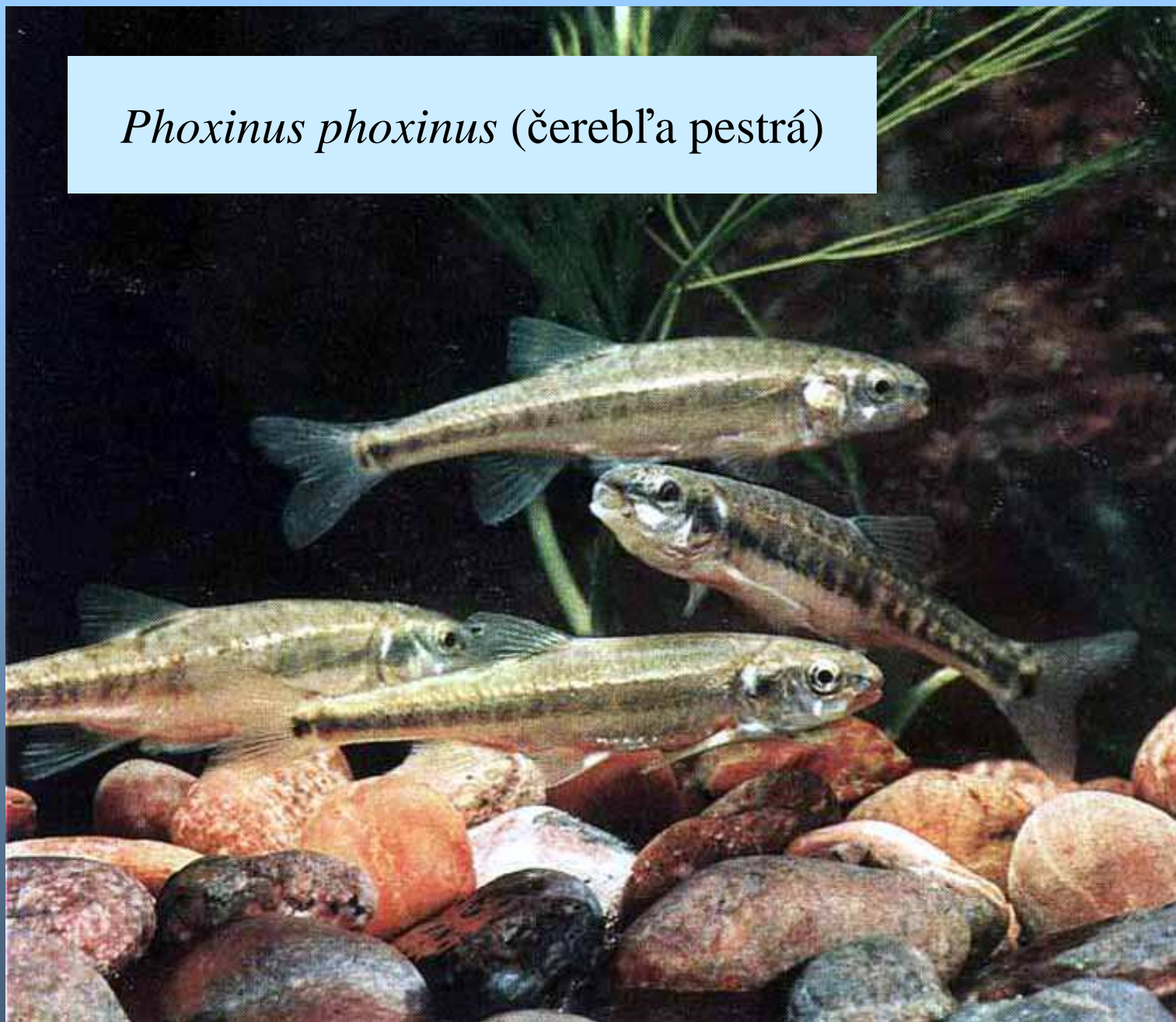
drobné šupiny

< 12 cm

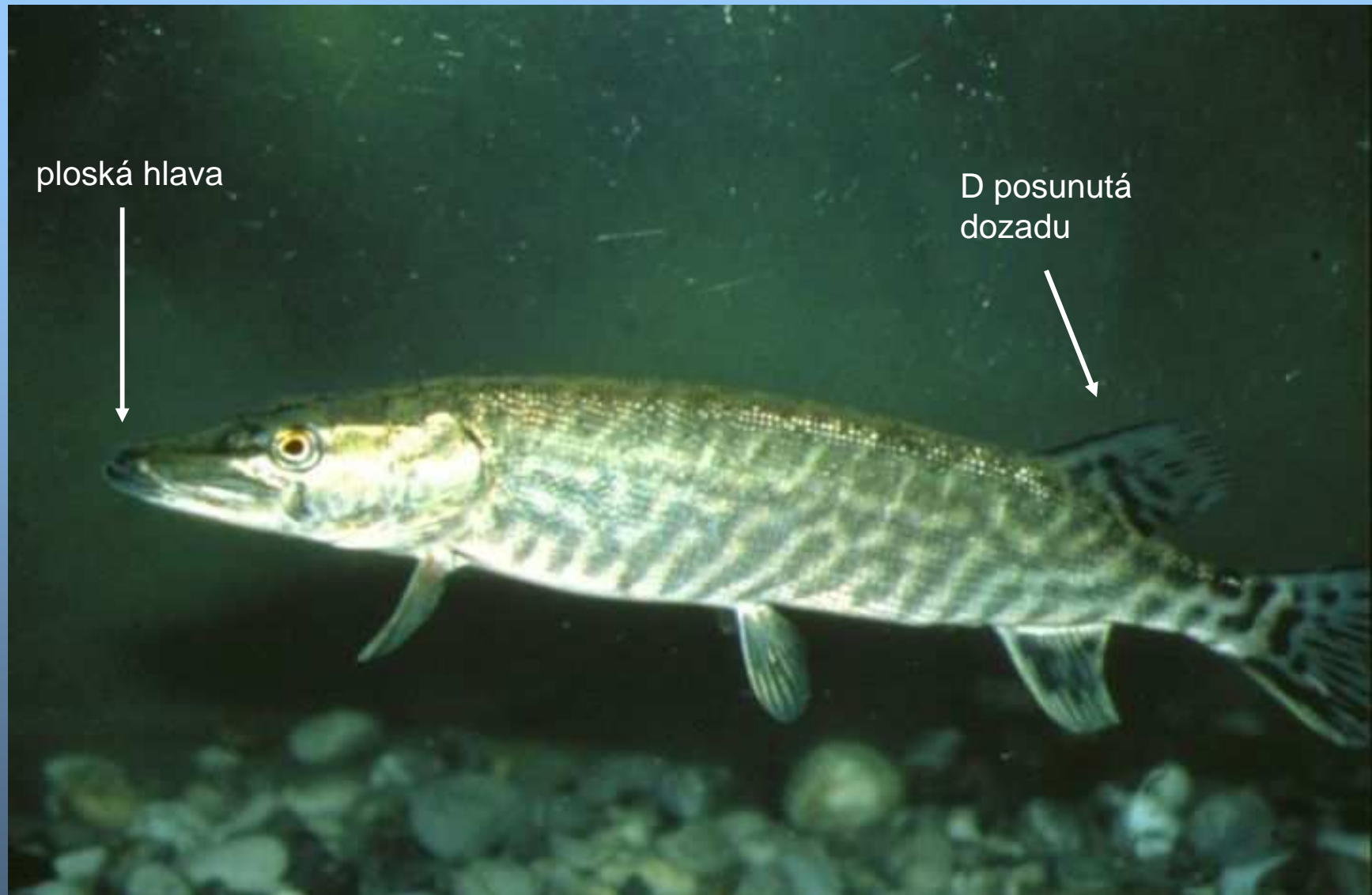
*Phoxinus phoxinus* (čerebl'a pestrá)



*Phoxinus phoxinus* (čerebl'a pestrá)



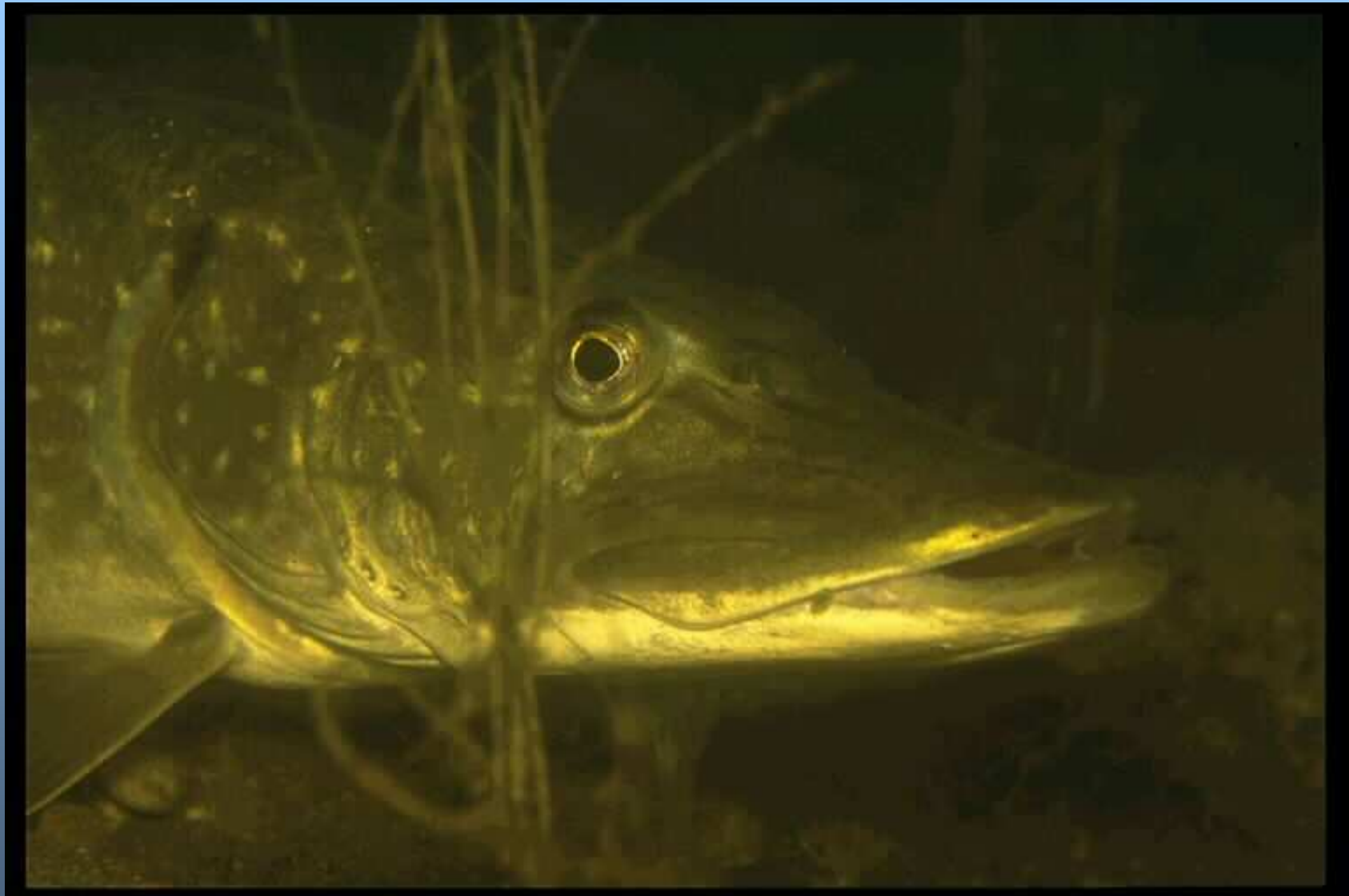
*Esox lucius* (štika severná)



