

UNIVERSITY OF COLORADO MUSEUM

Zoology Section
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TO:

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Invoice No.: V-2
 Date: 29 August 2013
 Loan Period: Fall 2013
 Prepared by: Dr. Christy McCain
 Approved by: Dr. Christy McCain

MATERIAL (As appropriate, state catalog numbers, name, locality, collector, etc.)

Wet specimen lots in the Fish Synoptic Teaching Collection; preserved in 70% ethanol
 Number of specimens per lot in parentheses following jar ID
 Dry specimens from Osteology & the K-12 Educational Collection

Lab 2: Week of September 4 (3 lots of 137 specimens)

F56 (55) miscellaneous fish (Teleostei), not taxonomically sorted or identified, no data, include partially dissected specimens
F57 (61) miscellaneous fish (Teleostei), not taxonomically sorted or identified, no data, include partially dissected specimens
F58 (21) miscellaneous fish (Teleostei), not taxonomically sorted or identified, no data, include partially dissected specimens

Lab 3: Week of September 11 (3 specimens)

K-12 F-9 semi-articulated carp skeleton including skull, no ID, from Colorado: Larimer Co.
K-12 No# articulated carp skull with partial skeleton, no ID, no data
K-12 No# disarticulated carp skeleton including skull, no ID, no data

Lab 5: Week of September 25 (19 lots of 46 specimens)

OS-643 *Squalus* sp. (spurdog), chondrocranium dry cast, no data
OS-658 (TC I-4) *Squalus* sp. (spurdog), chondrocranium and visceral arches, 70% ethanol in plexiglas container
OS-2233 *Heterodontus francisci* (horn shark), one dry egg case, no data
OS-2403 (UCM 675) *Centrophorus squamosus* (leafscale gulper shark), jaw, from Madeira, Portugal
OS-2993 *Pristis pectinata* (smalltooth sawfish), rostrum only, no data
OS-3079 *Carcharhinus* sp. (requiem shark), jaw, no data
TC F-4 (1) *Sphyrna tiburo* (bonnethead shark), no data, 70% ethanol
TC F-5 (UCM 6662) (1) *Dasyatis sabina* (Atlantic stingray), from Florida, 70% ethanol
TC F-6 (1) Gymnuridae (butterfly ray), no ID, from Florida, 70% ethanol
TC F-52 (2) Dasyatidae (stingray), no ID, dry tail spines only, from Philippines
TC F-53 (2) *Potamotrygon* sp. (river stingray), tail tip damaged; captive, 70% ethanol
UCM 6862 (1 +1 egg) *Bathyrja parmifera* (Alaska skate), from North Pacific, 70% ethanol
TC F-63 (1) *Torpedo* sp. (electric ray), no data, 70% ethanol
K-12 F-1 *Squatina* cf. *californica* (angel shark), dry head, from California
K-12 F-20 (6 pcs) *Dasyatis* sp. (stingray), spines (stingers), no data
K-12 no# (3 pcs) Chimaeridae (chimaera) cf. *Hydrolagus colliei*, (spotted ratfish), dry egg cases, from Puget Sound
K-12 no# (1 piece) *Heterodontus* sp. (horn shark), half jaw, no data
K-12 no# (22 pcs) dry skate egg cases, from California
K-12 no# (5 pcs including 1 from UCM 825) dry shark egg cases, from California

Lab 6: Week of October 2 (14 lots of 20 specimens)

TC F-79 (1 of 2 specs) *Polyodon spathula* (American paddlefish), oversize, no data, 70% ethanol
TC F-7 (1 spec) *Acipenser transmontanus* (white sturgeon), no data, juvenile, 70% ethanol
UCM 6630 (2) *Scaphirhynchus platyrhynchus* (shovelnose sturgeon), from Louisiana, 70% ethanol
UCM 7180 (2) *Scaphirhynchus platyrhynchus* (shovelnose sturgeon), from Missouri River, juveniles, 70% ethanol
TC F-59 (1) *Scaphirhynchus platyrhynchus* (shovelnose sturgeon), from Mississippi River, oversize, 70% ethanol
UCM 304 (5) *Polypterus senegalus* (gray bichir), from Sudan, 70% ethanol
UCM 6746 (1) *Amia calva* (bowfin), from Louisiana, juvenile, 70% ethanol
EPOB 65 *Amia* sp. (bowfin), skull cast, no data
EPOB 66 *Lepisosteus* sp. (gar), skull cast, no data

