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2 May 1983

Dr. R.J. Behnke,  
Dept. of Fishery and Wildlife Biology,  
Colorado State University,  
Fort Collins,  
Colorado 80523  
U.S.A.

Dear Bob,

Thanks for your letter. I have arranged to ship the UMMZ loan of two lots of Cyprinion from Oman (209941, 209947; 5 and 20 specimens respectively) to you and have so informed Michigan.

I have been slowly piling up counts, measurements and x-rays of Oman and Iran Cyprinion (with UMMZ fish plus some other Oman material now in National Museums Canada). My plan was to look at "C. watsoni" which I suspect is the only species in S.E. Iran, Pakistan and Oman, and eventually to revise the whole genus. So I do have 15 meristic and 22 morphometric observations on Oman and Iran Cyprinion collections. I would'nt bother doing these again - perhaps we could share data or collaborate in some way depending on your aims.

I haven't seen Krupp's MS yet; I wrote to him recently. Whether he has the unusual Hadramout Garra in his MS, I don't know.

Krupp is a pleasant German who has spent some time in the Middle East on expeditions funded by German universities and teaching in Syria and Jordan. He is working on 2 Ph.Ds - one on fish, probably the MS you saw is it, and one on Arabic literature. He is fluent in Arabic and English. You are right, he represents a much better school than Karaman and Ladiges, is well up on modern literature and seems to have done a lot of work by himself without following any particular professor.

I think I have a new Pseudophoxinus from Turkish Thrace if I can get more material from the Turkish biologist who sent it to me.

Sincerely,

*Brian*

Brian W. Coad,  
Associate Curator of Fishes





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5 July 1984

Dr. R. J. Behnke,  
Department of Fishery and Wildlife Biology  
Colorado State University  
Fort Collins,  
Colorado, 80523  
U.S.A.

Dear Bob,

This is a reminder letter. I would like to have your specimens of fishes from the Reza'iyeh basin and elsewhere in Kurdistan and E. and W. Azarbaijan as my collections are few to none from these areas. I can keep the material in my office in case a Shah or MMTT ever come to life again and demand the fish back. They will be looked after and I will re-write labels to get the material on as good a footing as possible.

I would like a copy of your reprint from Fauna of Saudi Arabia Vol. 5, if you have one to spare.

The museum in Oman sent me some nice specimens of blind Garra but Keith Banister beat me to these and is working them up.

I met Gordon Howes at Harvard where he was helping identify their collections. MCZ has some material collected by Heckel in fairly good condition.

We expect to have a reprint mailing soon.

Sincerely,

*Brian*

Brian W. Coad,  
Associate Curator of Fishes





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13 February 1985

Dr. R. J. Behnke,  
Dept. of Fisheries and Wildlife Biology,  
Fort Collins,  
Colorado 80523  
U.S.A.

Dear Bob,

Another letter to bug you about loaning me your Iranian fish collections. I'm particularly keen on getting Lake Reza'iyeh and Tigris basin specimens. If you are short of time could you persuade a student to pack any available material and I'll scare up some cash to pay him/her?

My research progresses, writing up species accounts and doing counts & measurements for all the Iranian species. This will be a fairly extensive work as you can see from the attached.

I will be attending a "Symposium on the Fauna and Zoogeography of the Middle East" in Darmstadt, W. Germany later this year organised by "Atlas der Vorderen Asien" (Drs. Kinzelbach and Krupp). The Germans seem to be doing a lot of collecting and work on the Middle East.

Best wishes,

Sincerely,

*Brian*

Brian W. Coad,  
Associate Curator of Fishes





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24 April 1985

Dr. R.J. Behnke,  
Dept. of Fishery and Wildlife Biology,  
Colorado State University,  
Fort Collins,  
Colorado 80523  
U.S.A.

Dear Bob,

Thanks for your letter. I would be grateful for any and all Iranian specimens you could let me have on an indefinite loan.

In my last letter I offered to pay a student a \$100 or so to pack up the fish with labels and ship them to me if this meets with your approval.

I expect to take 4-5 years to finish the study. The museum authorities have approved it and I'm plugging away at detailed descriptions. Krupp has a conference in Mainz and has invited me to attend (see enclosed).

Thanks for your help.

Sincerely,

*Brian*

Brian W. Coad,  
Associate Curator of Fishes





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May 6, 1985

Mr. Steven P. Platania  
Colorado State University  
Dept. of Fishery and Wildlife Biology  
Fort Collins, Colorado 80523  
U.S.A.

Dear Steven:

Brian Coad and I are very interested in acquiring Dr. Behnke's collection of Iranian fishes. This would beautifully complement Brian's and Vadim D. Vladykov's earlier collections geographically and taxon-wise.\*

Brian is off on a 2 week jaunt in Britain, so I'm replying instead. He'll be sending you paons of joy soon.

Air and postal people are a bit sticky about shipping specimens in formalin. The best way is to seal them, as you say, in strong plastic bags with formalin-soaked cheesecloth. These bags, perhaps in a larger plastic bags should be placed in an "approved container." (Approved containers must withstand 1/2 hour in a shower, then being dropped from 34 feet without being schmucked). We'll airship 3 or 4 approved containers.

If you would ship the containers air express collect, I think this would be the most dependable. You should declare the presence of formalin on the appropriate form, but indicate all required procedures have been followed. (Failure to declare and subsequent discovery of formalin during shipping process causes problems). Please invoice us for any expenses.

Spot data in the form of xed in squares continues to trickle in from Dave. There are 107 species left, mostly the BIIIG suckers (and I don't mean Dogostomidae).

...../2

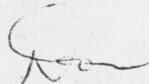
\* It's a wise taxon that needs its geography.



- 2 -

We have most of our catalogued Canadian collection data in our new computer system now. And the spring is wound up so we can now select records much faster and in more complicated queries than ever before. Next we have to crazy glue in the cables for the plotter and patch in some software to softshoe the pen about on maps.