< 130 cm, 30 kg  
(LL 110 – 144)



*Esox lucius* (štika severná)

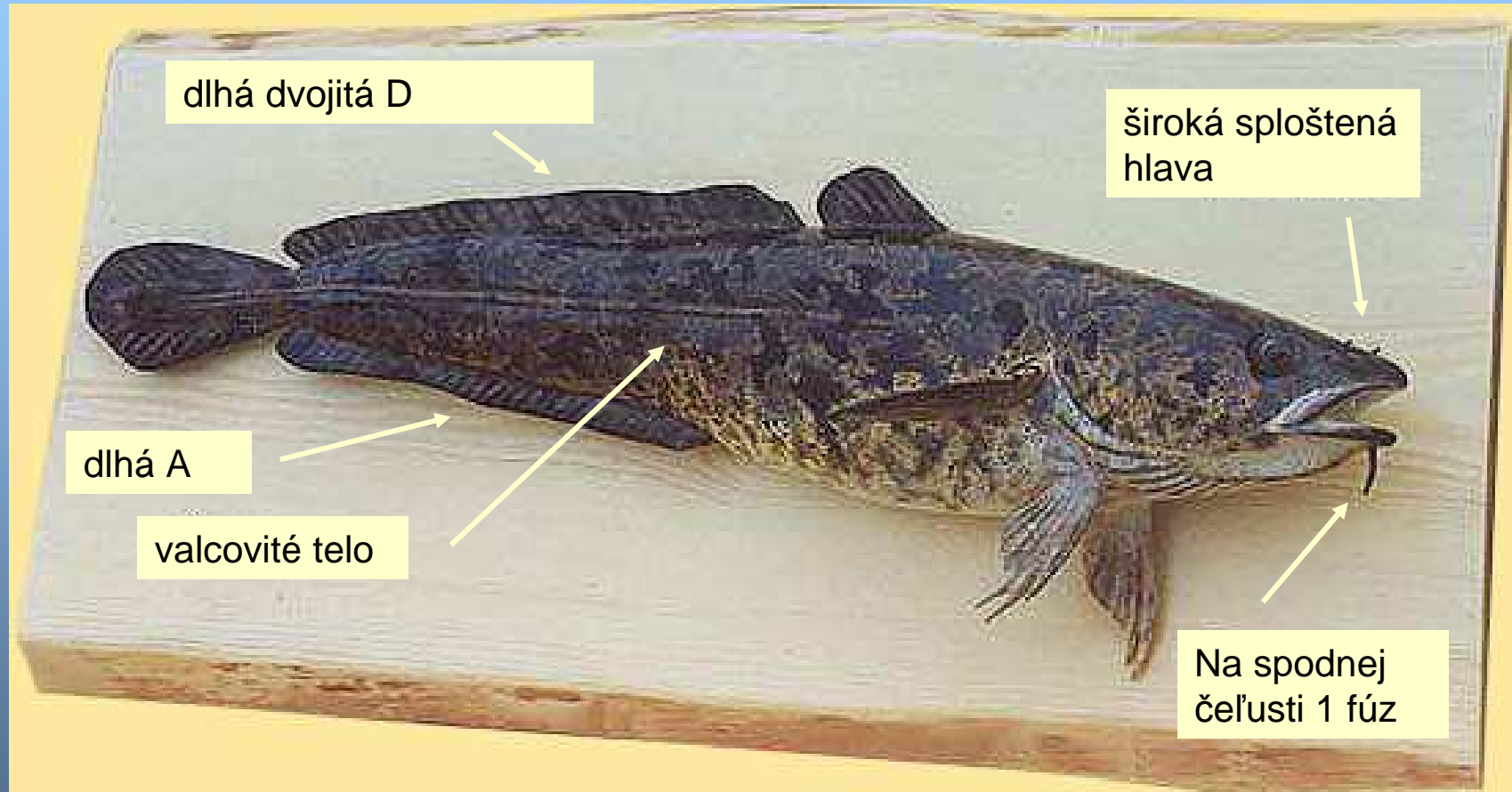




*Esox lucius* (šťuka severná)

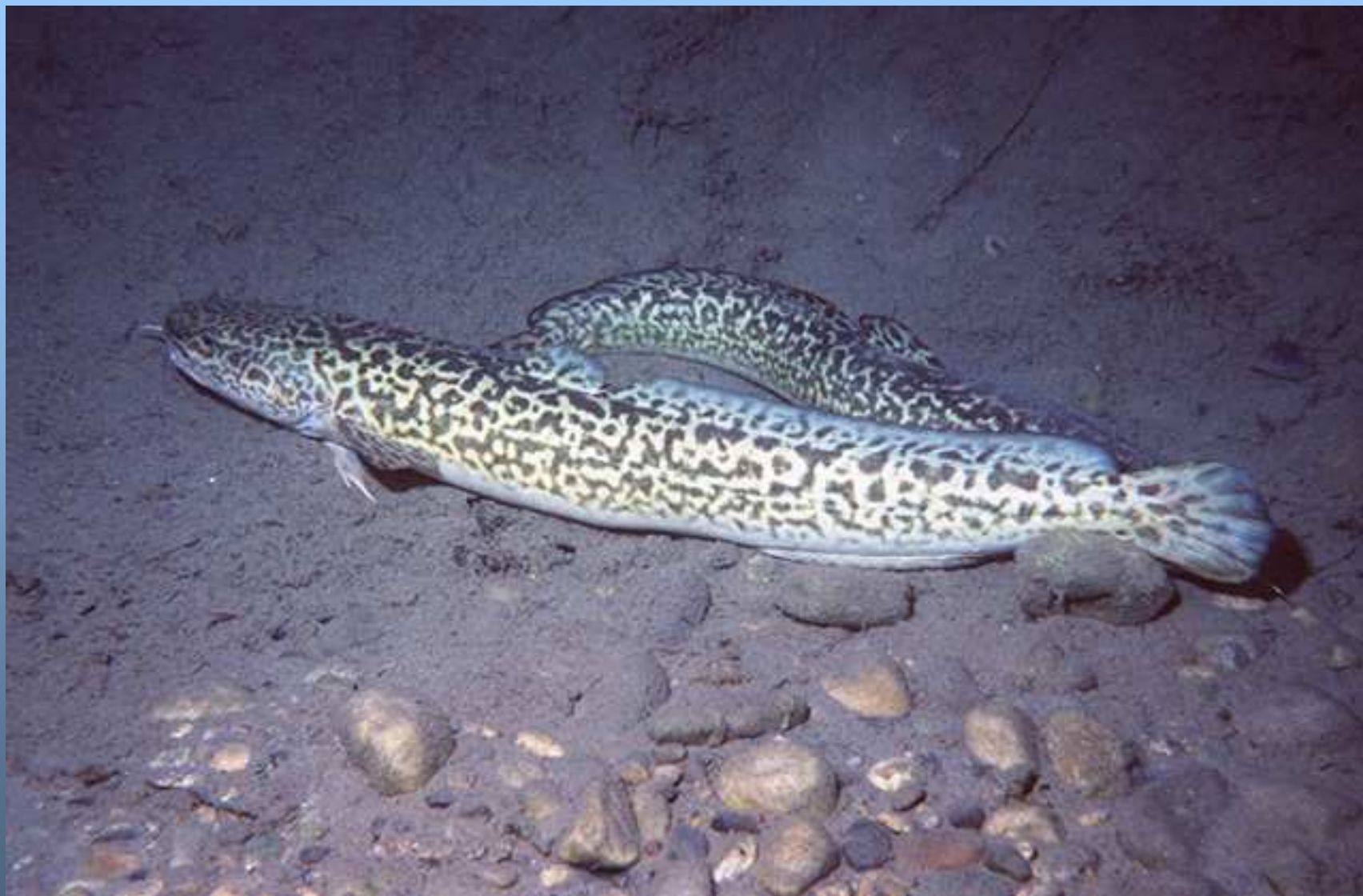


## *Lota lota* (mieň sladkovodný)



< 80 cm, 2 kg

*Lota lota* (mieň sladkovodný)

