

Fishes



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1. 2. 3. mackerel, purchased in the market at
Teneriffe, Canary Is., June 9, 1909. There
were many of this kind on sale, and also
2 or 3 large fishes, at least 4 feet long.

with small dorsal

and

Mr. Nichols.—

4. 5. 6. sm

Is., June 9, 1909.

7. 8. ma

Is., June 9, 1909.

or

spe

medium sized

9. ma

o. 7.

Thank you
kindly.

10. ma

M.L.E.

Is., June 9, 1909.

11. ma

Is., June 9, 1909.

12. ma

Is., June 9, 1909.

13. market, Teneriffe, Canary Is., June 9, 1909.

1. 2. 3. mackerel, purchased in the market at
Teneriffe, Canary Is., June 9, 1909. There
were many of this kind on sale, and also
2 or 3 large fishes, at least 4 feet long,
with the same numerous small dorsal
and anal fins (Dunno?)
4. 5. 6. Market, Teneriffe, Canary Is., June 9, 1909.
7. 8. market, Teneriffe, Canary Is., June 9, 1909.
A number on sale. We took medium sized
specimens. Watercolor of No. 7.
9. market, Teneriffe, Canary Is., June 9, 1909.
10. market, Teneriffe, Canary Is., June 9, 1909.
11. market, Teneriffe, Canary Is., June 9, 1909
12. market, Teneriffe, Canary Is., June 9, 1909
13. market, Teneriffe, Canary Is., June 9, 1909

14. 15. Market, Freetown, Sierra Leone

June 14. 1909. Color, belly white, sides
silver, back dark gray. Iris silver.

16. Matadi, Congo Belge. June 28. 1909.

Dropped by a vulture.

17. Near Kwamouth, Congo Belge, about
July 15. 1909. General color, silvery, 8
dark stripes on each side. Tail rosy, post-
erior border blackish. First dorsal fin
rosy, second dorsal black. Pectoral and
pelvic fins yellowish. Anal fin yellowish,
red at tip. Iris silvery with a reddish
tinge above.

This fish was brought to us, on the
steamer, by a negro. It had evidently
tried to swallow a small fish with
very sharp pectoral fins, and this little
fish was still in its mouth, with its
two spiny fins sticking thru holes
just behind the larger fish's lower jaw.

18-19 Mistandungu, near Bolobo. Congo Belge

July 16, 1909. General color silvery, the posterior edge of each scale with violet iridescence. Fins grayish. Tail grayish, a longitudinal black mark down the side. Iris silvery, with a reddish tinge above.

About ten of these little fish were swimming about in shallow water, & I shot two of them. Their tails were frayed out, possibly from disease.

18-20 July 27,

July 27,

~~near Bolobo~~

two small fish like the one swallowed by no. 17. general color dark brown with darker markings irregularly distributed. Anal fin yellow base near its base, also dorsal fin.

in the larger specimens, anal fin with anterior dark trace of yellow at its base, below the mouth

whitish rest a trace of pink.
iris above dark below with a few white spots larger specimens were seen about 10-12 mm
long.

Befriens

No. 31. 1

near Brooks 5 small fish (2 different) caught
July 20/09 at dusk in the evening -
no colors - were put in
No 22-27 alcohol at once.

Stanleyville a number of small fish
Aug 21/09 they were brought to us in
No 28. the evening - no colors - were
put in alcohol at once
Lent - tube No 28.

N'gaya 1 Polypterus caught
Dec 9/1909 on the N'gaya - river
No 29. in a fish trap. The
skull has been damaged
by the native fishermen.
Dec. 25/09, polypterus caught by
No 30. the same netters.

Batwabata Dec. 29. catfish: above gen.
No 31. col. gray with a slight greenish
tint, punctuated with blackish
irregular markings, ventral
side pinkish white as
pelvic and pectoral fins.
The anal fin on its base

No 32.

Bafnaboka Dec 29/1909.

No. 31. pinkish, the rest pinkish gray. Caudal fin grayish (light colored) the edge of the caudal fin is salmon red, dorsal fin same color as body above (gray with a slight greenish tint), but with lighter edge. Tentacles: of the upper ones grayish the lower ones pinkish. They can be straightened to the very tip when the fish is alive. Around the mouth and sides approach a light red. pupil somewhat elongated iris outside grayish, towards pupil a large silvery tint ^(very yellowish white) off set by gray rays. Caught by a native fisherman in the Neptob River.

No. 32. cat fish, same size, same color, caught in the Neptob River. ~~meatless~~

Balneaboka Dec 29. 1909

Medje
No 35.

No 33. small fish, with long spines,
all of which are curved forward,
can be straightened to the
very tip, above & medium
brown, with darker markings
not many whitish yellow
spots, ventral side yellowish
white, near pectoral fins
bluish white, lower jaw
pinkish with black. anal
fin has a brownish ^{the gelatinous} edge. X.
The central dorsal & pectoral
fin brownish like body.

No 36.

Only the two lower middle
lunules are light gray
the others brown, dorsal &
the visage yellow brown. The
natives always cut the free spines
of the pectoral fins, as they are
afraid to injure themselves.

May 20/10
No 37.

No 34. small jar containing a
number of small fishes.

May 20/10
No 38.

May 20/10
No 39.
40-41.

Medje. Jan 24/1910.

No 35. 1 small fish general col.
dark gray, front pinkish
on the sides somewhat
pinkish. Iris silvery.
fins deepest. on both sides
of head below and above the
eye pale yellowish

No 36. 1 long fish. gen col. above
brownish mottled with
pale yellow, lower side
pale yellowish.

No 35 & 36. have been
May 20/1910 caught in the Neva

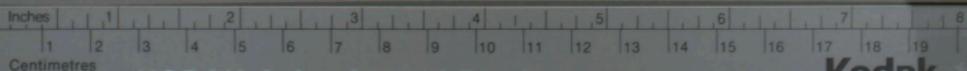
No 37. 2 small fish, caught in one
of the affluents of the
Neprka-River - in a test-tube
May 20/1910 with alcohol.

No 38. a large fish - puffer - taken in
the Nelle. - They natives said
that only the older people eat
the fish after having it skinned.

No 39. Three surgeonlike small, slender
40-41. fish - from the Gada or its affluens

Niangara Nov. 1910.

- No 42-43-44-45-46-47-48, ~~Sept~~
small fish from the Gada or
its affluents.
- No. 49 - 50 - 51 - 52 - 53. - from the Gada
five small fish with dark ^{red} bars
that show a roundish enlargement
in the middle of the bar.
- No. 54 - 55 - 56 - 57 four small
fish that show faint gray bars
(vertical) g -
- No 58 - 59 - 60. three small fish with
a broad horizontal dark gray
marking
- No 61-62 two small + (one very small)
catfish-like fish.
- No 63-64. 2 small fish - big headed with
canal fin directed downward.
- No. 65-66 two small fish. - large scales.
all the above fish from No 49 to 66
are from the Gada River.
- No. 67-68-69. three fish taken in the ^{on back} trans-
ser. col. short. greenish brown
with many irregular dark



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W 70-17 two feet, taken in the Dungeness

Orange Jan 20/1911.

No. 70-71. general color on back dark purplish gray, but the back is covered by a pale yellowish shiny surface which changes the tint more to yellow. Sides purplish gray passing over to purplish and white on the ventral surface.

The head above pale greenish yellow, the sides purplish dotted with minute dark purplish gray spots. The lower jaw on the tip ^{greenish} yellowish, rest below otherwise whitish.

The whole fish is covered by a shiny skin which covers even the eyes; the iris is only silvery gray with darker edge. The pectoral and ventral fins are pale at their base a small portion near the middle shows yellow tint, ^{near} the tips ~~yellow~~ whitish, the edges gray. The caudal fin



near the anterior base pale gray, the rest dark brownish with grayish edge. The caudal fin dark gray, the dorsal fin anteriorly yellowish posteriorly brownish.

No. 72-73. Two large fish, from the Congo.
above dark gray with a very pronounced
tinge of purple towards the second
dorsal and caudal fin, on the
pale greenish yellow with
a large dark area from behind
the head to the middle of
body ventral side yellowish
or rather covered to with
a yellow silvery surface
There is a dark area above and
in front of the ventral fin
The head as well as the fins and gills
are covered (like the whole body)
with a yellow silvery that
produces a greenish brown
cast, on the sides of the head

orange Sam 30/1916.

No 72-73. On the area behind the head situated between the projecting bony plates, the area behind the first dorsal fin, across and somewhat below the second caudal fin, the sides near the tail are ^{marked} ~~coated~~ by irregular darker spots. The iris is brownish with brown ring about the pupil pale gray anterior edge similar to preceding, ventral side above dark gray on the ~~irregularly distributed~~ rest is much white between the dark gray, the ventral side is whitish. The head above dark gray, but it appears yellowish as it is covered with yellow slime. The mouth is pale yellowish the barbules are darkish, light near posterior. The pupil is vertically slightly elongated, the iris about..

No 74. 1
No 75. 1
No 76. 1
No 77. 1
No 78. 1

The pupil whitish passing gradually over to the dark gray

Frangipani Jan 30/1940.

No. 74. color near the edge; the pectoral fins near their base ^{below} whitish above darkish the ventral and anal fins are much paler near the edge. The caudal fin pale gray with dark spots.

No. 75. a large flat fish. The back is dark brownish as the upper surface of the head; the head above near eyes slightly yellowish, the mouth above grayish, the sides silvery, below which the iris silvery, yellowish above the pupil (^{irregular}) in the upper third. In eyes above gray with darker ^{irregular} stripes below whitish, the hind, less pronounced, the sides show ^{more} metallic silvery luster, the ventral surface is whitish. The fins are at their anterior edges brown.

Kunyu Jan 30/1911.

No 75. otherwise grayish with
lighter edges.

No. 76. small fish, back above dark
brown sides grayish, dark
gray irregular stripes, ventral
~~surface~~ whitish, the scales
near the edges lighter on account
of the minute spiny edges. No
silvery reflections except on
sides of head and ventral surface.
The gills are very white.
The ^{first} dorsal fin is darker in the
middle. The pectoral fin posterior
near its base otherwise colorless
like ventral fin. The anal,
caudal and second dorsal
are grayish with a tinge
of green.