Congrats on passing the orals. *My best to Bob. What does he think of enclosed paper, Acubon's & my/211.*  
Cordially,



Don E. McAllister,  
Curator of Fishes

DEM/t1



FISH COLLECTIONS FROM IRAN

made by

ROBERT J. BEHNKE

and the

NATIONAL MUSEUM OF NATURAL HISTORY, TEHRAN

(Muze-ye Melli-ye Tarikh-e Tabi'i = MMTT)

1974-1976

return to  
R. J. Behnke, Biol.  
Fish. & Wildl., Collins  
C. S. U. - Ft. Collins  
80523

Brian W. Coad,  
Ichthyology Section,  
National Museum of Natural Sciences,  
Ottawa, Ontario, Canada K1A 0M8

July 1985



The origin of these collections is as follows. A collecting trip was made by R. J. Behnke as principal investigator from 4 November to 2 December 1974. Neil B. Armantrout and employees of the Department of the Environment, Tehran were also on this field trip. Half of the collection was to have been sent to the United States and divided between Armantrout and Behnke (according to Armantrout in his Ph.D thesis) but the material was retained at Colorado State University, Fort Collins and formed the basis of a M.S. thesis by M. A. G. Saadati, supervised by R. J. Behnke. The other half of the material was deposited in MMTT, Tehran. Behnke and Saadati have collection numbers 1 to 74 on this material which becomes transformed to numbers 100 to 174 in Saadati's thesis. (N.B. There are also collections numbered 5A, 5B, 13A, 74A and 74B). These all have fairly good locality data and field notes. Two collections were found for each of numbers 21, 28 and 42. I have kept these separate and believe that the correct 21, 28 and 42 are so labelled.

Additional material was collected in 1976 by members of the Department of the Environment and dispatched to Fort Collins where it was incorporated in Saadati's thesis. There are no field notes for this material and localities have been derived from a map bearing collection numbers. On the map these are 1 to 47 (transmuted to 201-247 in Saadati's thesis but listed as 101-147 in the jars). There are, therefore, two overlapping series of numbers for the 1974 and 1976 collections (up to number 47 that is) but they can



be separated, thankfully, by the species content of the jars and the non-overlapping of localities. I have numbered the collections 1 to 74 (with 100 to 174 in parentheses) and 101 to 147 (with 201 to 247 in parentheses). This does not matter too much as each species lot has its own locality data worked out as best I can (trust me!).

There are also a few collections bearing MMTT numbers, presumably catalogued material on loan from that institution. MMTT was part of the Department of the Environment. Five collections have data but no catalogue numbers and presumably are MMTT material. One collection was without data and is not listed here as it comprised only 2 fish in poor condition.

Collections numbered 11, 15, 32 and 53 (from the 1974 collecting trip) were not received at NMC nor was number 42 (from the 1976 collecting trip).

Wherever possible I have resolved mixups of specimens according to the information available to me in writing or in experience of localities. When in doubt I have said so. Co-ordinates are often approximate but serve to fix locality in the correct drainage basin. Spellings are from the gazetteer of the U.S. Board on Geographical Names. Localities I could not find on maps or in gazetteers are cited in parentheses.

The material belongs to MMTT but the Iranian Revolution of 1979 has rather left a return in abeyance. The Director of the Department of the Environment was imprisoned and at this writing (1985) I have not been able to find out if MMTT



is still functioning. R. J. Behnke kindly let me "loan" the material indefinitely (as of 17 May 1985).

This material should NOT be catalogued in NMC but Saudi Arabian material received at the same time is a gift from R. J. Behnke and has been catalogued.

The material is listed below with current identifications. These will be revised as the material is examined further. Identifications are given to genus only in many cases as a convenience to me in labelling. Much of the material has been measured, counted and x-rayed by me and this data is on file at NMC.



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1974 collections

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1. Semnan, "Chashmeh Ali", 36 km east of Damghan, "Ali River" basin. ca. 36°17'N, ca. 54°46'E. 5 November 1974.

Schizothorax pelzami (8)

No other species found by seining and electro-shocking in the river below this spring at two localities and in a qanat near Damghan.

Brassy hues, faint rose colour on sides, blue-green iridescent tints on dorsum, abdomen light cream colour in smaller fish torich yellow hues in larger specimens. Iris of eyes with red pigments dorsally.

Fish said to reach 3 kg according to villagers.

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2. Semnan, "Chashmeh Bedasht" ca. 20 km northeast of Shahrud in Shahrud basin. ca. 36°35'N, ca. 55°03'E. 6 November 1974.

Schizothorax pelzami (6)

---

3. Semnan, spring at Nardin. ca. 37°03'N, ca. 55°47'E. 6-7 November 1974.

Capoeta sp. (7)

Collections 3 to 8 are all isolated from each other and the main river of this area (the Qareh Su) is dry or saline.

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4. Khorasan, spring in Qareh Su basin, 2-3 km south of Garmeh between Garmeh and Jajarm. ca. 36°58'N, ca. 56°15'E. 7 November 1974.

Capoeta aculeata (9)

Fast flowing water in ditch.

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5. Khorasan, stream supplemented by qanats, 2 km north of Jajarm then 15 km east in canyon "Kal-e Tangeh". ca. 36°59'N, ca. 56°29'E. 7 November 1974.

Capoeta aculeata (8)

Less than 1 c.f.s.

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5A. Khorasan, qanat at Jajarm. 36°57'N, 56°23'E. 7 November 1974.

Capoeta aculeata (2)

Fish remain in qanats during day and come out to forage at night. Taken at night.

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5B. Khorasan, qanat at Amirabad, 60 km south of Jajarm. ca. 36°31'N, ca. 56°45'E. 8 November 1974.