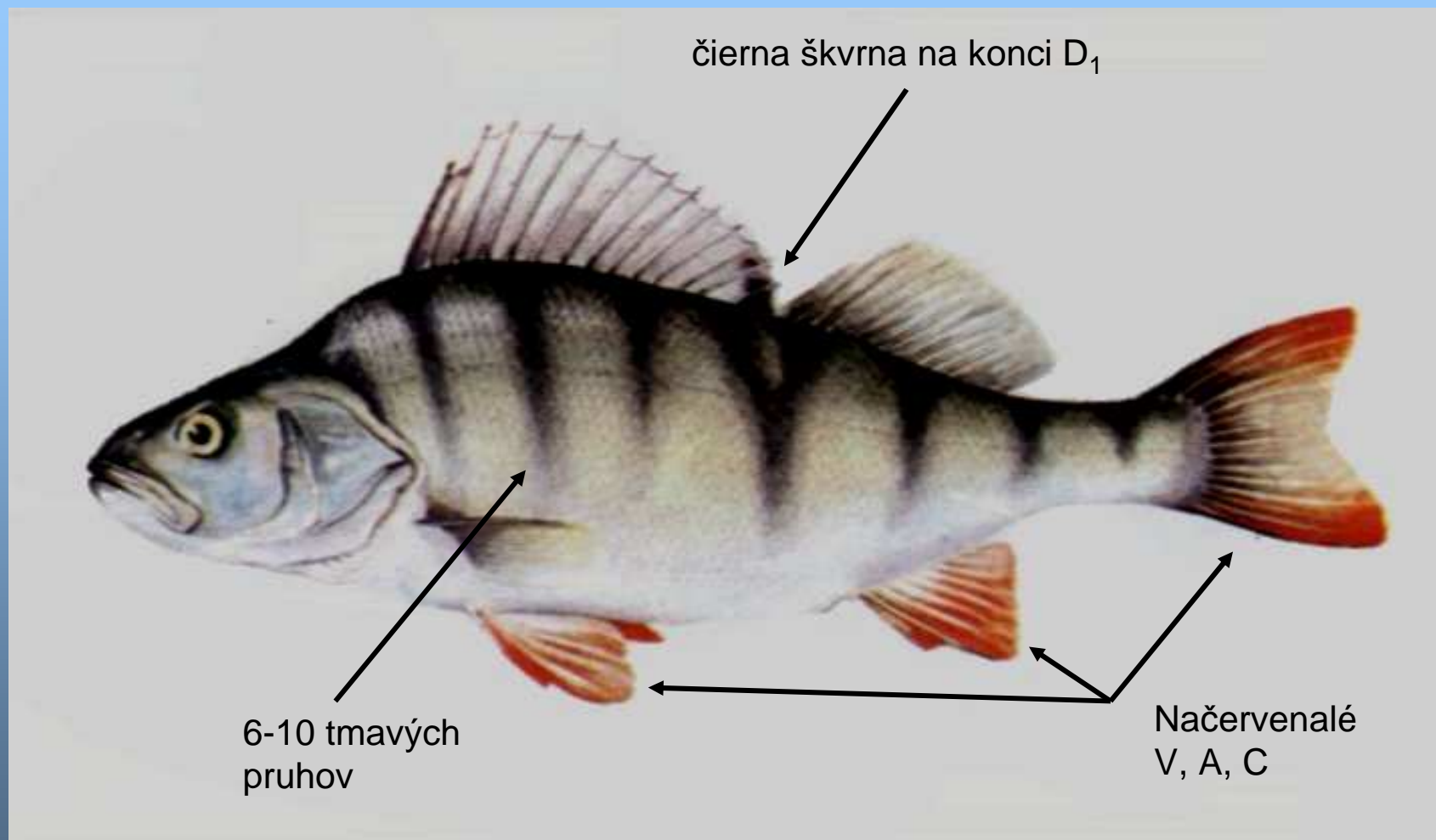


## *Percidae* (ostriežovitě)

- D rozdělená na 2 části, v  $D_1$  tvrdé lúče, v  $D_2$  měkké lúče
- ústa bez fúzov
- 4 rody:
  - *Perca* (ostriež)
  - *Gymnocephalus* (hrebenačka)
  - *Stizostedion* (zubáč)
  - Zingel (kolok)



*Perca fluviatilis* (ostriež zelenkavý)



< 50 cm, 3 kg  
(LL 46 – 79)

*Perca fluviatilis* (ostriež zelenkavý)





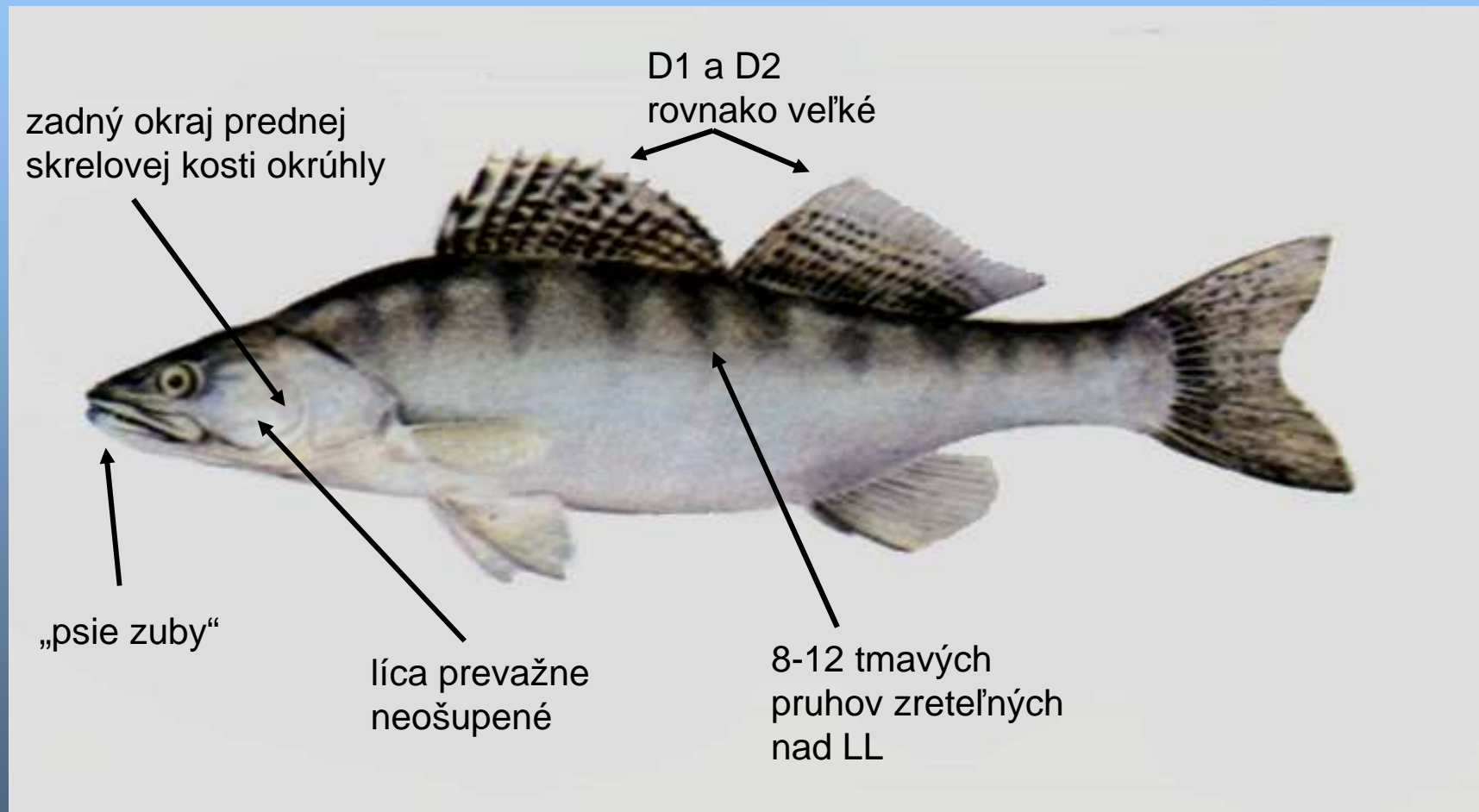
*Perca fluviatilis* (ostriež zelenkavý)



*Perca fluviatilis* (ostriež zelenkavý)