No 77. small fish back greenish gray,
sides above dark gray, below
whitish, a blackish area
near the caudal fin ventral
surface whitish, strong

No 78.

silvery metallic reflections. Head above brownish on the sides silvery, below pinkish. The second dorsal at base dark rest reddish, the caudal and anal fins pale yellow, the pectoral fin, near base pinkish, the rest colorless as ventral fins. The first dorsal dark anteriorly, a fringe of yellow near edges. The iris silvery white with exception of the upper one third which is yellowish.

No 78. Large fish, above head and portion behind the dorsal fin dark gray, behind head to dorsal fin greenish brown, the sides dark greenish indeed with light gray and the vermilion spots, near the caudal fin and towards ventral surface

Brown Jan 20/1911

No 78. ^{most} palegreen the ventral
surface whitish. The head
above dark gray covered with
slime, the throat above
dark gray in front pale gray
below yellowish, the sides
^{as} near gill covers silvery greenish
below the eyes one or two
dark purplish gray areas, below
whitish Iris silvery white
the pupil is surrounded by
a yellow red diffused corall
the upper third is also yellowish
red. The caudal fin near
its base grayish green and
matured of carmine red
the pectoral fin near its
base below whitish only
edge carmine, above near
base purplish gray and
passing over to carmine
ventral fin near base below
whitish with a trace of yellow

No 78. passing over to gray and then carmine, the same gill above anteriorly dark purple & gray, posteriorly near base pale yellowish the edges carmine, the anal fin near base whitish passing over to carmine.

The caudal fin pale rose near base, passing over to carmine, all the fins the long rays are lighter the fins are bounded by short small fins above and sides nearly bluish, ventral surface dark grayish it looks so if the whole fish was covered with yellow slime that has been washed off. Head above dark brownish gray in front of eye and lower lips yellowish below whitish; the fins dark gray

No 79.

Dinoges Jan 30/1911.

No 79 species considerably larger
iris about eye light gray,
a dark gray diffused cinctile
more predominant in the
upper third, the edges light
gray.

No 80. A small young fish. above
dark brown, sides silvery
purpleish towards the tail,
ventral surface, silvery
white. Head above brownish
sides somewhat silvery
below white, first ^{and second} ~~and~~
~~black~~ dorsal fins marked
with black about the gray
pectoral, ventral and anal
fins a trace of yellow
below, above grayish.
Iris silvery, ~~the~~ upper third
dark. barbules dark gray
throughout.

No 81-82 two small young fish
head above brownish, with

small yellowish area (in front) between the eye, lips, and underside of head pale yellow. whitish spots all over the body. The same fins are striped white. There is the area from the first dorsal to the anal fin brownish & the dark yellowish or brown strong yellow tints. The ventral surface silvery white with dark irreg. markings. The bases of the ventral and anal fins are yellowish. The iris a very gray, with upper third darker. The smaller sample has the head yellowish with exception of a brown area below the left eye and brown upper portion ^{of head} from between the eyes backward some of the spots are somewhat yellow.

No 83. medium sized fish back brownish green passing over to the very white, ventral surface silvery white, on the sides ^{and underneath} strong silvery reflections. The first dorsal fin near base brownish yellow, rest somewhat pinkish second dorsal same color caudal fin pinkish on the sides rest caudal fin a dark area. ~~glossy~~ Iris above strong yellowish diffused towards lower portion. pupil slightly elongated below.

No 84 - 85 two somewhat flattened fish

No. 86. large fish with dark bands across body, rose caudal fin, one specimen about 8cm larger had swallowed

14 small fish, was good eating

No. 87 - 88. Two small fish, somewhat flattened, dark crosswise bands all the fin reddish especially on edge.

No. 89

No. 90.

No. 91.

No. 92-93

No. 94

No. 95

- No. 89 one ^{med} brownish on back
sides lighter.
- No. 90. one med. sized. fish. dark
brown. green above
silver on sides, white
ventral surface.
- No. 91. 5 small fish dark green. gray
above, sides spotted with
black, iris silvery.
- No. 92-93, 94 ~~two~~ ^{three} small fish light green
gray above, sides silvery,
ventral surf. whitish, a
dark spot near caudal fin.
another somewhat behind the
red along the side. iris silvery
above yellowish.
- 95-96. two small fish, somewhat flattened
laterally pale grey above with
slight greenish tinge, silvery.
sides white ventral surf. iris
silvery upper portion reddish
small fish above dark brownish,
sides silvery with dark red
markings, ventral fins yellowish

Dungen Sun 30/1910.

No. 97 markings. caudal fin has much red. iris silvery upper portion reddish. sharp teeth.

No. 98. small fish; above light grayish green, sides silvery with darker median line, ventral side whitish. iris silvery upper portion dark gray. first dorsal fin somewhat yellowish.

The fish from No. 67 to No. 98 were measured by Mr. Miller Ribotti, Chef de Zone de Gourbie - Dungen. Twenty two species, taken with tomite.

Paradise Feb 8/1911

No. 99-100-101-102-~~103~~ 104 large, one medium and a small extremely black dark green. gray in front of end on the sides ~~and~~ dorsal fin, the scales show distinct blue reflections. On the sides

Paradise
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No. 100. S.
No. 101. S.
No. 102.
No. 103.
No. 104.
No. 105.
No. 106. S.
No. 107.
No. 108.
No. 109.
No. 110.
No. 111. S.
No. 112.
No. 112. S.
No. 113. S.
January - April
No. 114. L.
155.
Feb 8/1911
No. 156. C.
di
pa
as

Paradje

No. 99. Skeleton of a Cat-fish (124 cm. long.)

No. 100. Skull of Cat-fish (Same species as preceding)

No. 101. Skeleton of a Cat-fish. (127 cm. long.).

No. 102. " " " " (105 cm. ").

No. 103. " " " "

No. 104. " " Polypterus.

No. 105. " " " "

No. 106. Skeleton

No. 107. "

No. 108. "

No. 109. "

No. 110. "

No. 111. Skull.

May 1912

No. 112. Skeleton of a large fish (111 cm.) with extremely large sharp teeth.

No. 113. Skeleton.

January - April 1912.

Nos. 114 to Polypterus.

155.

Feb. 8. 1911

No. 156. Back dark greenish gray, in front of and on the sides near the dorsal fin the scales show distinct blue reflections, on the sides (upper portion) same color but considerably lighter; seen from in front the scales show soft blue

Faradje.

Faradje.

and green reflections, the lower portion of the sides becoming nearly whitish toward the ventral surface, with slight greenish reflections; ventral surface whitish. Head above greenish gray, considerably lighter at the rugosities, in front pale grayish blue, below whitish, with gray in the gill openings, at sides soft green with some bluish reflections. Iris dark gray, with an indefinite silvery ring about the pupil. Dorsal fin grayish green with pink at the posterior edge just below the prolonged rays. Caudal fin grayish green above, elsewhere purplish red, below nearly brown. Pectoral fins greenish gray above, with reddish at edge, a darker area on frontal half. Ventral fins above pale green, with only a slight grayish area, and lighter below. Anal fin pale greenish gray with pinkish at edge.

No. 157

to No. 204. Fish from neighborhood of Faradje, collected mostly during the first four months of 1912.
nos. 205-206. Two large fish, Faradje, March 1912.

No. 207 to 210.

No. 211 to 219.

No. 220 to 224.

No. 224 to 250.

No. 251 to 2.

No. 253 to 2

Y

No. 265 to 29

No. 299 to 3

No. 341 to 3.

No. 357 to 3

No. 381 to 3

No. 399 to 4

No. 425 to 4

No. 434

No. 441

No. 435

Paradje.

nos. 207 to 215. Polypterus.

nos 216 to 219. Catfish.

nos. 220 to 224. Fish with elongated trunk-like snouts.

nos. 224-250. Fish.

Nos. 251-2. Fish from Paradje. Sept 10, 1912.

Nos. 253 to 264. Small fish from Yakulukku River at
Yakulukku Post. November, 1911. (in alcohol jar)

Nos. 265 to 298. Fish from Paradje, Feb. 1912. (in alcohol jar)

Nos. 299 to 340. Fish from Paradje. Feb. 1912. (in alcohol jar)

Nos. 341 to 356. Fish from Paradje. Feb. 1912 (in alcohol jar)

Nos. 357 to 380. Fish from Paradje. March 1912 (in formaline jar)

Nos. 381 to 398. Fish from Saramba, ⁷ March 14, 1912 (in alcohol
jar)

Nos. 399 to 424. Fish from Saramba River, near its source

March, 1912 (in alcohol jar)

Nos 425 to 433. Fish from Vanleerckhovenville. Apr. 1912 (in alcohol
jar)

No 434. medium safety-valve jar - Respiratory

organs of a large narrow-headed

calfish. See shall ⁷ (real is later

a complete skeleton of a larger

specimen) Photograph of fish.

test tube - small elong. fish

from the Jorambe River

Sept. 1911

Paradise. Feb. 29 / 1912 - March 1912
No. 436 - 437 The two smallest Polypterus
showing the external gills. These
& all the others have been
taken by natives in quiet
places in the Yangtze River.
They only can be coll. at this
season (dry season, Dec to April),
when the waters are very low.

No. 438. ♀ Polypterus.

No. 439 " "

No. 440-441-442 three small fish from
the Tungn An.

No. 443. small fish "

No. 444-445-446 three small fish. Tungn An.

No. 447. ♀. elect. cat fish.

No. 448-449-450-451-452. five ♀ fish "

No. 453. ♀. fish.

No. 454. fish from Tungn An. 1/21/12
a silvery sheen throughout was
on the back & crown dark greenish
with blue reflections, on the
side silvery white, on ventral

surface silvery white with some
pink reflections. The fins
transparent gray except the
ventral fins which are whitish.
This above dark gray in the
middle yellowish then ^{indistinct} whitish
silvery with a darkish spot
marking just below the slightly
elongate pupil. Some
natives tried to catch these fish
with nets, each time they pulled
the nets toward the shore, these
fish would leap about 4 feet
beyond the surface of the
water after they could not get a single
one. Common close to the boulders
in the river. Photographs

No. 14
No. 455.

10/19/12
from
mouth
of river
375cts long.
fish from the Trujillo River above
dark green becoming lighter
towards the sides of upper
part of snout. silvery gray
on sides. The lower part
of head including the ~~stomach~~ 57

455

forage Nov. 14, 1912

455. grayish & silvery. fins grayish
greenish with pinkish base
yellowish ends. pinkish
near gill covers. Iris pale
yellowish silvery with grayish
fins above & behind.