Capoeta aculeata (18)

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6. Khorasan, qanat 12 km south of Sabzevar at Haresabad. 36°07'N, 57°37'E. 8 November 1974.

Capoeta aculeata (11)

Qareh Su saline near here and fishless.

---

7. Khorasan, Kalshur River 18 km south of Neyshabur. 36°05'N, 58°43'E. 9 November 1974.

Capoeta aculeata (12)

Water slightly saline.

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8. Khorasan, qanat at "Bagh-e Jan", 30 km south of Neyshabur. ca. 36°00'N, ca. 58°38'E. 9 November 1974.

Schizothorax pelzami (2)

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9. Khorasan, qanat 5 km north of "Boghai", ca. 50 km west of Mashhad. ca. 36°02'N, ca. 59°31'E. 9 November 1974.

Schizothorax pelzami (2)

N. B. Locality approximate but in Harirud (Tedzhen River) drainage.

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10. Khorasan, pool fed by qanat flow in Kuh-e Sang Park in Mashhad. ca. 36°18'N, ca. 59°36'E. 10 November 1974.

Capoeta sp. (4)

Carassius auratus (not kept)

Gobio gobio lepidolaemus (3)

Schizothorax pelzami (3)

Nemacheilus sp. (1) N.B. Probably a mix-up according to R. J. Behnke.

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11. Khorasan, qanat 50 km south of Torbat-e Heydariyeh along main road to Gonabad. ca. 34°58'N, ca. 58°51'E. 11 November 1974.

Capoeta fusca

Lost! Not received at NMC nor found by me in Fort Collins, Colorado.

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12. Khorasan, qanat in village of "Khalaj" 6 km southwest of # 11. ca. 34°54'N, ca. 58°52'E. 11 November 1974.

Capoeta fusca (8)

Kal-e Shur highly saline at highway and barren of fish.

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13-13A. Khorasan, qanat at edge of Bidokht (10 km east of Gonabad) and jube (qanat flow) in Bidokht in park across from mosque. ca. 34°21'N, ca. 58°46'E. 12 November 1974.

Capoeta fusca (8)

Naturally deformed.

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14. Khorasan, qanat at "Dasht-e Biaz" (probably Dasht-e Bayaz) about half way between Gonabad and Qayen. ca. 34°02'N, ca. 58°47'E. 12 November 1974.

Capoeta fusca (3)

---



15. Khorasan, Farrokhabad qanat outflow at edge of Qayen.  
ca. 33°44'N, ca. 59°11'E. 12 November 1974.

Capoeta fusca

Lost! Not received at NMC nor found by me in Fort Collins,  
Colorado.

---

16. Khorasan, Shur River, ca. 60 km east of Qayen. ca.  
33°52'N, ca. 59°41'E. 12 November 1974.

Capoeta fusca (15)

Large flood channel (100-200 metres across) but small flow.  
Mottled dorsum, white ventral area, striped effect in water.

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17. Khorasan, qanat between Esfideh and Abbasabad. Esfideh  
is at 33°39'N, 59°46'E and there are several Abbasabad's in  
this area including one at 33°29'N, 59°38'E. 12 November  
1974. The collection is from the Daqq-e Patargan basin.

Capoeta fusca (9)

Naturally deformed.

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18. Khorasan, qanats at Marak and Rabi'an, respectively  
32°55'N, 59°26'E and 32°58'N, 59°27'E. 13 November 1974.

Capoeta fusca (23)

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19. Khorasan, Shah Abbas qanat in Asadabad, approximately 100  
km east of Birjand. 32°55'N, 60°01'E. 13 November 1974.

Capoeta fusca (16)

Nemacheilus sp. (11)

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20. Khorasan, qanat pool at Mud-e Dahanab 45 km south of  
Birjand. 32°43'N, 59°31'E. 14 November 1974.

Capoeta fusca (6)

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21. Khorasan, qanat at Sarbisheh 35 km south of Mud-e Dahanab. 32°34'N, 59°48'E. 14 November 1974.

Capoeta fusca (6)

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217. This collection is so labelled and there is no further data.

Capoeta fusca (23)

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22. Khorasan, qanat along highway, 120 km south of Birjand. ca. 32°24'N, ca. 59°49'E. 14 November 1974.

Garra rossica (8)

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23. Khorasan, qanat at Shusf 175 km south of Birjand. 31°48'N, 60°01'E. 14 November 1974.

Garra rossica (19)

Qanat water cold 56-58°F. Another qanat along the way was fishless.

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24. Khorasan, qanat at Khvansharaf. 31°34'N, 60°06'E. 14 November 1974.

Garra rossica (13)

N.B. This collection marked as 24? but it appears to be correctly 24.

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25. Khorasan, qanat at Khunik-e Pa'in. 31°28'N, 60°06'E. 14 November 1974.

Garra rossica (13)

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26. Baluchestan va Sistan, qanat at Hormak. 29°58'N, 60°51'E. 14 November 1974.

Garra rossica (7)

N.B. One Alburnoides bipunctatus in this collection is probably a mixup. It is not mentioned in R. J. Behnke's original field notes nor in a typed version.

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27. Baluchestan va Sistan, small stream near Eskelabad.  
28°35'N, 60°48'E. 15 November 1974.

Capoeta sp. (14)

1 c.f.s.

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28. Baluchestan va Sistan, headwater of Bampur River.  
27°51'N, 60°46'E. 15 November 1974.

Capoeta sp. (1)

Garra rossica (2)

Cyprinion sp. (12)

Small stream. 1 c.f.s.

---

28. This collection is so labelled and there is no further data. It does not appear to be # 28 above from my notes on what was # 28 in Fort Collins, Colorado. It is labelled 28?