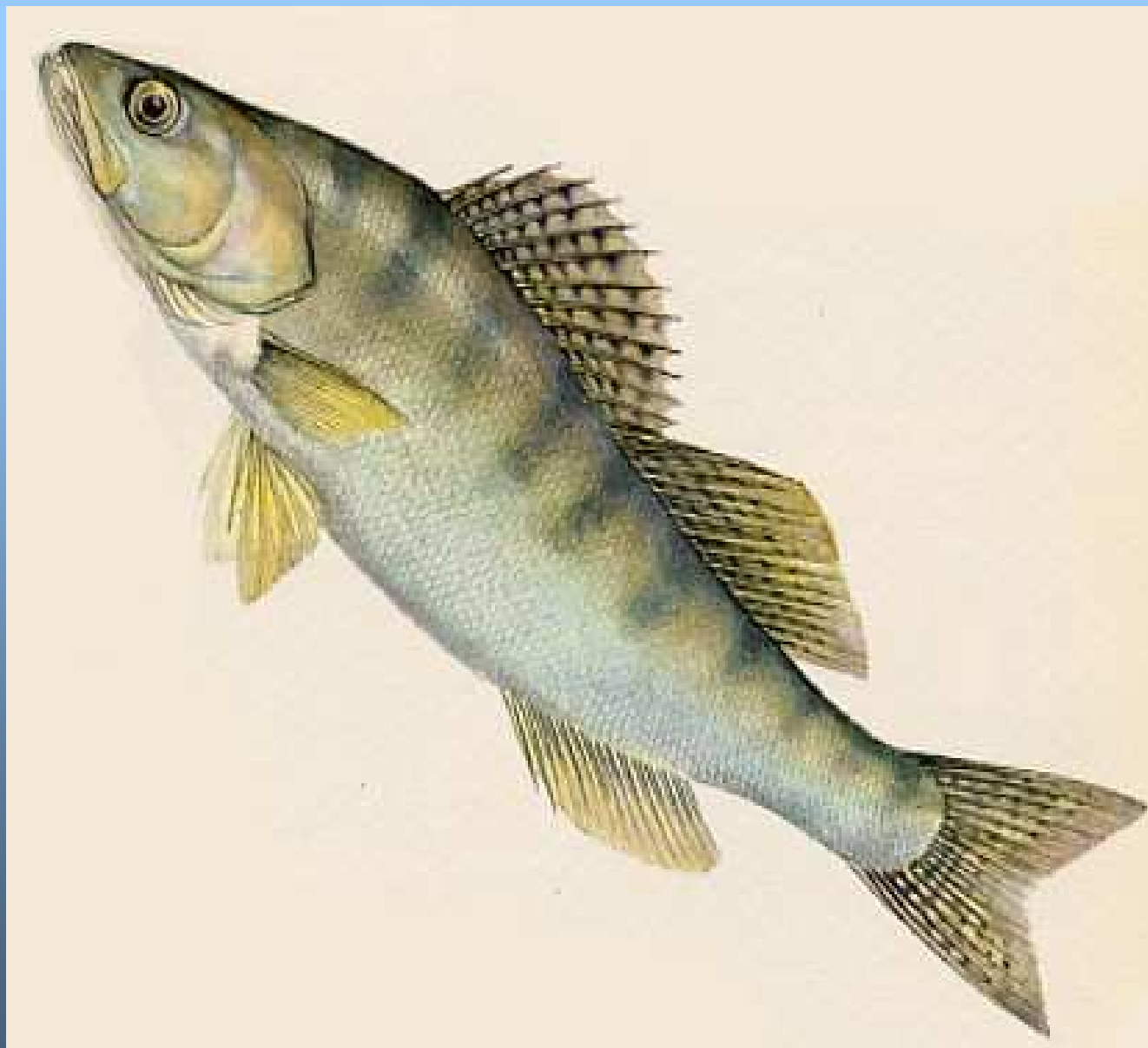


## *Stizostedion lucioperca* (zubáč veľkoústy)

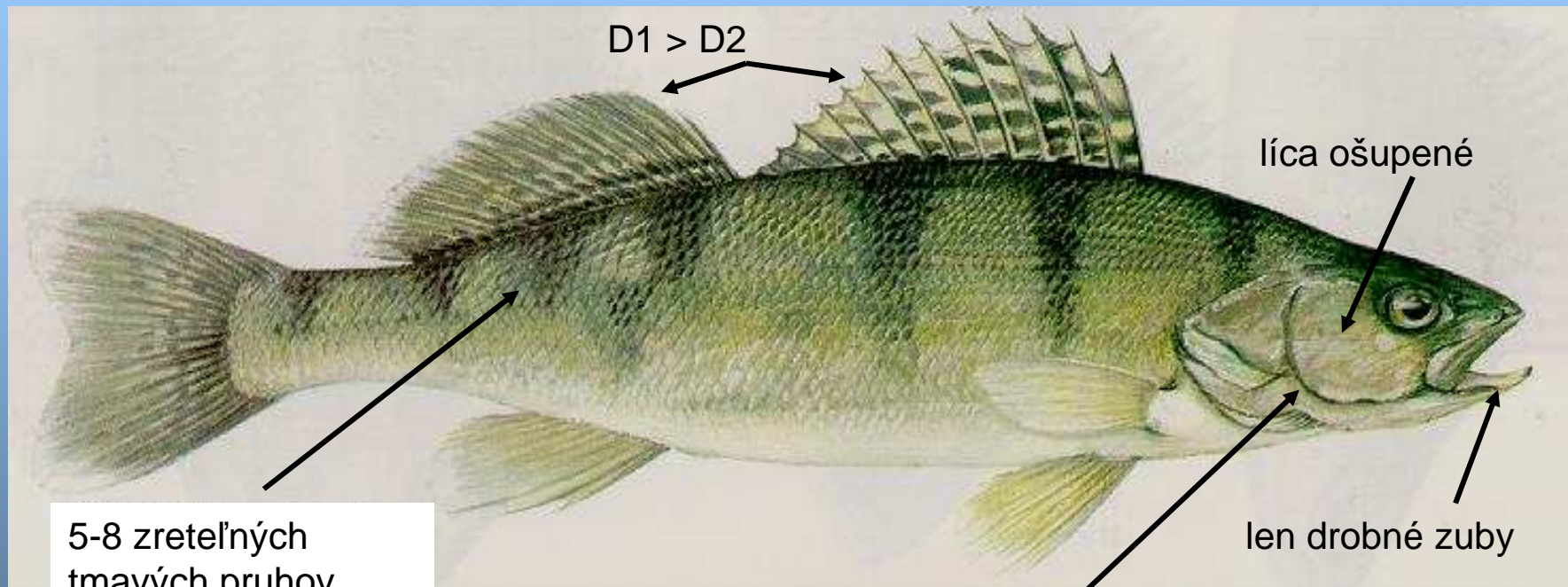


< 100 cm, 15 kg

*Stizostedion lucioperca* (zubáč veľkoústy)



## *Stizostedion volgensis* (zubáč volžský)



5-8 zreteľných  
tmavých pruhov

$D1 > D2$

líca ošupené

len drobné zuby

zadný okraj prednej  
skrelovej kosti  
pravouhlý

< 55 cm, 3 kg



*Perca fluviatilis*

*Gymnocephalus cernuus*  
(hrebenačka frkaná)

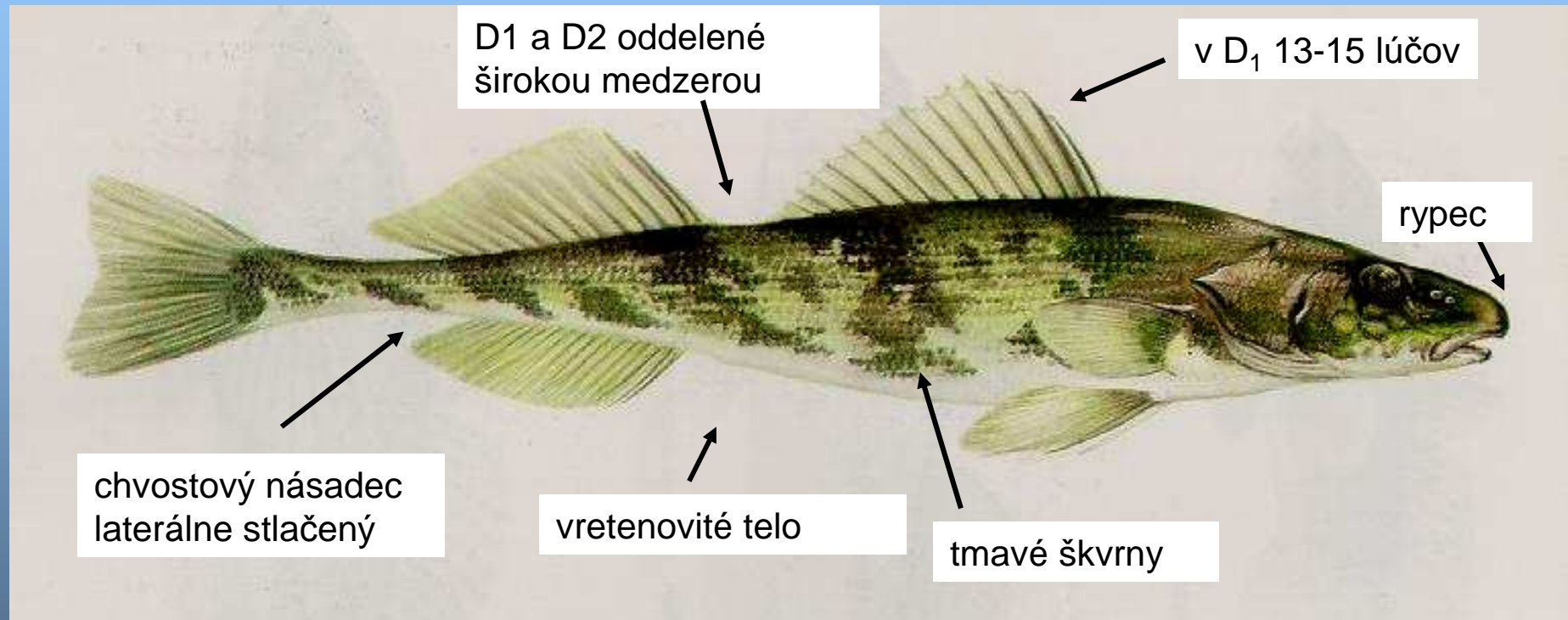
*G. baloni* (h. vysoká)

*G. schraetser* (h. pásavá)