No. 456. The same fish as preceding.
photograph - Tl. straightline
= 37.5 mm.

No. 457. fish from Dongu. Above
gray yellowish green, head
which darker, sides silvery. 457
gray with pink sides
of head grayish dotted
towards the pinkish white
underside. Iris gray finely
dusted with black. Head & back
covered ^{as well as} with eyes covered
with a transparent skin
fins greenish brown
Photographed with No. 458
on the same plate

✓ Farudge Nov. 1912
No. 458 fish from Brugue, mouth
down. Upper side grayish brown
head darker, back with ~~dark~~^{dark} reflections. Sides silvery with
~~dark streaks~~^{dark} brown reflections. Ventral
surface whitish. First dorsal fin
transparent gray with irregular
dark markings. Second dorsal fin
dark gray. Caudal fin ^{upper part} transparent
pale grayish green. The post $\frac{2}{3}$ of
of the lower reddish. The lateral
ventral & anal fin colorless
transparent. Photograph with No. 457
from the Brugue. When
alive in a basin it would
spread the pectoral & ventral
fins always keeping close to
the bottom. Rabbits told us
it would feed on grass upon
the rocks submerged.

back dark grayish green nearly
black with bluish reflections
sides dull gray silvery with
brown edges of scales. sides of head



Jan 19 Nov. 1912

459. grayish blue. Iris dark brown with a yellow ring about the roundish pupil. Dorsal fin gray transparent rays dark in patches with the posterior deepest. caudal fin brownish with a trace of red. pectoral fins above dark grayish green, below fin above center back lighter back pink & vent. fins below light greenish & gray.

Nov. 17.

No. 66.

2 Photographs
flat fish, with ~~entire~~ almost entire scales. back & crown dark grayish green, sides near back bronzy with blue reflections lower portion of sides silvery with blue reflections. some golden on lower part of ~~gill~~ cheeks. Iris extremely speckled with dark gray. fins dark gray caudal fins somewhat pinkish. 28.5 mm long

January 20, 1912

No. 461 nearly the same as No. 459
but no upper prolongation
of the dorsal fin.
above dark grayish green with
bluish reflections, above
coppery half of sides some color
lower " " " silvery
but all scales with a pink
cross stripes. ventral surface
whitish. roundish
fish with teeth on mouth
mouth opening below.

No. 462 Photograph on same plate
as No. 461 + 36 cm long.

No. 462 fish with spiny dorsal &
pectoral fins. Caudal fin
whitish with black markings
bordered with pink.

Bony plates ^{above} gallinaceous
brown sides grayish
above blue reflections
below silvery reflections
photograph on same plate as
No. 461. 225 cm long



found Nov. 1912.
No. 463. Blk fish with prolonged snout.
black dots greenish blue
with golden reflections
on sides on side of head
light gray mouth
grayish white ventral
and belly. purple gray
pectorals & ventral fins,
dorsals bluish gray.
48 cm. long.

Dec. 1912. photograph (alone.)
No. 464. Momyrus 36 cm long
long photurid appendage
below the mouth, see
colored drawing

No. 465. same as above

Dec. 1912. Momyrus elongatus (265 mm)
no prolongation on mouth.

No. 466. no prolongation on mouth.
damaged dorsal fin (anteriorly)
photographed on the same
plate with No. 467. 9473

No. 467. scaleless fish dark olive
brown with blue reflection

Paradise 1912 Dec

No 467. gradually becoming silver
gray on sides, silvery
white on abdomen.

Had eaten several small
wild figs & several grasshoppers.
(There was another specimen
which was damaged & was
opened to see the contents of
stomach.) Photograph on same

No 473 plate with No. 466 & 473

No. 470. 468 469 three small fish
with spinules small sucker-like
mouth, black line on the
forked tail. The largest one
(200 mm long) yellowish on
ventral surface, the smaller ones

dirty yellow brown next brownish
with yellowish markings
on sides, dark on back,
dark iris. Caught ^{water} among
the rocks upon the riverbeds
are growing. They are said
to grow under lichen. Photograph
on same plate with 472.

Fore-edge 1912 see

No. 471. A small spring fish, with hardly
serrated spine of pectoral
fin, small suckerlike mouth,
from small filaments below
mouth. Two large long filaments
at corner of mouth.

Was alive, jumped out of
the dish of water, died a few
hours afterwards though he
was put back & seemed
to be apparently unharmed.

He always kept close to the
ground keeping his appendages
in continued movements

No. 472. small spring fish ^{15 mm long} with a large
mouth surrounded by a
large anchoring apparatus.
Inside of pectoral spine
heavily serrated. The spines
directed forward. A brownish
read the body was a diffusion
of brown, yellow & green.
Photographed with No. 4689469
on same plate.

faradze 19/2 bec.

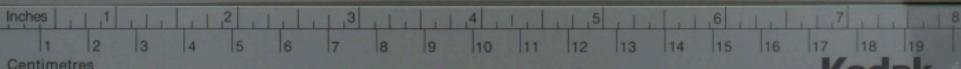
No. 473. A long snout rounded post of pale grey, transparent appearance with a curious opening mouth. see photograph on same plate with no. 466, 467. Said to be full grown. 87 mm long.

No. 474 Slender fish with large teeth on the edge of mouth, back med. brown, with somewhat lighter snout & blue silvery reflections, sides yellowish elong. whole body with dark spots above (diffused) & anteriorly. The round pupil surrounded by red. first dors. fin pale transversely brown edged with red, second (small) dors. fin black with transverse base, caudal fin base in the middle dark ^{upper half} transparent brownish with broad red edge & fine terminal black edge. lower half below as transparent.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Parade 1912 see
gray edge the rest bright red
(coloration) The pectoral,
ventral & anal fins have
transparent gray at base
orange orange at the tips.
Photograph on the same
plate as No. 475. Length 27 cm

No 475. A flat fish with continuous
dorsal fin. ^{Two appendages} Pectoral & ventral gray
with greenish arranged longitudinally
near ventral side whitish, the
whole with silvery reflections
The dorsal fin transparent
gray with bright blue
reflections on spines & bright
mottled red longitudinal
markings. Caudal fin grayish
edged with red on lower
half. Pectoral fin transparent
gray. Ventral & anal fins
pale bluish gray. The former
with red between the inferior
spines. Behind the head a



fore edge 19/12 see
dark yellowish grey below
in front of eyes dark gray.
sides silvery gold. covers
yellowish. some red markings
between ventral & pectoral fins.
photograph on same plate
with no 474. Length 19.2 cm

No. 476 mormyrus, small 26.5 mm.

Photo No. 477 mormyrus, slightly prolonged
snout, dark greenish with

Photo. brown 26.3 mm long.

both 467 - 477 on the same
plate (with cover of Kodak tube).

No. 478. same as 474. see color drawing
in formal. (bank)

No. 479. same as 467. had eaten 5 small
fish, a bubble., see color drawing
preserved as skeleton

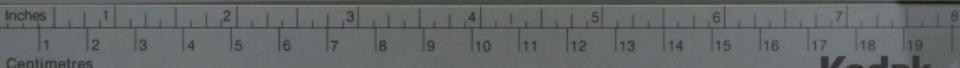
No. 480. small mormyrus with long
trunk, in formal. 18

No. 481. Cephal. 26 cm long. (like the
large on photograph)
photographed alone.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Brady Dec. 1912
20482 *Muraenagracilis* - 44 cm.,
small heavy protuberance
below opening of mouth
(photo with 50s.) ^{above}
20483. small puffer & dark greenish
brown with yellow striation
below yellow near breast lighter
caudal fin yellowish & brown
others transparent. It is 11 cm.
long measures in normal
condition 2 cm. in diameter
but blown up 5.2 cm. When
it is taken it often opens
the buccal orifice and
at through the mouth. Its
pectoral fins are moved
very rapidly in undulations
when in the water. It
makes a snapping noise with
its teeth. It can instantaneously
take normal condition, but
inflates only gradually.
It changes considerably its
color & may become a

38



June 26, 1912.
No 483 dirty yellowish gray with few
reticulations only slightly
indicated in formalin jar.
The two small protuberances
near nostrils are pointing
in upward directions when
swimming. The caudal
fin is mostly contracted but
may be spread. The iris is
brown with golden yellow
ring about the slightly elongated
pupil (in horizontal direction)
carp fish with spiny dorsal
pectoral fin, prolonged second
dorsal. Above dark brownish
green ~~discreted~~ in patches
on sides were the pale creamy
color appears as reticulations.
Caudal, etc dorsal dark greenish
brown with pale reticulations
below pale bluish white.
Fins dark brown with pale brown
ring about iris
photographed alone on side of a box.

Inches	1	2	3	4	5	6	7
Centimetres	1	2	3	4	5	6	7

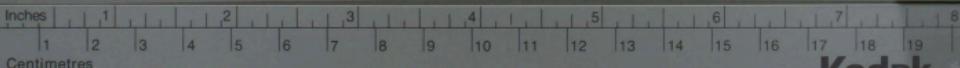
KODAK Color Control Patches

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Kodak

- July 1912
- No. 485 longe dec. 1912
fish similar to colored drawing
back ochreous brown, sides
turning over to silvery white
a few patches of red on
scales. g. golden side of gill cover,
no ventral fins, caudal fin
wine red. Photographed
with rest No. on same plate.
- No. 486. fish, flattened with small
dec. 4 mouth below. Phot. art. to 485
- No. 487. fish roundish, resembling
somewhat *Polypterus*,
all colored drawings
- No. 488. same as above all red. photograph
- No. 489 had a capstone / argulus /
see cat. On board with No. 491. (Art. 1914)
- No. 489 - 490 - 491. tree catfish with
spines. The natives catch them
by baiting fishhooks with pieces
of worms, ^{upper end} *Frenulum* in *tail*
one kept standing sideways
or backwards, the two longer
ones below stand out horizontally.