Capoeta sp. (2)

Cyprinion sp. (19)

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29. Baluchestan va Sistan, "Rusgay" qanat in Iranshahr.  
27°13'N, 60°41'E. 16 November 1974.

Cyprinion sp. (15)

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30. Baluchestan va Sistan, headwater stream along road to Zaboli, 100 km east of Iranshahr. ca. 26°58'N, ca. 61°27'E.  
16 November 1974.

Cyprinion sp. (3)

Specimens dried at some time. Locality very approximate.

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31. Baluchestan va Sistan, stream 20 km west of Zaboli.  
ca. 26°58'N, ca. 61°27'E. 16 November 1974.

Cyprinion sp. (none found)

Garra sp. (9)

Specimens dried at some time. Locality very approximate.

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32. Baluchestan va Sistan, qanats in Zaboli. 27°07'N,  
61°40'E. 16 November 1974.

Cyprinion sp.

This collection not received at NMC.

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33. Baluchestan va Sistan, qanat at Bazman. 27°49'N, 60°12'E.  
17 November 1974.

Cyprinion sp. (8)

Qanat water warm (ca. 90°F).

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34. Kerman, "Hosseinabad and Gamatabad" qanats at Bam.  
29°06'N, 58°21'E. 18 November 1974.

Capoeta sp. (10)

Cyprinion sp. (7)

Nemacheilus sp. (5)

Gambusia affinis (not found)

Large flow (8-10 c.f.s.).

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35. Kerman, "Mehtiabad" qanat, less than 1 km north of # 34.  
29°06'N, 58°21'E. 18 November 1974.

Capoeta sp. (2)

Cyprinion sp. (9)

Nemacheilus sp. (1)

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36. Kerman, Tahrud River, 60 km from Bam, on Kerman highway.  
ca. 29°23'N, ca. 57°53'E. 18 November 1974.

Capoeta sp. (1)

Nemacheilus sp. (6)

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37. Kerman, "Qahariz" qanat at Jupar. 30°04'N, 57°08'E. 18  
November 1974.

Capoeta sp. (7)

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38. Kerman, qanat flow at Baghin. 30°12'N, 56°48'E. 19 November 1974.

Capoeta sp. (6)

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39. Kerman, qanat at Negar. 29°52'N, 56°50'E. 19 November 1974.

Capoeta sp. (7)

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40. Kerman, qanat outflow at "Emamzadeh Sultan". ca. 29°40'N, ca. 46°45'E. 19 November 1974.

Capoeta sp. (8)

Nemacheilus sp. (9)

Locality very approximate.

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41. Kerman, Qal'eh-ye Askar stream headwaters. ca. 29°28'N, ca. 56°38'E. 19 November 1974.

Capoeta sp. (6)

Drains north; headwaters of # 40 just before crossing into Hamun-e Jaz Murian basin.

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42. Kerman, Kharan River drainage at Baft. 29°14'N, 56°38'E. 19 November 1974.

Capoeta sp. (17)

Nemacheilus sp. (6)

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42. This collection is so labelled but there is no further data. It does not appear to be # 42 above. The collection dried out at some point and is in poor shape. It is labelled as 42?.

Alburnus sp. ? (1)

Capoeta sp. (1)

Capoeta sp. (5)

Chalcalburnus sp. (1)

Garra sp. (6)

Nemacheilus sp. (4)

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43. Kerman, qanat outside walled enclosure at Hoshun, 40-45 km west of Baft, 72 km east of Sirjan. 29°14'N, 56°19'E. 19 November 1974.

Capoeta sp. (11)

Nemacheilus sp. (2)

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44. Kerman, qanat at Hasanabad, 87 km south of Sirjan, 10-15 km east of highway. ca. 28°50'N, ca. 55°50'E. 20 November 1974.

Capoeta sp. (11)

Elevation ca. 2000 metres. Locality very approximate.

---

45. Hormozdgan, ditches from upper Kol River basin at Hajjiabad. ca. 28°19'N, ca. 55°55'E. 20 November 1974.

Cyprinion sp. (11)

Capoeta sp. (1)

---

46. Hormozdgan, ditches from upper Kol River basin at Hajjiabad. ca. 28°19'N, ca. 55°55'E. 20 November 1974.

Cyprinion sp. (4)

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47. Hormozdgan, river at bridge at Hajjiabad, upper Kol River basin. 28°19'N, 55°55'E. 20 November 1974.

Cyprinion sp. (7)

Garra sp. (10)

Nemacheilus sp. (5)

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48. Hormozdgan, spring-fed ditch at Qotbabad. 27°46'N, 56°06'E. 20 November 1974.

Cyprinion sp. (2)

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49. Hormozdgan, Sarzeh River, 53-60 km north of Bandar 'Abbas. ca. 27°36'N, ca. 56°15'E. 20 November 1974.

Aphanius dispar (4)

Iranocichla hormuzensis (17)

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50. Hormozdgan, Ab-e Garm at Genu. ca. 27°26'N, 56°20'E. 20 November 1974.

Aphanius ginaonis (13)

Hot, sulphur spring is a popular resort. Water near source ca. 40°C. Aphanius swarms in the shallow, hot flow from the spring.

---

51. Hormozdgan, headwater stream in Minab River basin at "Nudeh" (or "Nowdezh"), possibly Nurabad at 27°47'N, 57°12'E. 21 November 1974.

Cyprinion sp. (15)

Garra sp. (5)

Nemacheilus sp. (3)

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52. Kerman, qanat by old castle at Kahnuj. 27°58'N, 57°45'E. 21 Novemebr 1974.

Cyprinion sp. (14)

Garra sp. (2)

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53. Kerman, river near village at Dar Shur ("lake" formed by springs), headwaters of Minab River basin. 28°02'N, 57°17'E. (at Golashkerd in Armantrout's thesis which is at 27°59'N, 57°16'E). 22 November 1974.

Capoeta sp.