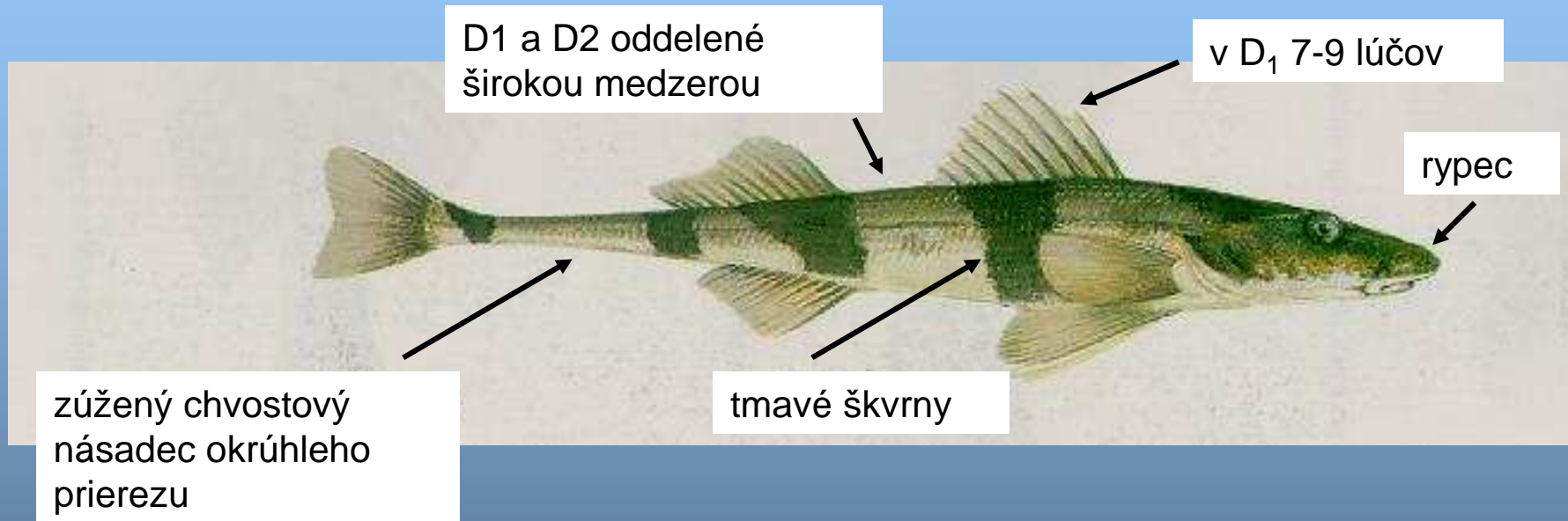


## *Zingel zingel* (kolok veľký)



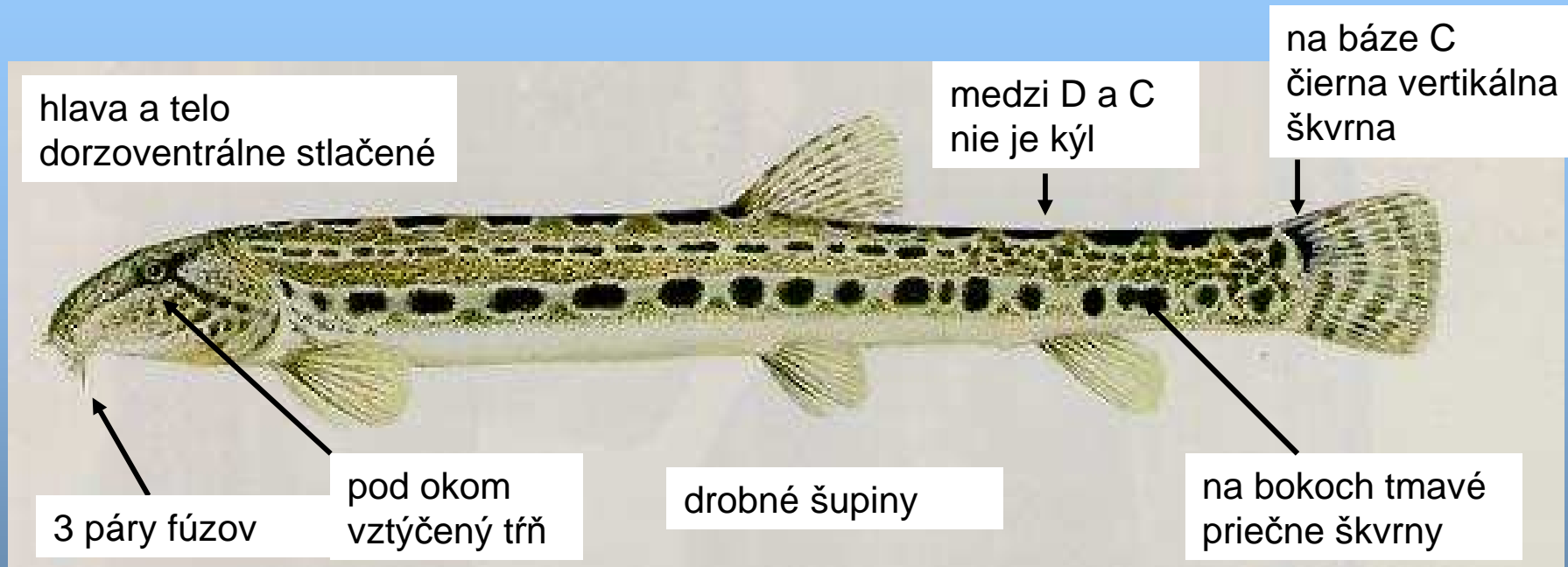
< 40 cm, 0.5 kg

## *Zingel streber* (kolok vretenovitý)



< 15 cm

## *Cobitis taenia* (plž severný)



< 9 cm

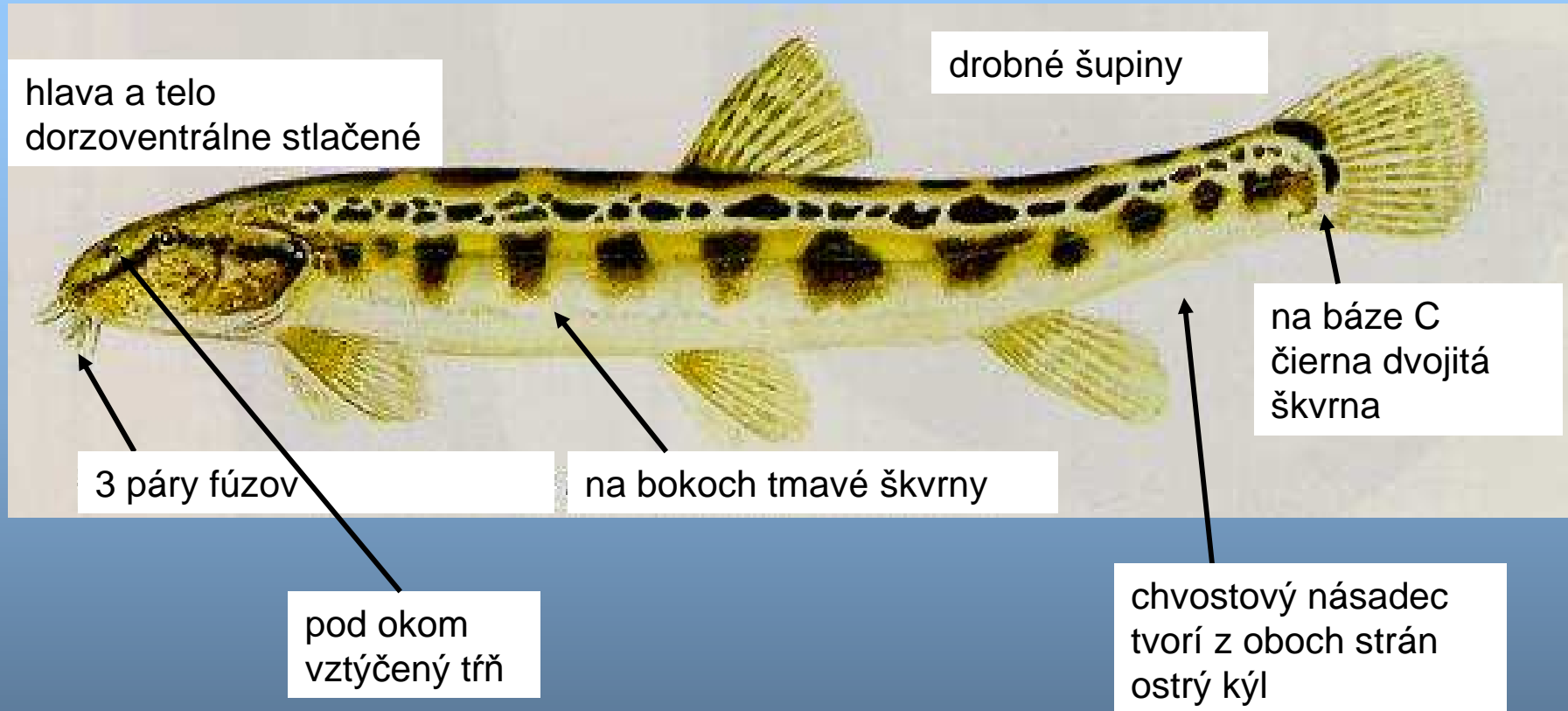
*Cobitis taenia* (plůž severný)



*Cobitis taenia* (plž severný)



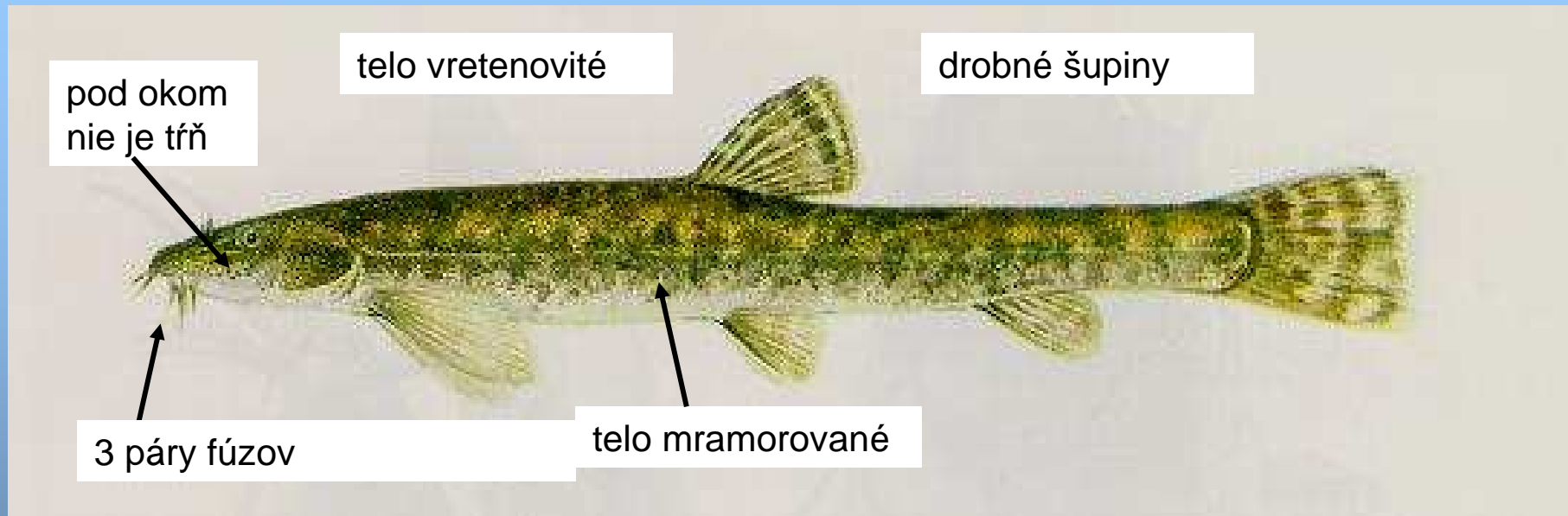
## *Sabanejewia balcanica* (plž zlatistý)