EPOB 67	<i>Lepisosteus</i> sp. (gar), skull cast, no data
UCM 965 (1)	<i>Lepisosteus osseus</i> (longnose gar), from Canada: Ontario, juvenile, 70% ethanol
K-12 F-28	ganoid scales from <i>Lepisosteus</i> sp. (gar), mounted, from Texas
K-12 F-17	ganoid scales from <i>Polypterus senegalus</i> (gray bichir), mounted, no data
K-12 No# (140+ pcs)	ganoid scales from gar, loose, no ID, purchased, no data

Exam I: Week of October 9 (6 lots of 65 specimens)

K-12 F-1 (1)	<i>Squatina</i> cf. <i>californica</i> (angel shark), dry head, from California
TC F-53 (2)	<i>Potamotrygon</i> sp. (river stingray), tail tip damaged; captive, 70% ethanol
TC F-79 (1 of 2 specs)	<i>Polyodon spathula</i> (American paddlefish), oversize, no data, 70% ethanol
TC F-59 (1)	<i>Scaphirhynchus platyrhynchus</i> (shovelnose sturgeon), from Mississippi River, oversize, 70% ethanol
UCM 304 (5)	<i>Polypterus senegalus</i> (gray bichir), from Sudan, 70% ethanol
TC F-56 (55)	miscellaneous fish (Teleostei), not sorted or identified, no data, include partially dissected, 70% ethanol

Lab 7: Week of October 16 (23 lots of 99 specimens)

TC F-9 (1 spec)	Muraenidae (moray eel), no ID, no data
UCM 7212 (1)	<i>Catostomus commersonii</i> (white sucker), no data (in same lot with UCM 7350)
UCM 7350 (1)	<i>Catostomus commersonii</i> (white sucker), no data (in same lot with UCM 7212)
TC F-25 (1)	<i>Catostomus latipinnis</i> (flannelmouth sucker), no data, oversize
TC F-26 (2)	<i>Catostomus discobolus</i> (bluehead sucker), from Colorado: Mesa Co.
UCM 6319 (18)	<i>Campostoma anomalum</i> (central stoneroller), from Colorado: Boulder Co.
TC F-27 (1)	<i>Gila robusta</i> (roundtail chub), from Colorado: Mesa Co.
UCM 6159 (7)	<i>Luxilus cornutus</i> (common shiner), from Colorado: Boulder Co.
UCM 6236 (10)	<i>Rhinichthys cataractae dulcis</i> (longnose dace), from Colorado: Larimer Co.
UCM 6193 (7)	<i>Gymnotus carapo</i> (knifefish), from Guyana
UCM 799 (8)	<i>Eigenmannia virescens</i> (glass knifefish), from Guyana (in same lot with TC F-76)
TC F-76 (1)	<i>Eigenmannia</i> sp., no data (in same lot with UCM 799)
UCM 303 (1)	<i>Mormyrus kannume</i> (elephant-snout fish), from Egypt
UCM 6641 (7)	<i>Ameiurus melas</i> (black bullhead), from Colorado: Boulder Co.
UCM 807 (2)	<i>Hypostomus plecostomus</i> (suckermouth catfish), from Guyana
TC F-39 (1)	<i>Umbra limi</i> (central mudminnow), no data
UCM 2144 (1)	<i>Lota lota maculosa</i> (burbot), from Minnesota
TC F-46 (1)	<i>Percopsis omiscomaycus</i> (trout-perch), no data
UCM 6659 (2)	<i>Oncorhynchus clarkii</i> (cutthroat trout), from Colorado: Jackson Co.
UCM 6041 (1)	<i>Oncorhynchus mykiss gairdnerii</i> (Columbia River redband trout), farm-raised
UCM 7090 (1)	<i>Oncorhynchus mykiss gairdnerii</i> (Columbia River redband trout), from Colorado (?)
UCM 7181 (1)	<i>Salmo trutta</i> (brown trout), no data
TC F-16 (5)	<i>Salvelinus fontinalis</i> (brook trout), no data

Lab 8: Week of October 23 (15 lots of 60 specimens)research specimens: should only be for demonstration**