Cyprinion sp.

Garra sp.

Nemacheilus sp.

This collection not received at NMC.

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54. Hormozdgan, Mehran River 4 km below Bastak. ca. 27°05'N, ca. 54°05'E. 24-25 November 1974.

Aphanius dispar (16)

Iranocichla hormuzensis (14)

---

55. Fars, headwaters of Gowdar River along Bastak-Lar road, 41 km north of Bastak. ca. 27°24'N, ca. 54°16'E. (3 km east of Anveh in Armantrout's thesis which is at 27°23'N, 54°11'E). 25 November 1974.

Garra sp. (8)

Aphanius dispar (3)

Iranocichla hormuzensis (2)

Waters here somewhat saline.

---

56. Fars, "Chashmeh Barashk", a small spring seep pool in Gowdar River basin, 61 km north of Bastak, 7 km west from Bastak-Lar road. Barasht is at 27°24'N, 54°06'E. 25 November 1974.

Cyprinion sp. (9)

Blue heads and orange dots on body.

---



57. Fars, "Chashmeh Ab Shirin" on outskirts of Lar. ca.  
27°41'N, ca. 54°17'E. 25 November 1974.

Barbus luteus (2)

Cyprinion sp. (3)

Small spring built up into a small (5 metre diameter) pool.

---

58. Fars, qanat pool at "Ab-e Barik", 80 km north of Lar on  
Lar-Jahrom road. 25 November 1974.

Cyprinion sp. (2)

Gambusia affinis (not found; probably not kept)

Locality uncertain; kilometres and map position at variance.  
Possibly Beriz at 27°52'N, 54°09'E.

---

59. Fars, qanat flow along road to Jahrom 25 km north of #  
58. 25 November 1974.

Cyprinion sp. (5)

Gambusia affinis (not found; probably not kept)

Locality uncertain; see above. Specimens dried at one point.

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60. Fars, Mand River tributary outside Jahrom. 28°36'N,  
53°37'E. 26 November 1974.

Capoeta sp. (2)

Chalcalburnus sp. (3)

Cyprinion sp. (6)

Garra sp. (5)

Nemacheilus sp. (not found)

Mastacembelus mastacembelus (1)

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61. Fars, Mand River, approximately 30 km north of # 60 on  
Shiraz highway. ca. 28°50'N, ca. 53°20'E. 26 November 1974.

Chalcalburnus sp. (9)

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62. Fars, Barm-e Dalak. ca. 29°35'N, ca. 52°38'E. 26-27  
November 1974.

Chalcalburnus sp. (3)

Capoeta sp. (2)

Garra sp. (1)

Aphanius sophiae (not found)

Gambusia affinis (not found; probably not kept)

---

63. Fars, qanat under Sa'di's Tomb, Shiraz. 29°37'N,  
52°35'E. 27 November 1974.

Capoeta sp. (1)

Garra sp. (2)

These fish are a popular attraction and are commonly called  
"blind trout".

---



64. Fars, Sivan River, 20 km from Persepolis on Esfahan road.  
ca. 30°02'N, ca. 52°57'E. 28 November 1974.

Capoeta sp.

Chalcalburnus sp.

Nemacheilus sp.

This whole collection in very poor state and material of no  
use for counts and measurements.

---

65. Fars, qanat 4 km south of Abarqu on road to Yazd. ca.  
31°07'N, ca. 53°14'E. 28 November 1974.

Capoeta sp. (5)

---

66. Yazd, qanat at "Zarej" 10 km north of Yazd on Na'in road.  
ca. 31°58'N, ca. 54°17'E. 29 November 1974.

Capoeta sp. (1)

Partly dried at some point.

---

67. Yazd, qanat at Ardakan, 60 km north of Yazd. 32°19'N,  
53°59'E. 29 November 1974.

Capoeta sp. (2)

One specimen taken in a gill net. No surface flows or areas  
where fish could persist outside of qanats.

---

68. Esfahan, qanat at mosque in Mohammadi (= Mohammadiyah)  
suburb of Na'in. 32°51'N, 53°06'E. 29 November 1974.

Capoeta aculeata (10)

---

69. Esfahan, small courtyard pool, "Paherahneh" qanat, just  
over pass from Na'in on road to Esfahan, 100 km east of  
Esfahan. ca. 32°43'N, ca. 52°40'E. 29 November 1974.

Leuciscus lepidus (15)

---



70. Esfahan, Zayandeh River at Tanderan, 65 km west of Esfahan. 32°47'N, 51°02'E. 30 November 1974.

Capoeta sp. (16)

Leuciscus lepidus (10)

Specimens dried at some point.

---

71. Markazi, Qareh Su (= Qareh Chai) 32 km west of Arak on Arak-Borujerd road at highway bridge. 34°03'N, 49°21'E. 1 December 1974.

Alburnoides bipunctatus (4)

Capoeta aculeata (29)

Capoeta sp. (3)

Leuciscus cephalus (17)

Nemacheilus sp. (10)

Large river; ca. 100 c.f.s.

---

72. Hamadan, Malayer River at bridge 5 km "south" of Malayer. ca. 34°17'N, ca. 48°47'E. 1 December 1974.

Alburnoides bipunctatus (36)

Capoeta aculeata (16)

Capoeta sp. (13)

Chalcalburnus sp. (26)

Nemacheilus sp. (6)

---

73. Markazi, Malekabad qanat, 17 km east of Arak. 34°05'N, 49°53'E. 2 December 1974.

Capoeta aculeata (5)

Capoeta sp. (8)

---



74A. Markazi, Qom River at highway to Esfahan 50 km "west" of Qom. ca. 34°18'N, ca. 50°32'E. 2 December 1974.

Leuciscus cephalus (1)

Leuciscus lepidus (10)

These specimens appear different as preserved material from 74B; whether they are from the same locality is uncertain although Behnke's field notes only refer to collection 74.