40.



parade Dec. 19 12.

in front, the other two hanging down. We kept them for an day in a tank with tadpoles. They came to the surface gas the tadpoles were playing about their bubbles. They were sucking them in, many of the tadpoles invariably escaped. Were taking in the head first, once set firmly their spring pectoral & one anterior dorsal fins, moving the pectoral fins to & fro with a rasping noise (fairly loud). They dry rapidly, so they are remarkably active & much feared by the natives who always cut their spines when catching them. Usually the keep flat on the bottom with pectoral fins extended, the anterior dorsal fin usually leans backward. All these catfish are covered when alive with

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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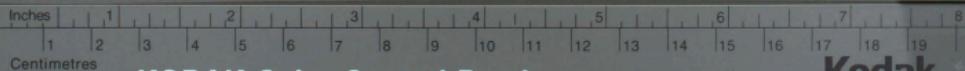
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Parade Dec. 1912

493
A thick slime (just like that
excreted by slugs & snails)
They are liable of changing
their colors tremendously
from dark greenish brown
to a pale yellowish green
No dark pattern frequently
disappears, the fish taking
now a practical uniform color
~~When exposed to the sun~~
~~they turn light either in~~
~~the dark or in perfect sunlight~~
~~so this change of color seems~~
~~not to depend on the condition~~
~~of light but rather on physiolog^{ic}~~
~~conditions~~

492 497
492 small opening cleft above : -
medium silvery brown
gradually turning silvery
white, this translucent
colorless at edge of mouth
& barbules.



for J. G. B. - 1912.

493 flat fish greenish brown
above, whitish silvery rear
sides. Photographed alone.

No 494 + 495 two more young
Photo on one plate (both)
494 long snout & 12 small
teeth, 495 short snout with slender
prolongation

No 496 - somewhat flattened fish (scaled)
like others of the same species
but had no red caudal fins
but grayish ~~yellow~~ lacked the faint
blackish transverse markings
of mesobranchs, slightly different in general
shape.

No. 497. flat scaled fish ^{strongly} combed at
edges. General color silvery
green, many of the ~~gills~~ with
dark gray pattern at
edges, back dark or
red. Brown. Common
in schools of fifteen
to thirty.

see 586

587

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

KODAK Color Control Patches

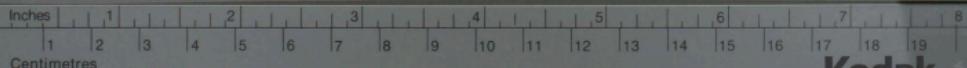
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Java Jic Dec. 1912.

498-499 two small moray eels
28 cm & 24.5 cm long.

- 500 fish with teeth, like picket
28 cm long photograph below
back dark brown with beautiful
emerald green reflection especially
on the somewhat paler sides
ventral side whitish silvery
first & second dorsal caudal
anal fin med. brown dotted
with dark brown. Gill covers
silvery & green reflections
Iris dark brown with
silvery edge except posteriorly
~~where~~ this edge is lacking
no 501. large flat fish with small
teeth 51 cm long. fins dark
blue col. under surface white
back & sides greyish with
silvery blue & purple reflections
top & sides of head dull dark
greenish, gill covers silvery
with pale purple reflections
Iris dark brown with some



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foradje Dec. 1912.

No. 501. red above.

Same fish as photographed
that was 56 cm long.

Evidently swimming in
schools as five of them have
been killed by one explosion

✓ No. 502. flattened fish with pointed
Photograph head, 7 bands bluish & dark
see colored drawing.

✓ No. 503 9504. fish similar to above
slighter, but throughout
darker in color, the latter is
27 cm long & photographed with No. 506 & 507.
on the same plate.

No. 505 & 506 two flattened fish,
for col. drawing silver, with black spot
below dorsal & black base to
caudal fin. 16.6 cm long
photo with no. 504 & 508.

No. 507. long rounded fish (moray)
Photo gen. col. pinkish gray with
ring of brown. On top
of side of head lines of greenish
brown & yellowish (pale) shade brown
from eyes. Photo with no. 504 & 506.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

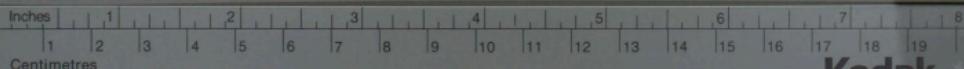
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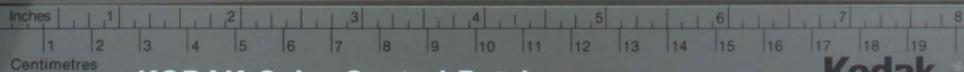
Paradise Dec. 1912.

- No. 508. f 509 two mormyrs $33\frac{1}{2}$ ctm
mm. 510. 929 ctm long. The two largest
Photos. onto on the photographs of eggs
- No. 510. mormyrs the third largest
mm. 511. 24.5 ctm. long on same plate.
- No. 511. mormyrs 23 ctm long.
the darkest of all same plate.
- No. 512. mormyrs 18.5 ctm long.
mm. 513. roundest snout - ^{longing towards} same plate.
- No. 513. mormyrs 14.3 ctm long
mm. 514. roundest snout - ^{int. longing towards} same plate.
- No. 514. mormyrs - slight prolongation
of lower lip 16.5 ctm long
same plate.
- No. 515. same as above but more
roundest profile - same plate.
- No. 516. 517. 518. 519 mormyrs like
No. 510.; the longest 21.5 ctm.
the smallest 10 ctm long.
- No. 520. a sucker - 16.7 ctm long.
- No. 521 small mormyrs; with small
perturbation on downward pointing
snout. like No. 519. 520.



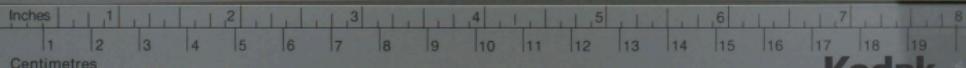
forage Feb. 19 '12

- ctn. 522. mormyros - like no. 512
layda 523. 16.2 cm long & 13.2 ctn.
ugle No. 524 + 525. mormyros like no. 513.
gut roundish profile without bulging
cover lip. 13.5 & 9 ctn long.
No. 516. mormyros like no. 509
but smaller. 21.5 ctn long.
- 509 & 526 have a more
slimy profile than no. 508.
No. 527. mormyros long snout
short protuberance below
38.5 ctn long. a purplish
blaze above, with yellowish
slime at certain places
purplish gray towards & on
lower side.
- ✓ No. 528. small fish. 11.5 long large
scales upturned snout,
large eyes, yellowish above,
black markings on sides towards
tail.
- 529 - 530. two young polypterus with
external gill covers 97.989 mm.



for edge Dec. 1912.

531. mormyrus 92 mm. long
532. a large containing twelve
small fish from the Branga R.
among them ~~two~~ young mormyrus
533. fish top of head dark green
sides of head velvety, vis
velvety tinted with red, rest
dark brown with blue reflections,
sides greenish-white with
indistinct bluish bands
ventral surface white with
velvety reflections all over fin
grizzled with dark spots, tail grey
postopular pale yellowish
pelvic and fins yellowish
tipped with light red. 32.5 cm long
See photograph with fish like
No. 502.
534. flat fish like No. 502 - 1
535. spiny catfish spotted
536. four small fish from the
Branga river, two of them
had red above on the eye &
a band on sides with golden reflections



Parade Dec. 1912.

No. 537, 538, 539. Krell Nomurae

purple & gray all over
except on belly where whitish
areas are common & about
head which is covered with
a yellowish slime
medium amount, prolongation
of the lower lip. The largest 34.5 cm.

No. 540. 541. 542, small flat fish, large
scales, somewhat upturned mouth,
swimming in schools med. brown
on back, sides silvery white
ventral side white, ^{med. brown} gill covers
silvery, top of head, with a
large of green. Iris pale yellowish
a dark blotch above & below
Edoral, caudal & anal fins transparent
pale yellow, dorsal reddish,
pectoral & vent. fins transparent
colorless. 18 cm long.

No. 543. 544. 545. 546. long slender conical
fish with pointed snout
small transparent pectoral fins

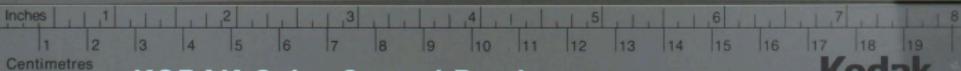
Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

KODAK Color Control Patches

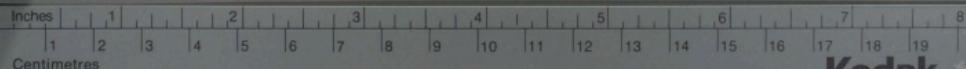
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Kodak

543. dorsal & anal fins meeting with
 to re canted irregular pattern
 546. of dark brown & ~~yellowish~~^{lighter} ~~yellowish~~^{purple} ~~purple~~^{blue} below
 on yellowish ~~yellowish~~^{greenish} ~~purple~~^{blue}
 the largest 18 cm long see
 photograph of tree.
- No. 547. 548. 549 three small polypterus
 all incl. the largest one still showing
 rudiments of the external gills - Tot. Length 10 cm.
- No. 550. small flattened compressed fish
 silvery throughout, light brown
 above.
- No. 551. 552. 553. 554. 555. five small
 morayines dark purplish, rounded
 snout & long conoid body
- No. 556. morayines rounded snout
 small
557. 558. 559. 560. four small flattened
 morayines, straight nose & mouth.
- 56a. 561. 562. 563. 564. 565. five small
 morayines flattened with
 prolonged snout & small
 soft prolongation on upper
 cover lip 145 mm. to 57 mm.



- forage Dec. 1912
- No. 566. small morning run flattish
with only a soft pedunculation
on lower lip.
- No. 567. small roundish fish with
warty snout (65 mm. long)
- ✓ No. 568. feeds small fish in
brown bottle.
- No. 569. Morning run, flattened
fish. 46.5. cm long
Photograph. with number.
- No. 570. 571. Two flattened slender
roundish fish with pointed
snout like No. 543.
- Jan 1913 No. 572, 373. two small Polypterus
with external gills.
- No. 573 (574) Morning run two small
specimens, flattened, roundish
head, bulging lower lip.
- No. 575. small catfish, spinous.
- No. 577. a small elongated catfish
with winglike pectoral
Photo ventral fins. Gen. col.
dark greenish above
pale yellowish on ventral
130 mm long. male.



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Kodak

forage Jan. 1913

No. 578. Norminus with movable 204
projection on lower lip.
When alive held out firmly,
straight, he seems to use
this process for roughening
either mud or the algae on
stones thus securing its
food. dark purplish
with green on the head
& back. two lighter bands
from between the dorsal
and anal fins 157 mm long.

No. 579 a small smoother 107 mm long

No. 580. 9581. two small Polypterus

with external gills 90 & 74 mm long

No. 582. flattened scaly fish with
prolonged dorsal fin
greenish med. brown above
silvery on sides & belly
with darker markings fine
on sides. ^{in patches} silver
with a trace of yellow &
slate gray on the upper side.
slightly upturned mouth 121 mm.
long

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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faradi Jan 1913.