< 10 (14) cm

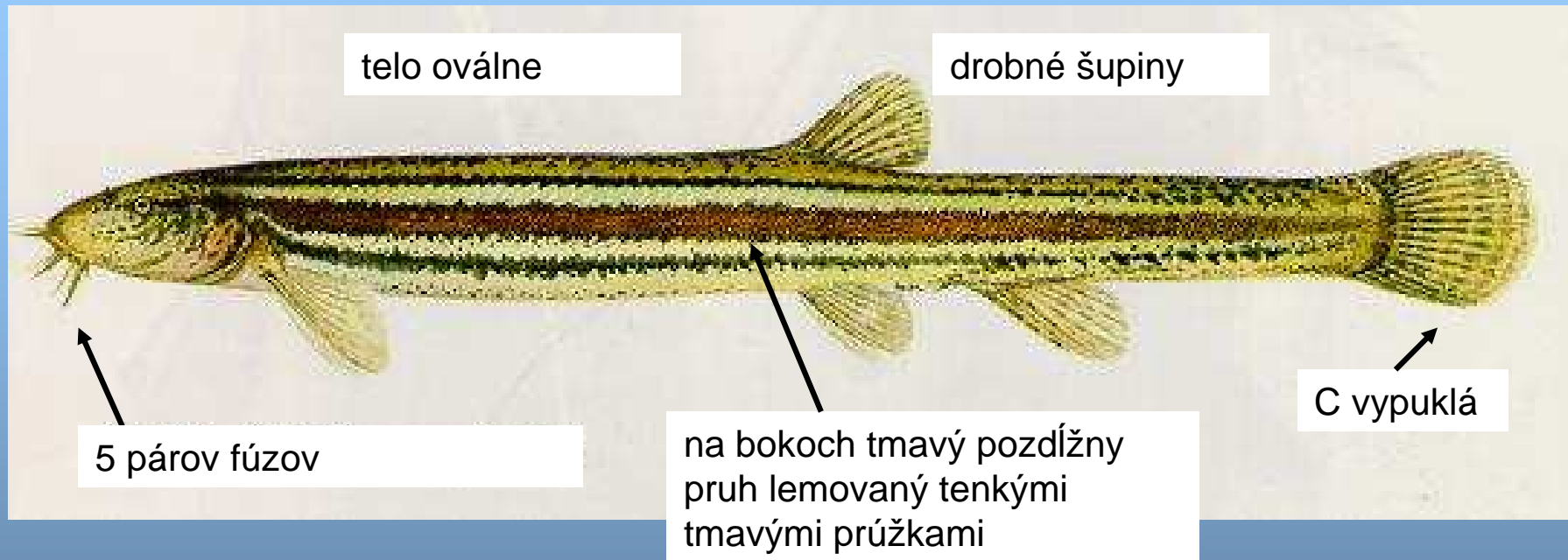


## *Barbatula barbatula* (slíž severný)



< 13 (16) cm

## *Misgurnus fossilis* (čík európsky)



< 30 cm, 0,15 kg

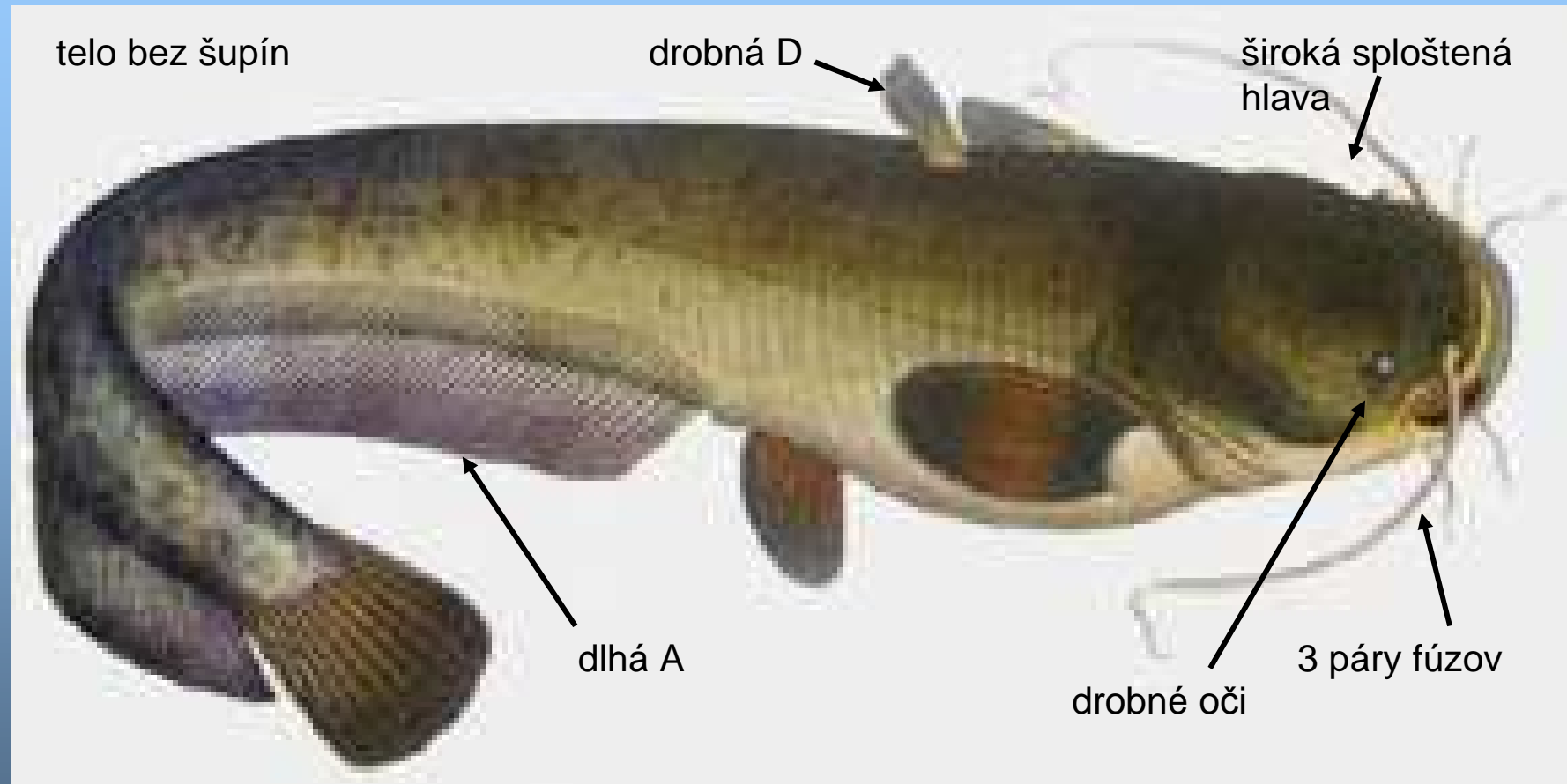


*Misgurnus fossilis*  
(čík európsky)

*Misgurnus fossilis*  
(čík európsky)



## *Silurus glanis* (sumec velký)



< 2,5 m, 100 kg



*Silurus glanis*  
(sumec velký)

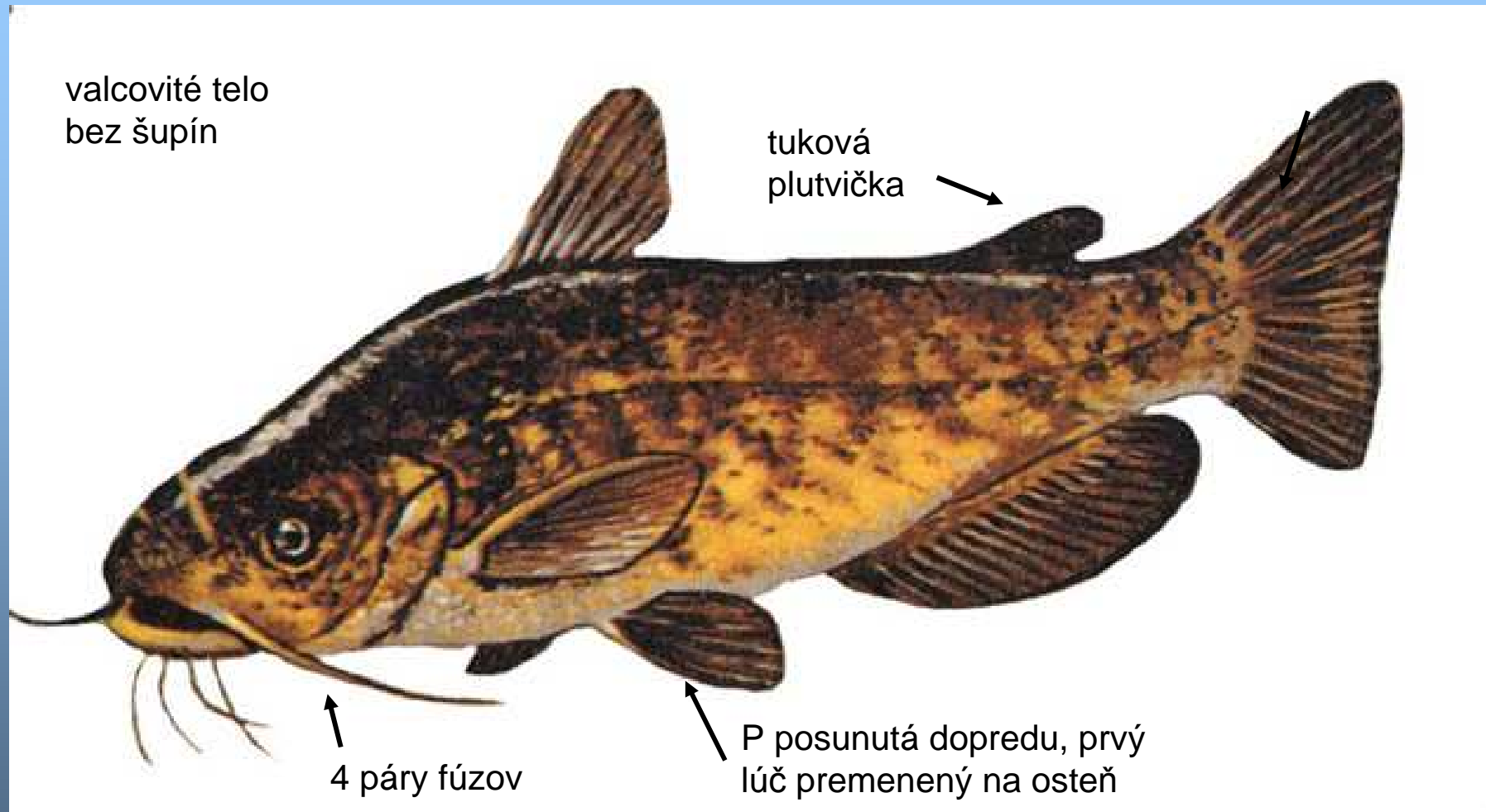






*Silurus glanis*  
(sumec velký)