---

74B. Markazi, Qom River at highway to Esfahan 50 km "west" of Qom. ca. 34°18'N, ca. 50°32'E. 2 December 1974.

Capoeta aculeata (8)

Capoeta sp. (5)

Leuciscus cephalus (2)

Large muddy river; ca. 100 c.f.s.

---

END OF 1974 collections.

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1976 collections

Note that these localities are based on vague dots on a map of Iran and occasional and very brief locality data in Saadati's 1977 thesis and their accuracy is none too great. Spots may not coincide with locality data. They appear in many cases to be from the river named but could equally be from a spring or qanat in the basin of that river; hence I have often referred to the locality as "..... River basin" to place it geographically and hydrographically without implying more exact knowledge.

---

1. Zanjan, Abhar River basin northwest of Abhar. ca. 36°16'N, ca. 49°08'E.

Capoeta sp. (14)

---

2. Zanjan, "Sajas" River (= Khow'in River on maps) basin north of Qeydar. ca. 36°11'N, ca. 48°36'E.

Alburnoides bipunctatus (12)

---

3. Zanjan, Zanjan River basin near Soltaniyeh. ca. 36°27'N, ca. 48°45'E.

Alburnoides bipunctatus (13)

Chalcalburnus sp. (1)

Nemacheilus sp. (10)

---

4. Zanjan, Zanjan River basin near Zanjan. ca. 36°36'N, ca. 48°32'E.

Chalcalburnus sp. (11)

Leuciscus cephalus (1)

Nemacheilus sp. (7)

---

5. Azarbaijan-e Sharqi, Qaranqu River basin, west of Sar Eskand Khan. ca. 37°25'N, ca. 46°55'E.

Capoeta sp. (26)

Nemacheilus sp. (2)

---



6. Azarbaijan-e Sharqi, Talkkeh River basin west of Sarab.  
ca. 37°56'N, ca. 47°19'E.

Capoeta sp. (4)

Leuciscus cephalus (1)

Nemacheilus sp. (2)

---

7. Azarbaijan-e Sharqi, Talkkeh River basin east of Sarab.  
ca. 37°56'N, ca. 47°41'E.

Nemacheilus sp. (12)

---

8. Azarbaijan-e Sharqi, Qareh Su basin near Nir. ca. 38°02'N,  
ca. 48°00'E.

Alburnoides bipunctatus (2)

Barbus sp. (1)

Barbus sp. (1)

Capoeta sp. (6)

Leuciscus cephalus (1)

Nemacheilus sp. (3)

---

9. Azarbaijan-e Sharqi, Qareh Su north of Ardabil. 38°22'N,  
48°19'E.

Acanthalburnus microlepis (4)

Alburnoides bipunctatus (2)

Alburnus sp. (not found)

Barbus sp. (2)

Capoeta sp. (1)

Chalcalburnus sp. (6)

---



10. Azarbaijan-e Sharqi, Qareh Su east of Lari. 38°30'N,  
48°03'E.

Barbus sp. (2)

Capoeta sp. (5)

---

11. Azarbaijan-e Sharqi, Ahar Chay at Ahar. 38°28'N, 47°03'E.

Alburnoides bipunctatus (2)

Alburnus sp. (2)

Capoeta sp. (4)

Nemacheilus sp. (7)

---

12. Azarbaijan-e Sharqi, Zilber Chay north of Marand.  
38°29'N, 45°46'E.

Alburnoides bipunctatus (14)

---

13. Azarbaijan-e Sharqi, Zilber Chay basin west of Marand.  
38°30'N, 45°23'E.

Capoeta sp. (10)

Nemacheilus sp. (9)

---

14. Azarbaijan-e Sharqi, Zilber Chay between Jolfa and Khvoy.  
38°42'N, 45°16'E.

Leuciscus cephalus (5)

---

15. Azarbaijan-e Gharbi, Qotur River south of Khvoy. 38°30'N,  
44°58'E.

Capoeta sp. (14)

Nemacheilus sp. (8)

---

16. Azarbaijan-e Gharbi, Nazlu River north of Reza'iyeh. ca.  
37°42'N, ca. 45°04'E.

Capoeta sp. (6)

---



17. Azarbaijan-e Gharbi, Shahr Chay southwest of Reza'iyeh.  
ca. 37°27'N, ca. 44°56'E.

Barbus sp. (4)

Capoeta sp. (2)

Nemacheilus sp. (2)

---

18. Azarbaijan-e Gharbi, "Qasemul" River in Baranduz Chay  
basin south of Reza'iyeh. ca. 37°25'N, ca. 45°10'E.

Alburnus sp. (6)

Alburnus atropatenae (1)

Barbus sp. (1)

Capoeta sp. (5)

Nemacheilus sp. (6)

---

19. Azarbaijan-e Gharbi, Baranduz Chay basin south of  
Reza'iyeh. ca. 37°16'N, ca. 45°08'E.

Alburnoides bipunctatus (6)

Alburnus atropatenae (2)

Barbus sp. (1)

Nemacheilus sp. (4)

---

20. Azarbaijan-e Gharbi, river south of Mahabad. ca. 36°42'N,  
ca. 45°41'E.

Acanthalburnus urmianus (1)

Barbus sp. (2)

Capoeta sp. (2)

Leuciscus cephalus (5)

---



21. Azarbaijan-e Gharbi, "Qorveh Chay" (= Kalwi Chay?) west of Mahabad which is the Zab-e Kuchek River. ca. 36°35'N, ca. 45°25'E.

Barbus sp. (2)

Capoeta sp. (1)

Chalcalburnus sp. (7)

Leuciscus cephalus (3)

Nemacheilus sp. (9)

---

22. Azarbaijan-e Gharbi, "Qorveh Chay" (= Kalwi Chay?) near Piranshahr which is the Zab-e Kuchek River. ca. 36°44'N, ca. 45°10'E.