No. 583 & 584 two cell like fish

when alive, the lantern in mouth slightly open, they only slightly curve the slender snout downward, but otherwise take always most graceful curves, the abdomen seems to keep perfect straight. The opercular fins are moved very rapidly when they advance & can give a forward direction. See in Testinal worms cat. of Invert. No.

One specimen opened had in its stomach several (3) amphipods, larvae. one 245 & 196 mm long.

No. 585. flattened large scaled fish, with upturned mouth like drawing 223 mm long

No. 586 & 587. two scaled flattened fish like 497

No. 588 anomalous, mouth undent strongly curved downward photograph 330 mm long

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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pridge Jan 1913

589 moray, a long protruding snout.

590 Photog app. 37.5 mm long flattened fish, with pointed head, bands across T. length 43.5 mm.

591. moray, short snout.

592. 593. two roundish fish 380 mm with curious mouth opening below like drawing see *polygala*.

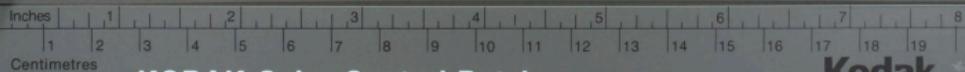
594. 594. two small fish like above, 135 & 145 mm long, back yellowish brown red above dark gray, sides yellowish except a dark gray longitudinal band in the middle dark near the tail.

595. 596. two small roundish fish., like polygala 145 & 155 mm.

597. a flat small fish. 105 mm. big

598. moray, short curved head / only slightly protruding snout.

- parade Jan 1913
- 599 small brown bottle with small
fish caught in swamps
600. test tube with various small
fish. numerous catfish & gourami.
601. fish, like photograph of large
fish, gen col. A dusky brownish
green, gradually becoming
silvery on sides & whitish
on ventral surface, fins
brownish, except the transparent
pectoral & the slightly browned
pelvic fin. sides of head
silvery with brown. Iris
brown brassy with yellowish
reflection. 42 cm long.
- No 602 fish skeleton of a puffer 26.5 mm
- No 603. skeleton of a polyphagus 51.5 mm
long
- No 604 fish skeleton of a spinous
catfish 200 mm long
- No 605. skull of a hog with sharp
teeth 67.8 mm long, see
several photographs of its
head, mouth open, half open, fully
open



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Jan 1913

No 606 sellike fish 30 cm long.

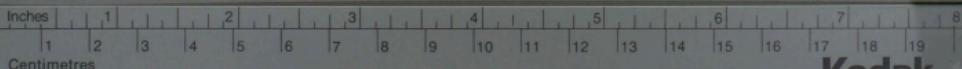
No 607 reticulated catfish

Photo on same plate with 608
250 mm long.

No 608 scaled fish with prolonged
no 609 dorsal & anal fin, short head
large eyes. brownish green
above & down to sides, ventral
surface whitish. crown
dark bluish gray golden yellow
greenish candlefin, bases
of dorsal fin dark bluish.
This golden yellowish Tl. 237 mm
Photo of tail elongate with No. 607

610. large catlike fish large scale
Tl. 755. through 130 height .245 mm
back & down the side dark
brownish green, sides pale
ventral surface whitish, side
of head grayish green, this brownish
base of fins beautiful emerald
green edges darker with touch
of greenish brown
~~Photo of tail & operculum~~
~~Same of tail & operculum~~

Photo
only.

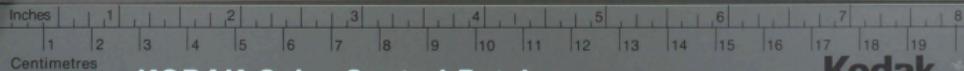


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- Paradise Feb 1913
608. 611. Calotroch. above a pale yellowish brown with dark spots some purplish on sides, ventral surface 287 mm long
Photograph with no.
612. 612. morayous with long curved mouth
613. morayous brownish, dry
614. 614. fish like No. 608 small.
615. 615. a comadiid fish resembling Polypterus.
616. 616. fish scaled, 140 mm long.
see Photograph, greenish brown above with blue reflections, sides becoming gradually ad�oy, with green & yellowish reflections ventral surface white with dusky fins transparent with darkish crown dusky with dark pattern sides of head silvery. Iris dusky below with yellowish edges dorsal fin prolonged posteriorly



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Kodak

- 1625
1626
- Jan 8 feb 1913
- 60617 & 618 same fish as above but not
prolonged dorsal fin, light
yellowish brown back, silvery
sides, 9 whitish ventral ampae
dorsal & caudal fins with yellowish
tufts, a lateral dark streak
from gills ^{back 112 mm long.}
- 60619 mormyrs
soft short process on
lower portion of mouth
TL. 390 mm Photograph.
620. mormyrs, roundish
head with protuberant skin
TL. 270. mm Photograph.
621. mormyrs, roundish
TL. 391 mm.
- 622 small fish reddish caudal fins
some red on dorsal & anal fins
iris whitish with yellow above
all watercolor
623. fish resembling above
- 624 but shorter & stouter with
yellowish tufts on caudal
& anal & dorsal fins, iris
yellowish white with red above
- 617
628
629
630 64. 65
64. 655
Phot.
64. 636

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Kodak

Sanjour Sept 1915

a shorter bluish slate very
caudal fin in the middle not
finely dotted spots along its
side! T.C.

No. 625 fish assembling above

No. 626 but longer caudal fins
yellowish on dorsal &
caudal fins. Iris whitish
with gray

627 mormyrus see photograph

628 " " "

629 " " "

630 to 634 five mormyrus, similar
to those above.

No. 635 mormyrus very long
curved snout dark purplish
blue nearly black back
with a dark green tinge

Photos see photograph T.L. 250 mm.

No. 636 fish scaled, up turned snout
caudal anal & I dorsal yellowish
transparent, & dorsal red.
at the back mid. brown, sides

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

p60

grayish; a black marking
with golden reflections on
base of tail. viss yellowish
with red above, ventral surface
flower portion of sides

Photo

✓ No. 637. silver. Tl. ³⁵ with ~~golden~~ reflections
scaled fin brownish back reddish
brown bottom; sides silver
yellowish; ventral surface
silver, dorsal and caudal
fin transparent with dark
gray. viss whitish with yellow
blackish bar across ventrally

Tl. 45.

No. 638.

same fish as 636. but dark
brown back, dark gray
irregular markings forming
a lateral band dark brown
viss with orange edge above

639. *Polyphorus*

showing still the indications
of external gills Tl. 200 mm

✓ 640. fish with rough protuberances
on mouth, yellow on sides

length
No. 641

No. 642

No. 643

No. 644

No. 645

No. 646

No. 647

No. 648

No. 649

No. 650

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Kodak

Bras de la Plata Feb 18/19/83

No. 641 *Mormyrops*, mouth curved
down.

No. 642 *Mormyrops* Tc 183 Photo -

No. 643 " 183 mm?

No. 644 " 194 "

No. 645 " 131 "

No. 646 " 152

No. 647 small fish with wide opening
oral flap & bent dorsal with yellowish skin
not with a sharp black 3 1/2 2 5

No. 648 slender and scaled just below

Tc. 83 mm

No. 649. catfish, dark greyish brown
whitish on abdomen
with pale reddish brown towards
anal fin, seven rows
of black dots running
transversal, besides
a few black dots behind
the snout

No. 650 4651 small flat bottle coat very
thin from a *Polypodium*

No. 650 in alcohol

No. 651. in formaline

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
KODAK Color Control Patches																			

Rungu May 1913

No. 652. *Mormyrus* with pointed head & a soft pointed ^{sharp} ~~sharp~~ prolongation, 25 mm beyond the lower lip. Top. length 39.2 mm without the prolongation on lower lip. Iris silvery Runga, fishes from the

Romokendi River.

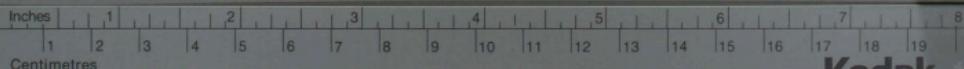
- No. 651 [♀] *Mormyrus*, elongated with mouth snout Tl. 487 mm
No. 653 *Mormyrus*, elongated with mouth snout Tl. 487 mm
No. 654 *perca* Tl. 223
No. 655 sort of a *mekorel* Tl. 268
No. 656 fish with upturned snout large silvery scales, broad longitudinal band Tl. 165
No. 657 a flat fish Tl. 170 mm.
No. 658. ~~40~~ 59 *Mormyrus*, small soft process on lower jaw, gen. col. silvery brownish green with golden reflections on back Tl. 220 g Tl. 170

Rungu
M. 663.

6661.

6662.

6663.



Omang June 27/1913

No. 660. *Mormyrus* with rostrum short
pointing downward TL 185.

No. 661. catfish, back purplish brown, towards caudal fin
purplish; crown brownish green; sides ~~yellowish~~^{diffused} diffused, lower sides
brownish & purplish, many ^{open} diffused small,
whitish yellow spots.
lower jaw purplish, whitish
silvery on breast
one of the barbules bifurcates.
TL 312

No. 662. fish with large scales & up
turned snout. TL 222.

No. 663. fish with short mouth & teeth
back greenish brown
sides silvery, ventral
surface whitish. caudal
fin purplish with dark
edge, pectoral & anal
fins transparent, no lobes

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Types

edged anteriorly with black.
Postdorsal pinkish on base
darkish on edge. Dors.

brownish with transparent
edge. Crown dark brown
with a few light brown
areas. Sides of head brown
with greenish & silvery
reflections below the eyes
silvery, throat pinkish
white. Iris a bluish black
with a fine golden ring about
the pupil (slightly elongated
downward). Ti. 234. Tag No. 58

No. 664.

fish with large scales

back light brown turning
to silvery on sides, whitish
ventral surface. Iris bright
yellow top above turning to
silvery below, pupil small
elongated downward. Tip of
snout above dark blue gray,
crown dark brown.

No. 665.

No. 666.

No. 667.

No. 668.

No. 669.

No. 670.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Ranque June 28/1913

Body brownish with puncta
on edges, caud. fin bright
pink fading away on edges
pectoral, anal fins
colorless (whitish) the
pectorals dorsally edged
with gray, below the eye
silvery, lower portion
of gillcovers pinkish.