TC F-26 (2)	<i>Catostomus discobolus</i> (bluehead sucker), from Colorado: Mesa Co.
UCM 7353 (1)	<i>Xyrauchen texanus</i> (razorback sucker), from New Mexico: Chavez Co. **
UCM 7357 (2)	<i>Ptychocheilus lucius</i> (Colorado pikeminnow), from New Mexico: Chavez Co. **
UCM 6899 (1)	<i>Gila cypha</i> (humpback chub), from Colorado **
UCM 7358 (1)	<i>Gila elegans</i> (bonytail chub), from New Mexico: Chavez Co. **
UCM 6643 (2 of 9)	<i>Couesius plumbeus</i> (lake chub), from Wyoming: Campbell Co. **
UCM 378 (1)	<i>Platygobio gracilis</i> (flathead chub), from Colorado: Flemont Co. **
UCM 7411 (2)	<i>Hybognathus hankinsoni</i> (brassy minnow), from Colorado: Yuma Co. **
UCM 7223 (1)	<i>Pimephales promelas</i> (fathead minnow), from Colorado: Yuma Co. **
UCM 27 (2)	<i>Chrosomus erythrogaster</i> (southern redbelly dace), from Colorado: Boulder Co. **
UCM 6236 (10)	<i>Rhinichthys cataractae dulcis</i> (longnose dace), from Colorado: Larimer Co.
UCM 7402 (24)	<i>Rhinichthys osculus</i> (speckled dace), from Colorado: Delta Co. **
UCM 7407 (3)	<i>Notropis blennioides</i> (river shiner), from Colorado: Yuma Co. **
UCM 7480 (1)	<i>Notropis dorsalis</i> (bigmouth shiner), from Colorado: Boulder Co. **
UCM 6159 (7)	<i>Luxilus cornutus</i> (common shiner), from Colorado: Boulder Co.

Lab 9: Week of October 30 (29 lots of 126 specimens)

UCM 786 (6 spec)	<i>Anableps anableps</i> (four-eyed fish), from Guyana
UCM 7109 (14)	<i>Cyprinodon pecosensis</i> (pecos pupfish), from New Mexico
TC F-80 (16)	<i>Fundulus heteroclitus</i> (mummichog), no data
UCM 6774 (4)	<i>Fundulus sciadicus</i> (plains topminnow), from Colorado: Morgan Co.
UCM 908 (5)	<i>Culaea inconstans</i> (brook stickleback), from Minnesota

UCM 6098 (1)	<i>Hippocampus guttulatus</i> (long-snouted seahorse), no data, 9 embryos included
UCM 6627 (8)	<i>Istiblennius zebra</i> (rockskipper), from Hawaii
TC F-62 (1)	<i>Selene setapinnis</i> (Atlantic moonfish), juvenile, no data (in same lot with UCM 6646)
UCM 6646 (1)	<i>Selene vomer</i> (lookdown), from Texas (in same lot with TC F-62)
TC F-44 (1 out of 2)	<i>Micropterus dolomieu</i> (smallmouth bass), no data, oversize
UCM 7458 (1)	<i>Micropterus salmoides</i> (largemouth bass), dry mummified head only; no data
UCM 6137 (14)	<i>Haplochromis</i> sp. (African cichlid), from Kenya: Lake Victoria; may include other taxa
UCM 6387 (1)	<i>Hemichromis fasciatus</i> (banded jewelfish), from Botswana, purchased
TC F-75 (1)	<i>Chaetodipterus faber</i> (Atlantic Spadefish), ID tentative, no data, oversize
TC F-14 (10)	<i>Bathygobius fuscus</i> (common frill-fin goby), no data
UCM 6837 (1)	<i>Anampses</i> sp. (wrass), no ID, from the Philippines, purchased
TC F-45 (1)	<i>Morone saxatilis</i> (striped bass), ID tentative, no data, oversize
UCM 7163 (7)	<i>Etheostoma nigrum</i> (Johnny darter), no data
UCM 6779 (6)	<i>Perca flavescens</i> (yellow perch), from Colorado: Boulder County
TC F-42 (1 out of 2)	<i>Sander vitreus</i> (= <i>Stizostedion vitreum</i> , walleye), no data, oversize, partially dissected
UCM 6681 (1)	<i>Pomacanthus</i> sp. (marine angelfish), no ID, from Taiwan
TC F-77 (1)	<i>Scarus</i> sp. (parrotfish), no ID, no data
UCM 767 (16)	<i>Apionichthys dumerili</i> (= <i>A. unicolor</i> ; longtail sole), from Guyana
UCM 7460 (2)	<i>Psettodes</i> sp. (halibut), no ID, no data
UCM 6616 (1)	<i>Scorpaenodes corallinus</i> (coralline scorpionfish), from Hawaii
UCM 6607 (1)	<i>Taenianotus triacanthus</i> (leaf scorpionfish), from Hawaii
TC F-60 (2)	<i>Sebastes</i> sp. (rockfish), no ID, no data
TC F-65 (1)	<i>Monacanthus</i> sp. (filefish), no ID, no data
UCM 6683 (1)	<i>Lactophrys</i> sp. (trunkfish), no ID, from Taiwan