Barbus sp. (1)

Capoeta sp. (3)

Capoeta trutta (1)

Chalcalburnus sp. (8)

Chondrostoma sp. (2)

Garra sp. (2)

Leuciscus cephalus (4)

Nemacheilus sp. (4)

---

23. Azarbaijan-e Gharbi, Tata'u River south of Miandow Ab. ca. 36°54'N, ca. 46°07'E.

Acanthalburnus urmianus (1)

Capoeta sp. (1)

Gobio persa (12)

Leuciscus cephalus (1)

---

24. Azarbaijan-e Gharbi, Zarineh River near Miandow Ab. ca. 37°00'N, ca. 46°07'E.

Capoeta sp. (4)

---



25. Kordestan, Zarineh River basin north of Saqqez. ca.  
36°18'N, ca. 46°16'E.

Alburnus atropatenae (6)

Barbus sp. (3)

Capoeta sp. (9)

Leuciscus cephalus (2)

Nemacheilus sp. (3)

---

26. Kordestan, Zarineh River basin south of Saqqez. ca.  
36°12'N, ca. 46°18'E.

Alburnus atropatenae (not found)

Barbus sp. (2)

Capoeta sp. (4)

Locality very approximate.

---

27. Kordestan, Zarineh River basin south of Saqqez. ca.  
36°06'N, ca. 46°20'E.

Acanthalburnus urmianus (1)

Alburnus atropatenae (6)

Barbus sp. (2)

Capoeta sp. (7)

Leuciscus cephalus (1)

Nemacheilus sp. (13)

---

28. Kordestan, Qezel Owzan River basin near Divandarreh. ca.  
35°52'N, ca. 47°05'E.

Alburnoides bipunctatus (2)

Barbus sp. (1)

Capoeta sp. (9)

Chalcalburnus sp. (16)

Leuciscus cephalus (1)

Nemacheilus sp. (17)

---



29. Kordestan, Qezel Owzan River basin near Bijar. ca.  
35°54'N, ca. 47°20'E.

Barbus sp. (1)

Capoeta sp. (10)

Chalcalburnus sp. (3)

Nemacheilus sp. (8)

---

30. Kordestan, Qeshlaq River basin north of Sanandaj. ca.  
35°33'N, ca. 47°08'E.

Capoeta sp. (8)

---

31. Kordestan, Qeshlaq River basin south of Sanandaj. ca.  
35°16'N, ca. 47°01'E.

Barbus sp. (3)

Capoeta sp. (7)

Capoeta trutta (8)

Chalcalburnus sp. (7)

Cyprinion sp. (1)

Garra sp. (10)

Leuciscus cephalus (1)

---

32. Kordestan, Yuzidar River basin. ca. 35°05'N, ca. 46°56'E.

Barbus sp. (1)

Capoeta sp. (15)

Capoeta trutta (3)

Chalcalburnus sp. (1)

Garra sp. (1)

---



33. Kermanshahan, Alvand River near Sar-e Pol-e Zahab. ca.  
34°36'N, ca. 45°56'E.

Barbus sp. (1)

Barbus sp. (1)

Chalcalburnus sp. (2)

Chondrostoma sp. (2)

Cyprinion sp. (6)

Garra sp. (11)

---

34. Kermanshahan, "Kerend" River basin near Shahabad-e Gharb.  
ca. 34°06'N, ca. 46°30'E.

Alburnoides bipunctatus (2)

Chalcalburnus sp. (1)

Cyprinion sp. (6)

Garra sp. (19)

---

35. Kermanshahan, "Razavar" River 35 km northwest of  
Kermanshah, Qareh Su tributary. ca. 34°25'N, ca. 47°01'E.

Barbus sp. (2)

Capoeta sp. (1)

Chalcalburnus sp. (1)

Chondrostoma sp. (2)

Cyprinion sp. (1)

Leuciscus cephalus (1)

---

36. Kermanshahan, Qareh Su basin north of Kermanshah. ca.  
34°28'N, ca. 46°54'E.

Acanthobrama sp. (1)

Chalcalburnus sp. (13)

---



37. Kermanshahan, Qareh Su basin north of Kermanshah. ca.  
34°34'N, ca. 46°47'E.

Alburnoides bipunctatus (8)

Capoeta sp. (1)

Chalcalburnus sp. (not found)

Chondrostoma sp. (3)

Cyprinion sp. (6)

Nemacheilus sp. (1)

Nemacheilus kermanshahensis (2)

---

38. Kermanshahan, "Gamasiab" River basin west of Sahneh. ca.  
34°28'N, ca. 47°36'E.

Capoeta trutta (2)

Capoeta sp. (4)

Chalcalburnus sp. (3)

Cyprinion sp. (12)

Garra sp. (4)

Nemacheilus sp. (2)

---

39. Kermanshahan, "Gamasiab" River basin near Sahneh. ca.  
34°24'N, ca. 47°40'E.

Barbus sp. (5)

Capoeta sp. (1)

Capoeta sp. (1)

Capoeta trutta (2)

Cyprinion sp. (1)

---



40. Kermanshahan, Bid Sorkh River between Sahneh and Kangavar, "Gamasiab" River basin. ca. 34°23'N, ca. 47°52'E.

Alburnoides bipunctatus (14)

Barbus sp. (not found)

Pseudophoxinus sp. (lost; not found by me at Fort Collins and not received at NMC)

Nemacheilus sp. (17)

Locality approximate.

---

41. Kermanshahan, "Jallfan" River, "Gamasiab" River tributary near Kangavar. ca. 34°29'N, ca. 47°56'E.

Barbus sp. (not found)

Capoeta sp. (8)

Capoeta sp. (not found)

Chalcalburnus sp. (6)

Chondrostoma sp. (not found)

Locality approximate. Collection badly decayed.