*Ictalurus nebulosus* (sumček hnědý)



< 30 cm; 0,35 kg

## *Anguilla anguilla* (úhor európsky)

hadovité telo

nepárové plutvy  
splynuli do  
plutvového lemu

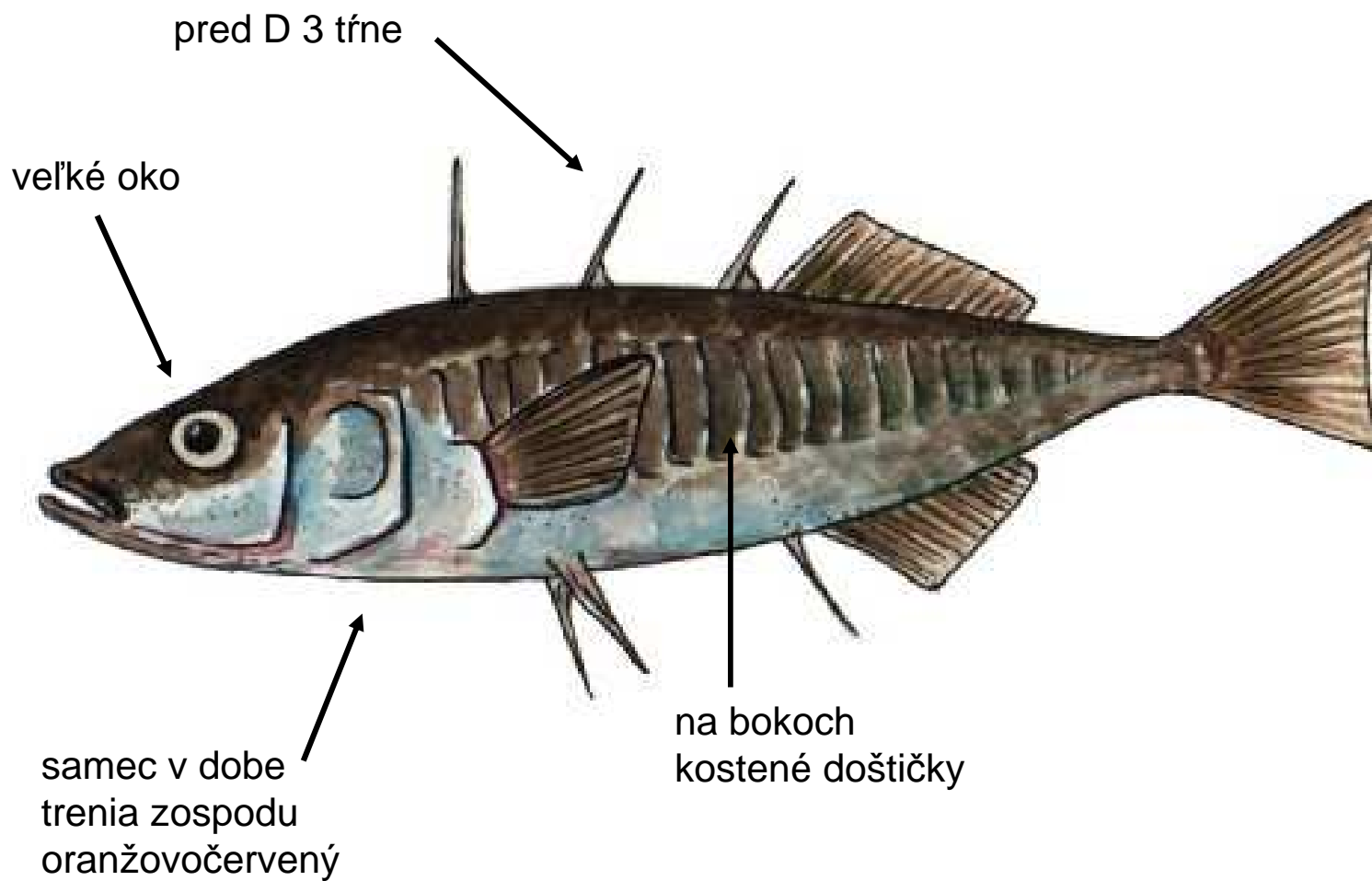


V zanikli

samica < 1,5 m; 6 kg

samec < 50 cm; 0,3 kg

*Gasterosteus aculeatus* (pichľavka trojostňová)



6 cm

*Gasterosteus aculeatus* (pichľavka trojostňová)

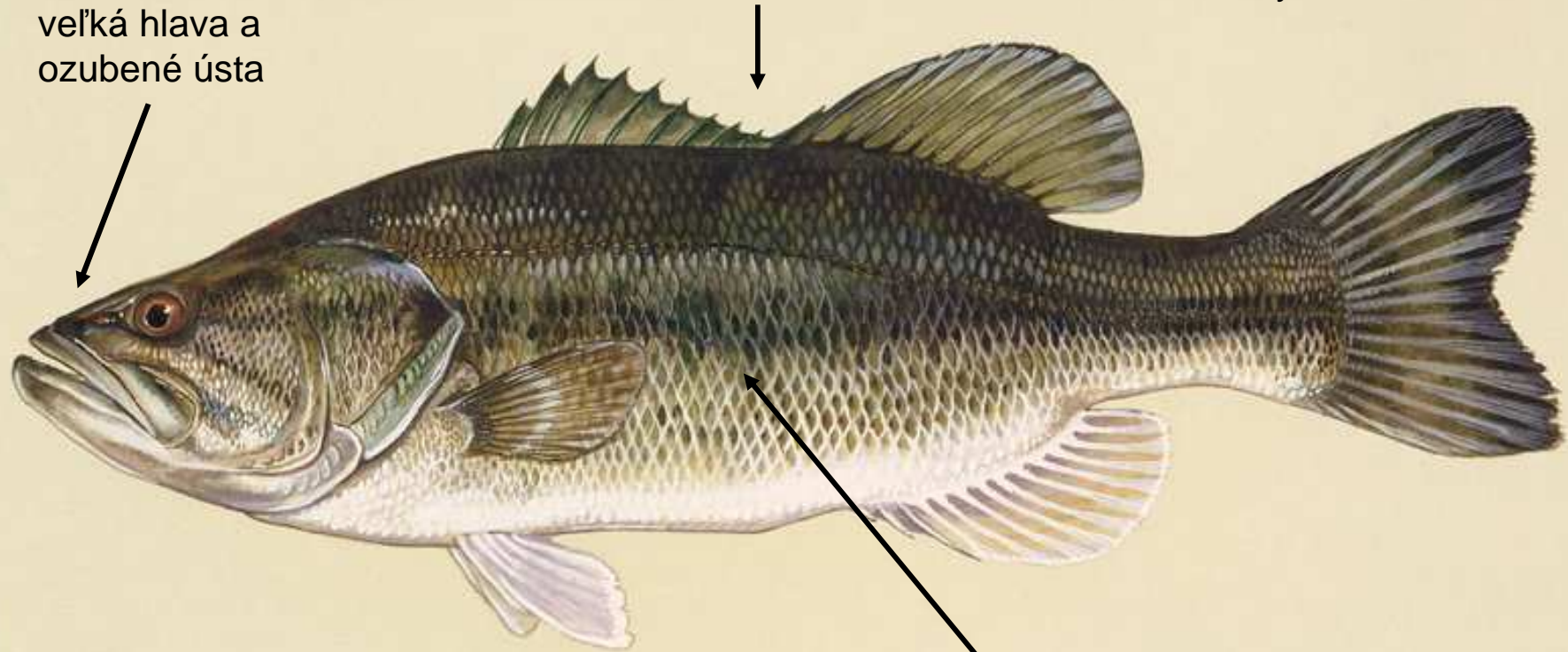


*Micropterus salmoides* (ostračka lososovitá)