Tl. 284. Height 69 mm.

No. 665. Polypterus tl. 432

No. 666. Perch - Tl. 185.

No. 667. scaleless fish Tl. 167.
freckled all over with
dark gray, with yellowish
& silvery tufts on sides
head dark brown also spotted.
tail dark gray

No. 668. fish Tl. 27 $\frac{1}{2}$

No. 669. small perch. Tl. 15 $\frac{3}{4}$

No. 670. fish, yellowish with
five (?) dark band &
red tipped tail

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

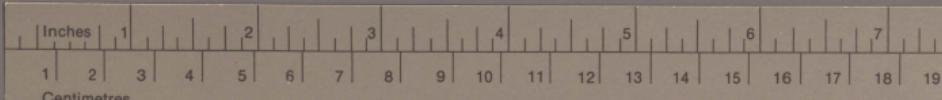
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Borneo June 1913

- No. 671. a forearm bottle with 11 small fish in formalin
- No. 672, 673 674, 675, 676. five fish with warty mouths
No. 677. a small bottle with fish.
- No. 678. perch. dark pinkish gray Tl.
- No. 679. perch deep gray with greenish reflections. Tl. 210 mm
- No. 680. perch somewhat elongated
dark gray with greenish reflections Tl. 205 mm
- all three have a dark brown Iris No. 679. with golden fine line around the pupil No. 679 has some silver below No. 680 silver along some on the sides Tl. 240 mm
- No. 681. a large fish.
gen. ch. a beautiful pink each scale an emerald yellow edge.
the back throughout darker somewhat purplish The dorsal fin dark bluish gray with paler areas especially the rays. The tail



KODAK Color Control Pa

Aug 7 June 19-3

dark blue gray somewhat purplish
pink grey above white below,
vent. grayish paler below,
anal fin dark blue gray,
with lighter base, crown
above purplish gray, some
pale gray & white, cheeks
white still covers gray,
breast whitish belly whitish
with few greenish tints.
This silvery with pale orange
tints pupil elongated below
see photograph.

No. 695. Height 120 through 10.
in part of dorsal fin 1

No 682 & 683 two eel like fish

T.L. 425. & 457.

No. 684. fish resembling Polypterus

T.L. 322

No 685. morayous elongated

T.L. 305.

No 686. morayous T.L. 315

No 687 225.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Ranger June 1913

- No. 688 Mormyrus flattened short soft process on lower jaw
TL. 360.
- No. 689. Mormyrus, flattened, dark purplish long curved head. TL. 300.
- No. 690. Mormyrus, curved obtuse head, silvery gray
TL. 260
- No. 691. Mormyrus, small process slightly turned downward
TL. 215.
- No. 692. Large scaleless fish, dark bluish grey on back & crown, silvery on sides TL. 415 mm.
- No. 693 same as above, but covered on back dorsal & caudal fins as well as on sides with a yellowish saline TL. 250.
- No. 694. same as above, but professed with irregular dark markings spotted on breast & lower sides
TL. 170.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

No 695. Large-scaled fish with upturned snout. Tl.

pinkish caudal, I + II dorsal
9 lower portion of anal
fins.

No 696. Fish with teeth, flattened,
Tl. 297.

No 697. same as above Tl. 277

No 698. " " " Tl. 183.

No 699. Fish with teeth but smaller
scales Tl. 323.

No 700. same as above Tl. 218.

No 701. " " " Tl. 165.

No 702. " " " Tl. 147

No 703. perch Tl. 297.

No 704. same as above Tl. 235.

No 705. perch elongated Tl. 225

No 706. perch short. Tl. 205

No 707. " " Tl. 212

No 708. " " Tl. 193.

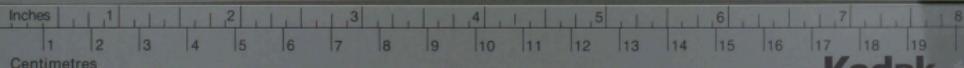
No 709. small flattened fish

Tl. 166. -

No 710. Large fish, 7 bands Tl. 395

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

- No. 70 ^{sp} ⁷⁰ ^{19 1/2} ^{71.}
 Rungu 3 and some fish as precedent
 No. 711. same fish as precedent
 TL. 340. ^{72.}
 No. 712. fish TL. 310. ^{722.}
 No. 713. fish TL. 280.
 No. 714. catfish with seven row
 of black spots dark blue
 gray above, paler on lower
 sides & whitish on ventral
 surface, but ^{with} exception
 of the ventral surface covered
 with a dull yellowish ^{greenish} ^{greenish}
 which produces ^{the} greenish
 gray tint of the live fish. ^{713.}
 No. 715. same as above TL. 307. 300 ^{724.}
 No. 716. " " " TL. 200 196 ^{725.}
 No. 717. " " " TL. 170 ^{726.}
 No. 718. catfish, bluemgray & silvery
 TL. 255 ^{727.}
 No. 719. catfish greenish grey &
 silvery TL. 28.5 ^{727.}
 No. 720. catfish dark blue gray
 TL. 330. ^{728.}



721.

catfish Tl. 205.

722.

catfish dark greenish gray
above yellowish on sides
yellowish on ventr. surface
but with the numerous
dark blue gray spots above
Tl. 287.

No. 723.

catfish Tl. 220.

purple gray above
greenish gray patches
on silvery sides, white
belly, dark blue gray
markings on back &
crown.

No. 724.

Puffer Tl. 195

No. 725.

a large bottle with

No. 726.

about 20 small fish

No. 727.

a large bottle with about

12 small fish.

No. 727.

Mormyros Tl. 323

Photo.

with soft purple dorsal

sides purple belly

crown dark greenish

cheeks white

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Bunyan July, 913.

No 728 Moraygus, Tl. 315
with soft process projecting
nearly straight. sides purplest
gray back yellowish green
Photo crown greenish, process
purplest, traces of cheeks
white.

No 729. fish with teeth see photograph
with open mouth, all the
teeth are covered with
a slimy coating. on the
lower jaw is a triangular
projection of skin fitting over
of covering the triangular
depression of the maxilla.
The iris silvery with yellowish
tint, some dark brown
below the pupil Tl. 310.

No 730. fish with teeth Tl. 365.

No 731 a large feed Tl. 270

No 732 moraygus, sides silvery
back gray crown dark gray
above the mouth whitish
iris silvery with some gray diffuse
markings Tl. 152.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

No 733. *mormyrus*, flattened,
sides purplish, back
pink & gray with dark
gray fine spots often, about
mouth, spotted intensely
with dark gray heart &
lower sides colorless
with iridescent reflexions.
Iris silvery with dark gray
on edges Tl. 1 1/2

No 734. *mormyrus* flattened,
sides silvery with bluish
reflexions with gray green
on back with golden
reflexions, breast white,
lower sides silvery.
Iris silvery with dark gray
Tl. 1 3/8.

No 735. in cell like foot Tl. 4 3/8.

No 736. catfish Tl. 2 0 3. brownish
on head up to dorsal fin
with fine dark markings
brown on back with
silvery ground

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
KODAK Color Control Patches																			
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Kodak

Pearlagn July 1913

No. 736 lower sides silvery, tail
brownish pink, many
bleach markings
ventral surface yellow
like pinkish. Daps
dark brown. Tl. 202.

No. 737 catfish Tl. 188.

No. 738 " Tl. 145

No. 738/3 large fish. Gen. col., a grayish
purple, with pinkish
tints, the greenish bases
of the scales ~~are~~ interrupting
this color. The crown dark
blue-gray with pinkish areas
the tip of head & snout
white, sides of head
blue-gray with pinkish areas
the iris silvery with ~~yellowish~~ pink;
the lower sides white,
the ventral surface
white. The dorsal fin anteriorly
gray pinkish on upper
edges, ~~yellowish~~ ^{pinkish} ~~white~~, the

Polo
No. 735
No. 736
No. 737
No. 738

No. 742
No. 743

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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intercristies between rays bluish,
the caudal fin gray at
base with transition
to yellowish & purplish
on edges. The pectoral fins
dark blue gray above with
the smaller rays yellowish &
edges purplish. Vertical
fins practically same
cols. Anal fin whitish
pink on edge's. Te. 8.37 mm
height in front of dorsal
fin 230 mm. Dorsal
145 mm.

Photographs only
with head.

Poko

July 1913

No 739

No 740

No 741.

No 742

No 743

fishes from the Bomotkandi L.

mormyrid rounded head

mormyrid small oblique pores

mormyrid rounded head small

oblique downward pores

mormyrid elongate conical body

for the pitcher

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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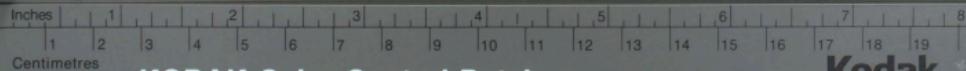
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Poecilia July 9/13
No. 744 safety valve for water
more than 20 mm. in length
from the Bonnevente River.

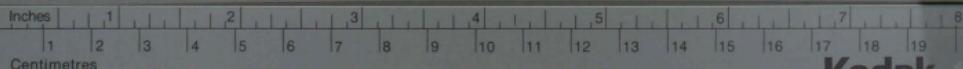
✓ No. 745. small fish like pickel
No. 746. small fish - numerous
No. 747. a silvery small scaled fish
with teeth (Pearson photog.
by mistake No. 747.) No. 746. ^{No. 747.}
Tadafish No. 283. silvery on sides
on the branchies greenish brown above
and below dark grey or crown
vertical stripes on the posterior part
of eye. A number
of irregular dark grey markings
(in back greenish tinted) on
upper half, cheeks silvery
Anal fin black, ventral
surface silvery with pinkish
tint. Dorsal fin tinted
yellowish with dark horizontal
bars. Tail pale grey with
black bars. Pectoral fin
soft orange tint above ventral

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

- No. 747. 2nd July fin, anal fin, pectoral
very slightly yellowish tint.
This ad very dark above
slightly purplish below
pupil pointed forwards crown.
- No. 748. catfish, spiny, gen. col.
a dusky greenish brown
with many irregular yellowish
markings. (See on photo.
by me. No. 747) TL 247 mm
- No. 749. pale, dark greenish above
becoming lighter on sides
purple on lower frontral
sides. 5 black markings
forming indistinct bar
bars towards the back.
- No. 750. Monopterus, roundish TL 45
- No. 751. Monopterus, long beak
curved downward TL 255
- No. 752. fish with red caudal fin TL 208.
7 (stripes across) dark markings
a young one of the same species
(see for) showed black spots
on the sides



- Pohn August 1913. Sonohada.
- No. 753. *Mormyrus* dark purple black
soft ^{orange} process on lower lip
TL. 212. No. 753.
- No. 754. catfish, gray with dark spots
TL. 252. No. 768.
- No. 755. 756. 757. 758. 759. perch
perched the largest 212 mm.
long (755) No. 758 & 759 are
two of a different species, the
largest of 758 measures 165 mm. No. 771.
- No. 760. 761. catlike fish TL. 383 ♀ 245. No. 773.
- No. 762. dark pinkish gray catfish
with caudal fin striped
black TL. 285. No. 774.
- No. 763. (picture TL. 260. mm. This species
slow. The triangular anteriorly
~~spine to keep prey back~~
soft ^{orange} process back flat for
the teeth that are surrounded with
a sliding skin. No. 775.
- No. 764. fish with large teeth TL. 252.
- No. 765. perch with depressions (TL. 180)
in gill covers, see No. 758 & 759 No. 776.
- No. 766. *Mormyrus* with curved
beak & flexible



Dohs August

process T.L. 210 mm.