Lab 11: Week of November 13 (3 lots of 28 specimens)

UCM 7144 (9)	Salmonidae, no ID, no data, Trout Life History set, 9 different life stages
UCM 7145 (12)	Salmonidae, no ID, no data, Salmon Life History set, 6 different life stages
TC F-15 (7)	<i>Oncorhynchus kisutch</i> (coho salmon), no data, 7 different life stages

Lab 13 & Exam II: Week of December 4 & 11 (21 lots of 103 specimens)

UCM 303 (1)	<i>Mormyrus kannume</i> (elephant-snout fish), from Egypt
UCM 6319 (18)	<i>Campostoma anomalum</i> (central stoneroller), from Colorado: Boulder Co.
UCM 6159 (7)	<i>Luxilus cornutus</i> (common shiner), from Colorado: Boulder Co.
UCM 6236 (10)	<i>Rhinichthys cataractae dulcis</i> (longnose dace), from Colorado: Larimer Co.
TC F-26 (2)	<i>Catostomus discobolus</i> (bluehead sucker), from Colorado: Mesa Co.
UCM 6641 (7)	<i>Ameiurus melas</i> (black bullhead), from Colorado: Boulder Co.
UCM 6193 (7)	<i>Gymnotus carapo</i> (knifefish), from Guyana
UCM 6659 (2)	<i>Oncorhynchus clarkii</i> (cutthroat trout), from Colorado: Jackson Co.
TC F-16 (5)	<i>Salvelinus fontinalis</i> (brook trout), no data
TC F-46 (1)	<i>Percopsis omiscomaycus</i> (trout-perch), no data
UCM 908 (5)	<i>Culaea inconstans</i> (brook stickleback), from Minnesota
UCM 6607 (1)	<i>Taenianotus triacanthus</i> (leaf scorpionfish), from Hawaii
UCM 6779 (6)	<i>Perca flavescens</i> (yellow perch), from Colorado: Boulder County
UCM 6681 (1)	<i>Pomacanthus</i> sp. (marine angelfish), no ID, from Taiwan
UCM 6837 (1)	<i>Anampses</i> sp. (wrass), no ID, from the Philippines, purchased
TC F-77 (1)	<i>Scarus</i> sp. (parrotfish), no ID, no data
UCM 6627 (8)	<i>Istiblennius zebra</i> (rockskipper), from Hawaii
TC F-14 (10)	<i>Bathygobius fuscus</i> (common frill-fin goby), no data
UCM 7460 (2)	<i>Psettodes</i> sp. (halibut), no ID, no data
UCM 6683 (1)	<i>Lactophrys</i> sp. (trunkfish), no ID, from Taiwan
TC F-15 (7)	<i>Oncorhynchus kisutch</i> (coho salmon), no data, 7 different life stages

TOTAL = 136 lots of 687 specimens

Purpose: Lab use in Special Topics: Fish Biology (EBIO 4460/5460) course, Fall 2010; Instructor: David Stock; TA: Marcus Cohen

Location: MCOL Teaching Collection (E290) with weekly transfers to Ramaley Biology classroom N1B76 (for labs and temporary storage)

Transport the specimens with special care. Keep them submerged in 70% ethanol in the original containers. During class specimens can be taken out of jars, but they need to be kept moist with same ethanol solution (ideally overlain with ethanol moistened paper towels). Please put specimens back in container as soon as possible to eliminate air drying. Please do not use of water in place of 70% ethanol. The instructors may dissect larger-size fish to a small extent as far as they maintain their physical integrity. Please keep specimens in a locked fireproof cabinet while not in use.

Total No. Specimens: **136 lots (687+ specimens)**

INSTRUCTIONS TO RECIPIENT:

Loans are made for six months unless stipulated above. When returning material, please mention the original invoice number. Types sent on loan must be returned by Registered Mail or UPS.

Received in good condition by:

Date _____

PLEASE SIGN AND DATE