veľká hlava a  
ozubené ústa

D dvojitá

vysoké telo

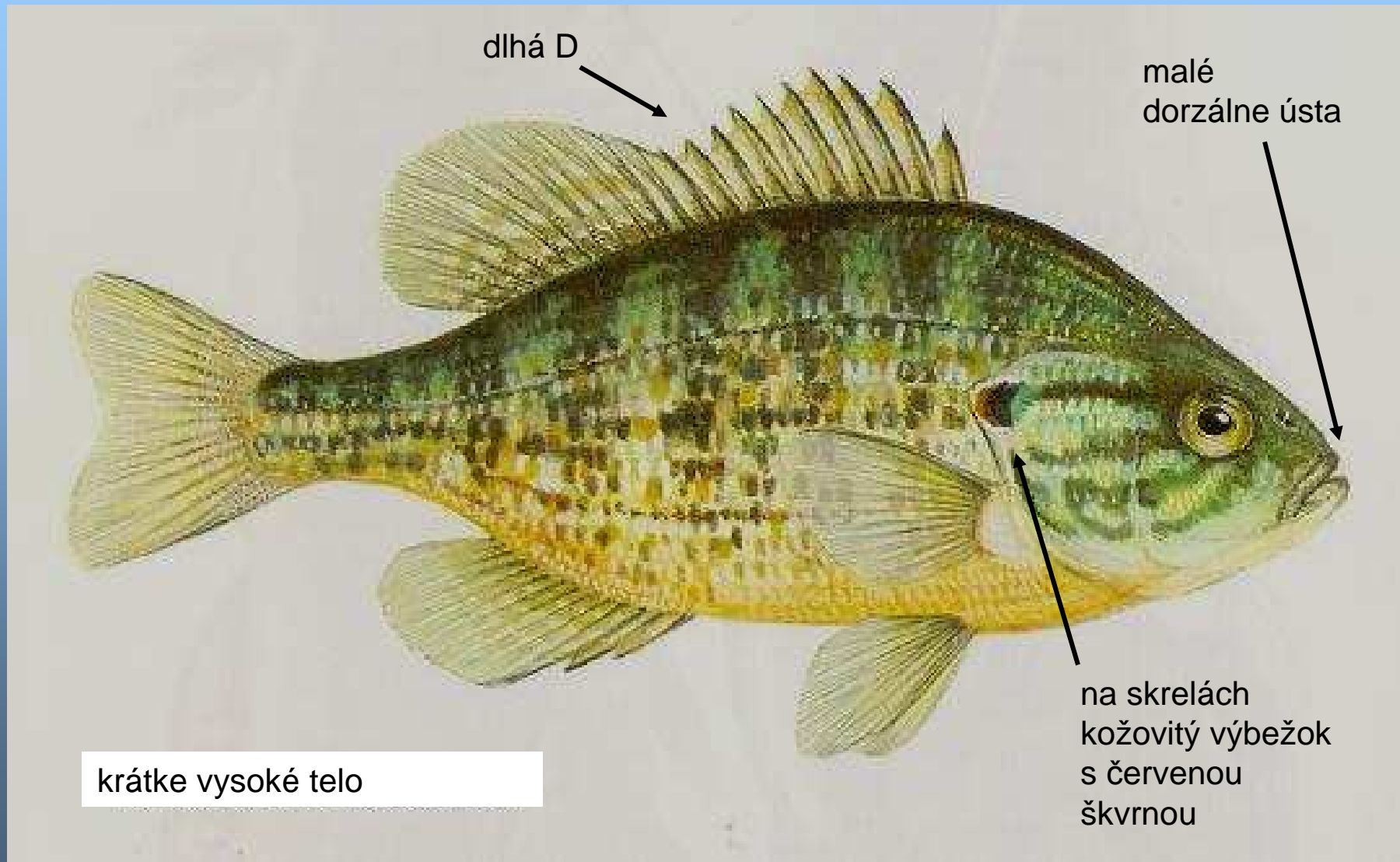


na bokoch tmavé  
škvrny tvoriace  
pás

50 cm, 1 kg



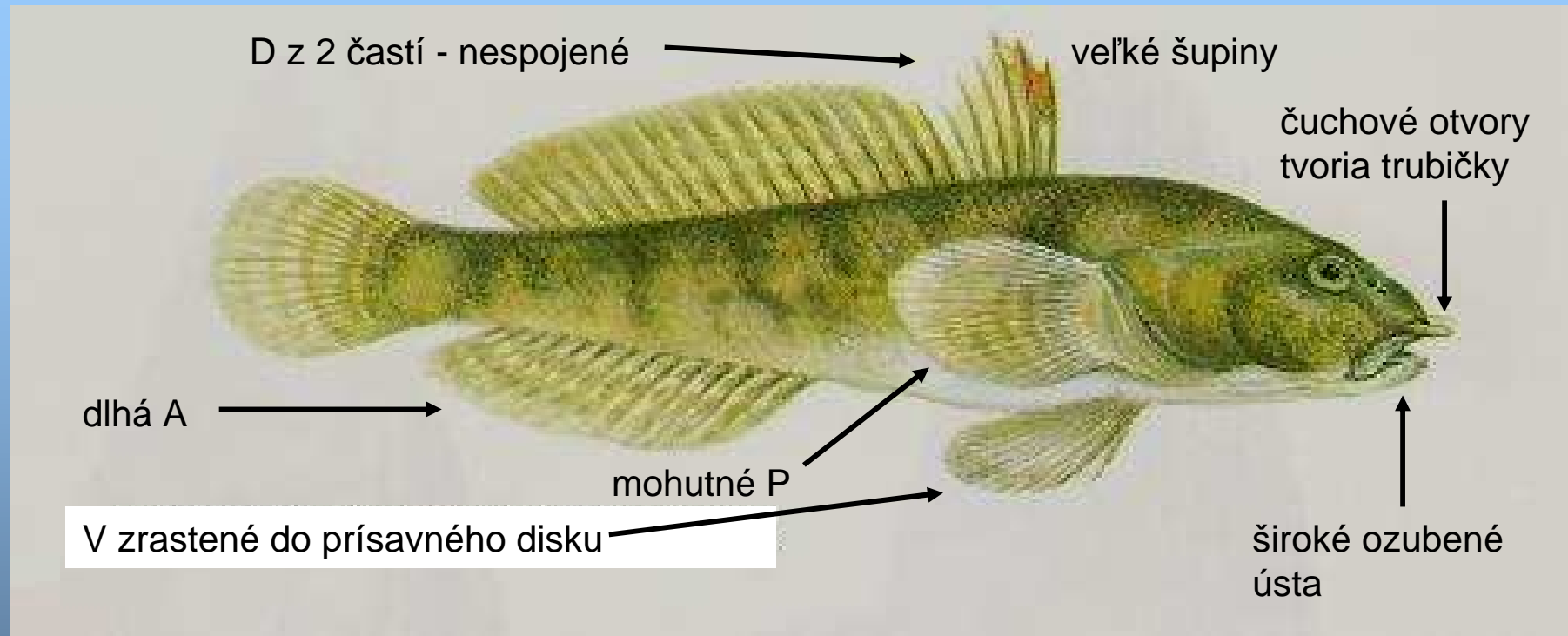
*Lepomis gibbosus* (slnečnica pestrá)



*Lepomis gibbosus* (slnečnica pestrá)



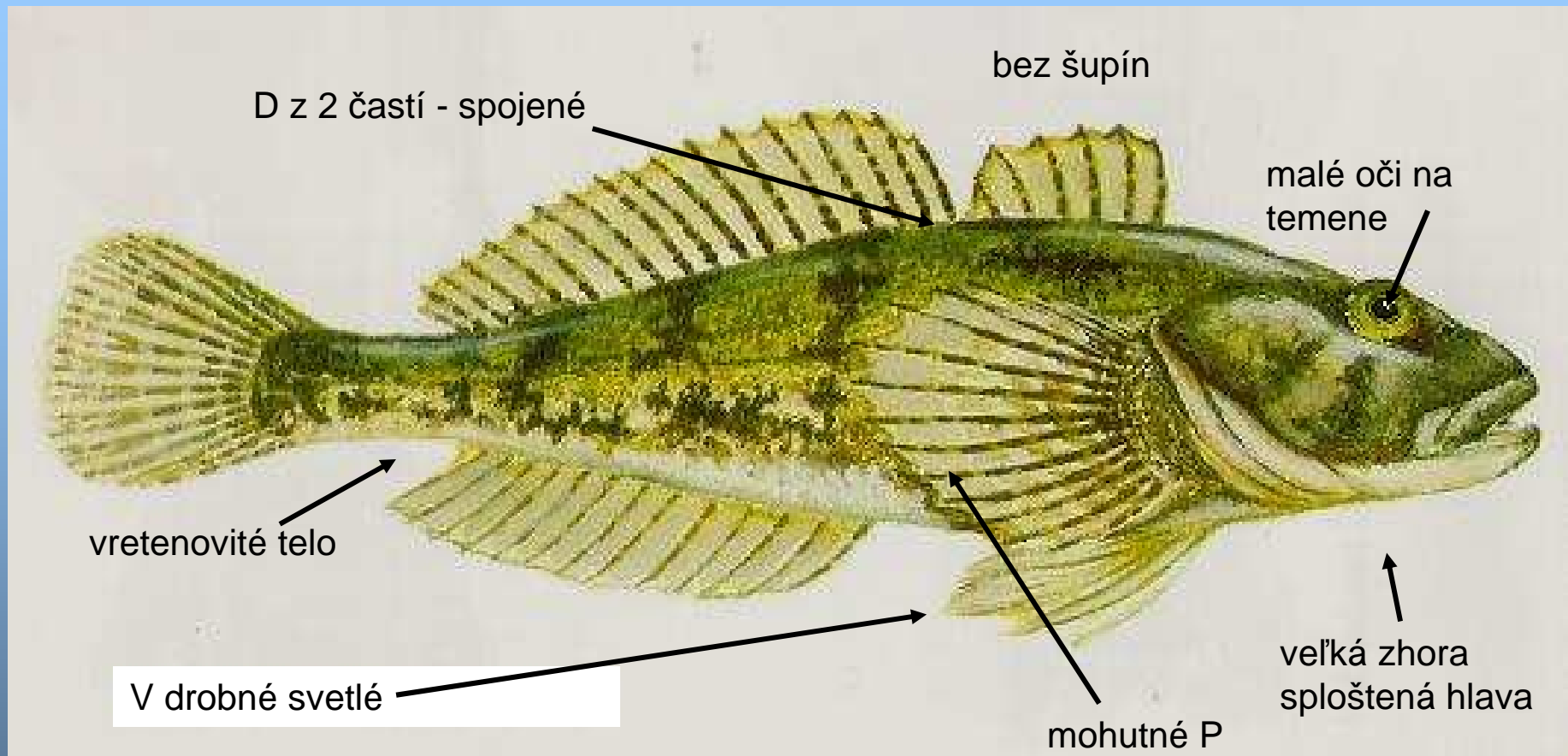
## *Proterorhynchus marmoratus* (býčko škvrnitý)



7 cm



# *Cottus gobio* (hlaváč bieloplutvý)



15 cm

*Cottus poecilopus* (hlaváč pásoplutvý)



15 cm