No. 767. large-scaled fish T.L. 187 mm
curved up mouth.

No. 768. catfish T.L. 36, spiny

No. 769. catfish T.L. 23.5, ♀

No. 770. catfish, spiny, grey T.L. 280.

No. 771. moray, flexible
downward process T.L. 235.

No. 772. moray, curved back
small soft process T.L. 265.

No. 773. small bottle with large
number of small fish

No. 774. small soft process with
large number of small fish

No. 775. large safety valve jar with
large number of fish

No. 776. catfish, gen. col. greyish above
in very thin areas with green
reflections, ventral surface
whitish, on mouth pinkish,
on the back greenish,
behind the first dorsal
purple & turns over the
grey, dorsal fins greyish

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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80 Atko, Aug. 1913.

No. 776. caudal, pectoral, ventral
genital fins ~~yellowish~~ pink.
large eyes. Silvery about
the pupil dark gray
~~the scales above are exposed~~
^{the scales above are exposed}
grayish like the surrounding
portions.

No. 777. fish with small teeth
TL. 343 mm.

No. 778 same as above TL. 223.

No. 779. mormyrus curved beak
small process TL. 350.

No. 780. mormyrus TL. 315. curved
beak long flexible process

No. 781. 7782. perches TL. 230 mm.
TL. 197 mm.

No. 783. ~~Mormyrus~~ long curved
beak with small soft

~~process~~ process TL. 280. mm

No. 784. mormyrus, beak not
so long as in preceding

~~process~~ see photographs of
No. 783 & 784. TL. 255 mm.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

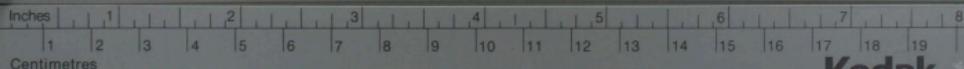
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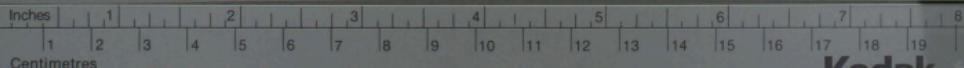
Akunge. Oct. 1915.

- No. 785 & 786 & 787 three small catfish
No. 788. 789 two small catfish
No. 790. small catfish, head dark bluish
gray, body some color but
flecked so much with pale
pinkish brown, ventral
surface pinkish white.
No. 791. fish, elongate, shorter mouth than nose
color at present
No. 792. small catfish from forest brook
No. 793. " " " "
No. 794. " " " "
No. 795. " " " "
No. 796. catfish
No. 797. catfish, flecked with gray, dark
head pinkish brown on upper side
No. 798. catfish, flecked with dark gray
gray otherwise on upper side
silvery gray (sides) & brownish
tints of upper sides head,
No. 799. 800. 801. 802. 803. 804. 805. 806
807. 808. 809. 810. 811. Thirteen cellophane
fish, of soft pinkish color.



Niapa Nov. 16 / 913

- No. 812 a small perch.
- No. 813. catlike fish
- No. 814. catlike fish with squids on back
- No. 815. catfish brown & freckled with dark
 areas greenish & grayish
- No. 816. like No. 814.
- No. 817. Moraynes, soft process on lower jaw
- No. 818. 819. 820. 821. 822. 823. 824 seven alike
 slender pinkish brown f.t.
- 825, 826. 827 828 four moraynes
 with soft process on lower
 lip.
- No. 829. moraynes
- No. 830. catfish with series of
 transversal spots
- No. 830. 9851. two small pinkish brown
 catfish.
- No. 832. small bottle various fish.
- No. 833. small bottle various fish
- No. 834. small bottle various fish
 from the "Nedungeo" an offshoot
 of the (NEDUNGAU) Bina River



July May 1914 various small fish

No. 834

~~Maumere July 2/1914.~~ No. 835. 836 Two large *Mormyrides* from Aug. 26. Aug 1914
Aug 26. Aug 1914
No. 837. Spring catfish of which Mr. Seppen has made a

watercolor

spring catfish - sucker -

of which a watercolor was

made.

No. 839

long-nosed mormyrid
of which a watercolor was
made.

No. 840.

spring catfish - see watercolor

No. 841.

Barbels - see watercolor

No. 842

perch-like fish - ? "

No. 843

perch-like fish. " "

No. 844.

small fish " "

No. 845

small compressed fish " "

No. 846.

Mormyrides short posterior

No. 847.

catfish, small " "

No. 848

Mormyrides long snout ? "

No. 849

small fish, with Chapman tail ? "

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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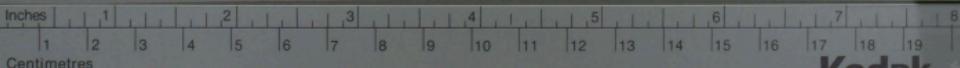
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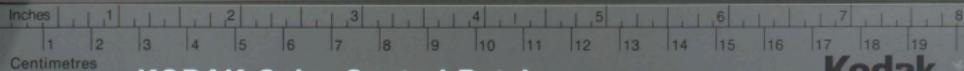
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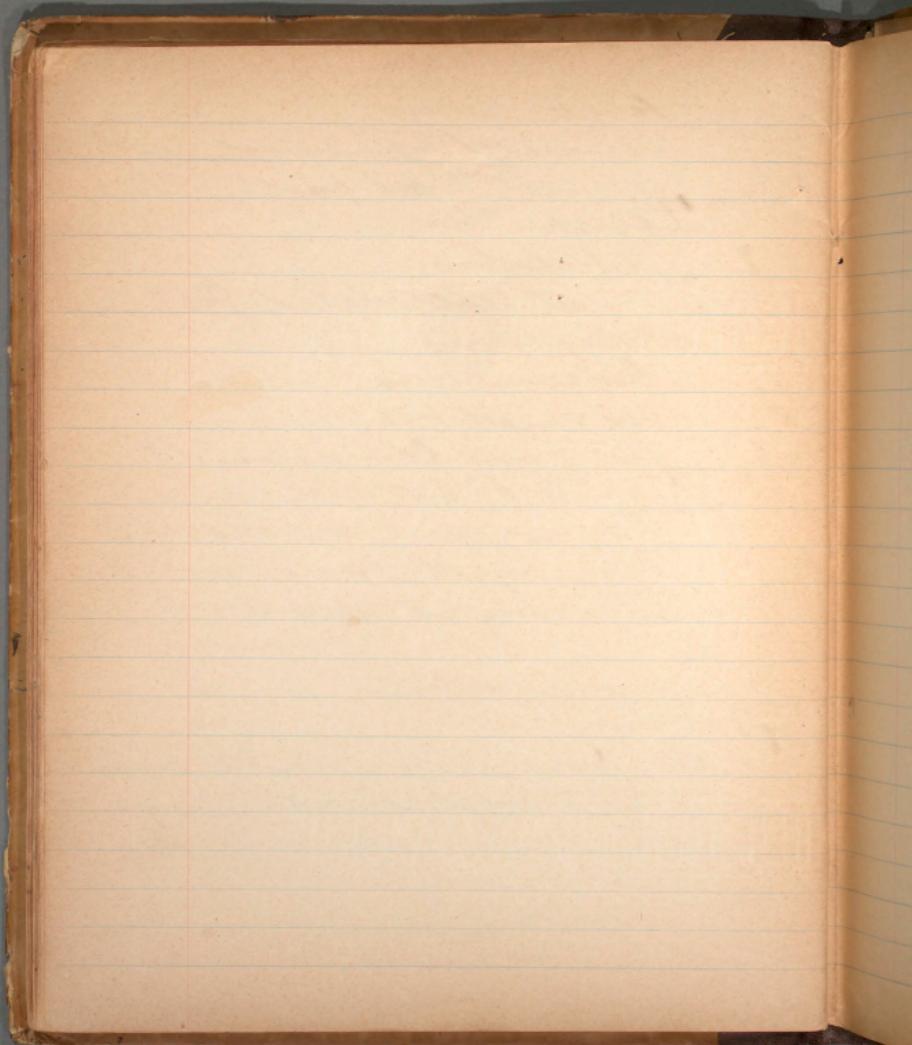
Awakulic - Shari River

850. Mormyrus, not snout see watercolor
 851. ^{Aug 12} Lebes - blackish + +
 852. ^{Aug 19} Lebeo + +
 853. ^{Aug 22} small fish. + +
 854. ^{Aug 23} small mormyrus.
 855. ^{Aug 23} catfish large skin only
 Tot. Length 95 cm. Height
 of body at base of ventral fin
 (the highest part) 13 cm.
 color dusky green above
 light yellow or streak of belly
 856. 857. 858. 859. 860. 861. 862. 863.
 864. 865. seen long nosed Moray.
 866. 867. two Morayans roundish
 snout.
 868. 869. two Morayans roundish.
 snout.
 870. 871. 872. tree Morayans
 roundish snout.
 873. Morayans round snout.
 874. Morayans short snout.
 875. 876. 877. tree small
 Morayans short downward snout.



- Avakubri febr. 14/1914 85
 878. *Labeo* - small fish.
 879. reticulated spiny catfish
 880. febr. 19/1914 small banded fish.
 881. perch.
 882. *Distichodus*
 883. small reticulated ~~perch~~ fish.
 884. *Polypterus*
 885. *Mastacembelus*
 886. six small fish.
 887. ~~four~~ small compressed fish.
 888. ~~one~~ small fish slightly compressed.
 889. ~~one~~ ^{many} ⁵ *Mormyrid* short snout.
 890. ~~one~~ ^{many} ²⁵ *Mormyrid* long snout
 891. ~~one~~ ^{many} ²⁵ *Mormyrid* short downward
snout
 892. spiny catfish.
 893. Sept 1914 *Synbranchid*
 894. 895 *Echeneis*, from the falls
at Parage, common.



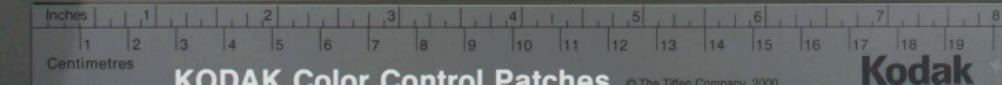


A blank, lined page from an old notebook, showing horizontal ruling lines across the page.

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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6 loose blank lined sheets
including this one page

Inches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Centimetres	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Kodak Color Control Pictures

Centimetres

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

inches

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19



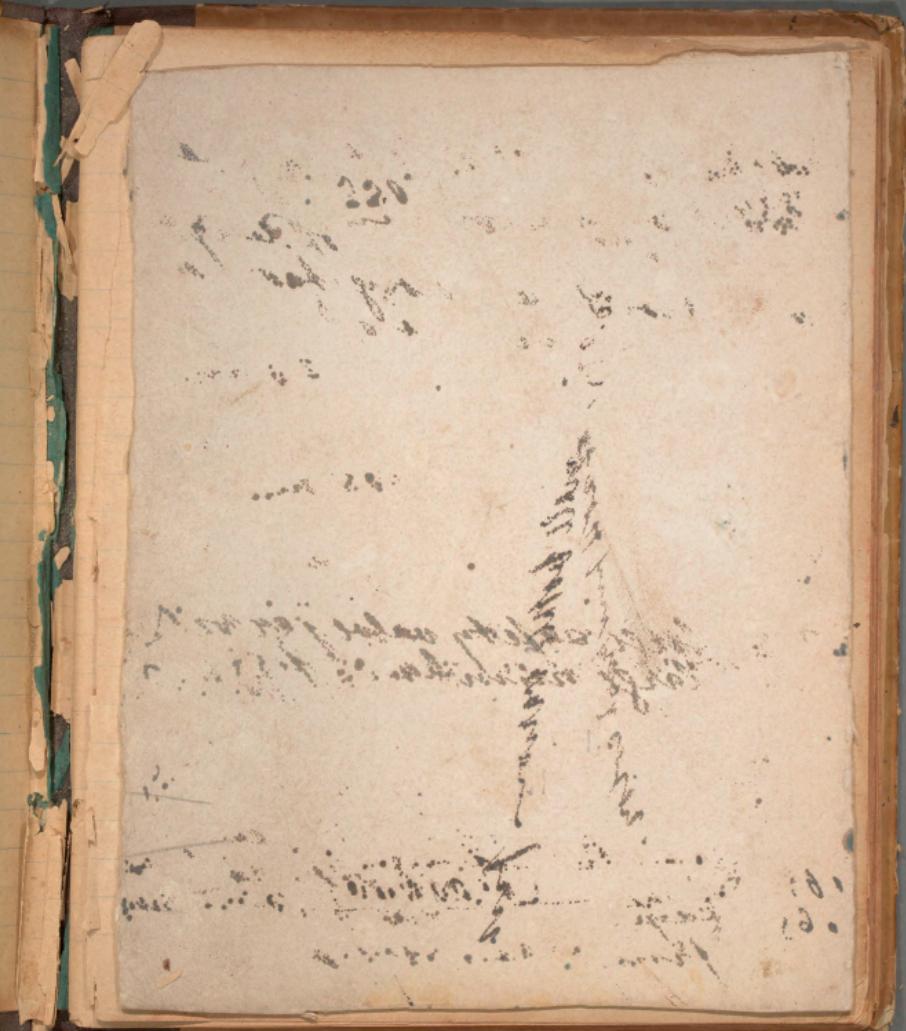
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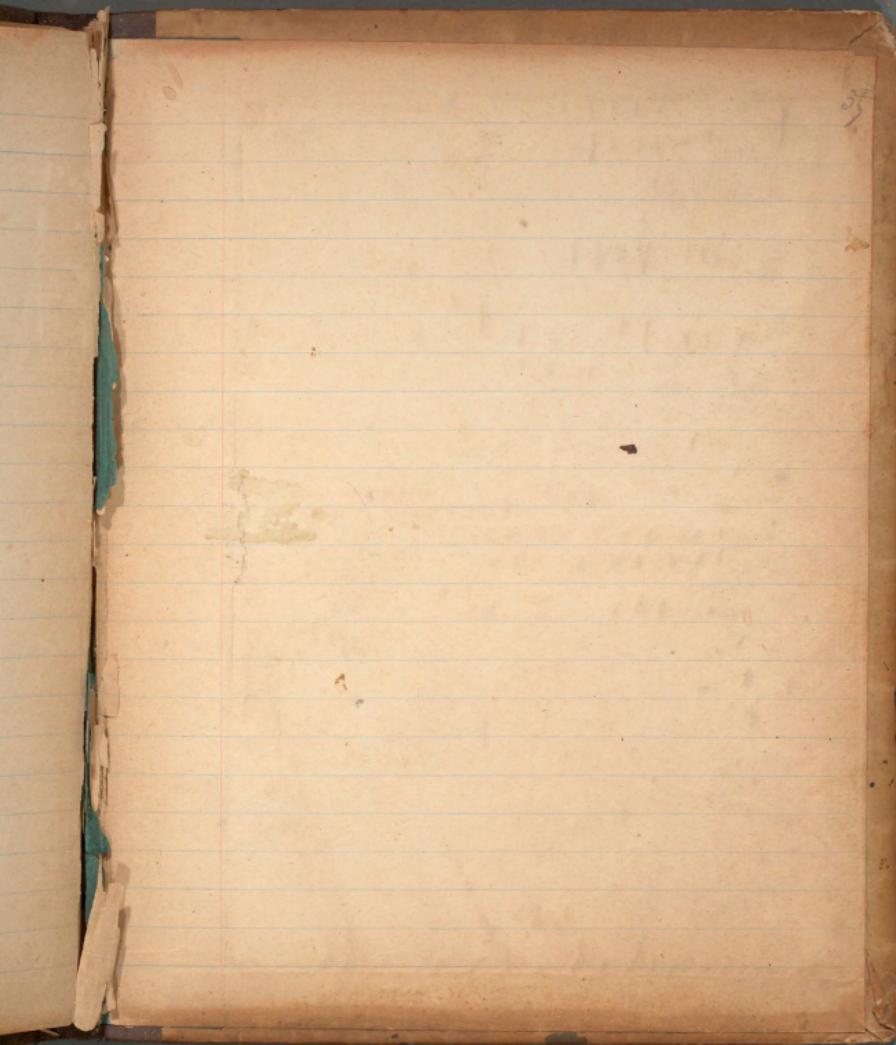
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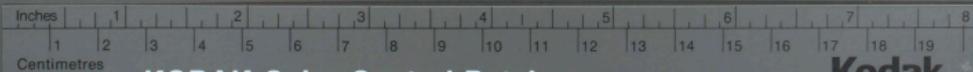
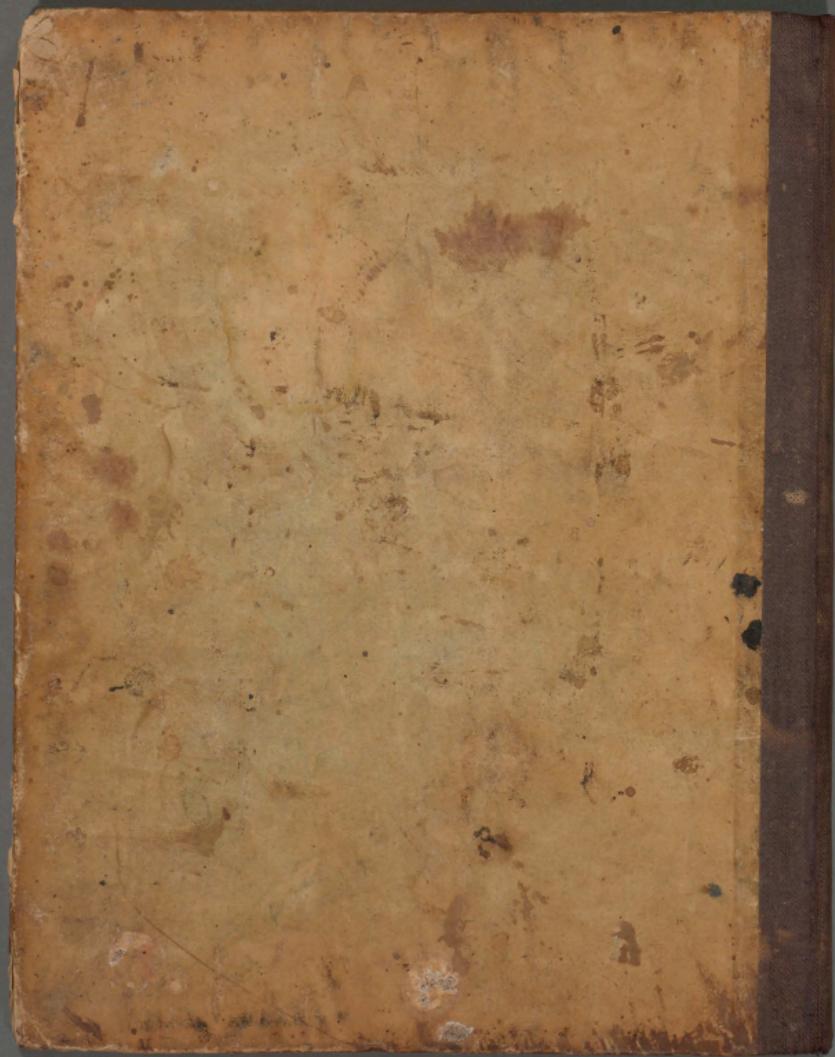
Inches | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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The Triad Company 3000
Centimetres | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Inches | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19





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Inches
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
Centimetres

KODAK Color Control Database

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