---

42. Kermanshahan, "Gamasiab" River basin near Kangavar. ca. 34°25'N, ca. 47°55'E

Capoeta sp.

Capoeta sp.

Chalcalburnus sp.

Chondrostoma sp.

Garra sp.

Nemacheilus sp.

Nemacheilus sp.

Locality approximate. Collection not received at NMC.

---



43. Kermanshahan, "Gamasiab" River basin near Kangavar. ca.  
34°31'N. ca. 48°03'E.

Capoeta sp. (1)

Chalcalburnus sp. (2)

Chondrostoma sp. (17)

Cobitis taenia (1)

Nemacheilus sp. (8)

Locality approximate.

---

44. Hamadan, near Hamadan (probably Ab Chay in Daryacheh-ye  
Namak basin). ca. 34°49'N, ca. 48°29'E.

Capoeta aculeata (15)

Capoeta sp. (1)

Leuciscus cephalus (25)

---

45. Hamadan, Qareh Su basin north of Hamadan. ca. 35°03'N,  
ca. 48°42'E.

Barbus sp. (1)

Capoeta aculeata (7)

Leuciscus cephalus (9)

Collection partly decayed.

---

46. Hamadan, Qareh Su basin north of Razan. ca. 35°25'N, ca.  
49°02'E.

Alburnoides bipunctatus (3)

Capoeta sp. (3)

Nemacheilus sp. (6)

Nemacheilus malapterurus (5)

---



47. Markazi, Khar River basin south of Takestan. ca. 35°56'N,  
ca. 49°30'E.

Capoeta aculeata (12)

Capoeta sp. (1)

Capoeta sp. (2)

Leuciscus cephalus (1)

---

END OF 1976 COLLECTIONS

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OTHER COLLECTIONS

---

MMTT (uncatalogued). Lorestan, "Kaaje-ru", cave entrance, tributary of "Ab-e Serum" near village of "Levan", approximately 12 km north of railway station Tang-e Haft. The "Ab-e Serum runs into the "Ab-e Zezar" which is a tributary of the Dez River. 33°05'N, 48°36'E. 28 January 1977. Bruce Sanford, Mohammed Jazebi, Siaed Hosseini.

Nemacheilus smithi (5)

This collection had 8 specimens in it and 3 were sent to the British Museum (Natural History), London from Fort Collins, Colorado.

---

MMTT 1218-1226, Lorestan, same locality as above. 31 May 1976. B. Sanford, S. Hosseini Emami, H. Hashemi Nezhad, M. Ayatollahi.

Iranocypris typhlops (8)

This collection comprised 9 specimens but only 8 were received at NMC (possibly 1 fish was sent to the British Museum (Natural History)).

---

MMTT 1227-1228, Lorestan, same locality as above.

Nemacheilus smithi (2)

Not received at NMC.

---

MMTT 1230 (lot). Lorestan, same locality as above.

Iranocypris typhlops (12)

Not received at NMC

---

No number. ?, "Kozem or Rozem Chai", Lake Reza'iyeh.

Nemacheilus sp. (5)

---



No number. Two labels in one jar reading "Arhar Chai, Azerbaijan" and "some from Gharhe-su R., Azerbaijan". These are in the Qareh Su basin of Azarbaijan-e Sharqi.

Alburnoides bipunctatus (6)

Alburnus sp. (2)

Nemacheilus sp. (3)

---

No number. "Luniz" River in Karaj Basin. Presumably a tributary of the Karaj River in Markazi.

Salmo trutta (3)

---

No number. Azarbaijan-e Sharqi, "Lighvan Chai", a Reza'iyeh basin tributary draining the east slopes of Kuh-e Sahand about 40 km southeast of Tabriz.

Salmo trutta (8)

---

No number. "Aldarvish River, Mt. Savalan". The Kuhha-ye Sabalan at 38°15'N, 47°49'E is a mountain with streams draining to the Caspian Sea and the Lake Reza'iyeh basin in Azarbaijan-e Sharqi.

Salmo trutta (7)

---



The following collections were mixed in some fashion or labels had fallen off specimens. They are merely recorded here as received at NMC without further data or identification.

---

MMTT 496. No data.

5 fishes (includes Iranocichla hormuzensis, Barbus and Cyprinion).

My notes from Fort Collins read "Persian Gulf, Bandar Abbas, Minab River".

---

MMTT 494, 495, 497 (all in one jar)

31 fishes including Cyprinion, Aphanius, Garra, Nemacheilus and Capoeta.

Label reads "MMTT Minab R., Gul R. ABBAS.? 10 Feb 72 Raymond Ralonde?"

---

MMTT 437, 547

2 fish

Labels read Marakeh R., Luristan and Kermanshah but which fish belongs to which label is not known.

---

MMTT 229, 674 and 862

3 fish

No data.

---





سازمان خانت محیازیت

تاریخ

شماره

پوست

۲۲- استان آذربایجان غربی ۲ کیلومتری جنوب غربی شهرستان میاندوآب حوزه

1. *Leuciscus cephalus orientalis*
2. *Abramis urumiensis* : گونه های
3. *V. e. gracilis*
4. *Golius persae*

۲۴- استان آذربایجان غربی شهرستان میاندوآب - رودخانه زرینه رود حوزه آبریز

- 1- *V. e. gracilis* دریاچه رضائیه
- ماهی اسبله در این رودخانه وجود دارد.

۲۵- استان کردستان ۱۰ کیلومتری شمال سقز رودخانه گون ، ده مهرآباد

1. *V. e. gracilis*
2. *B. caucasicus*
3. *Alburnus* sp.
4. *Nemachilus* sp
5. some fry silberoids <sup>LL 32</sup> <sub>or very few</sub>

۲۶- استان کردستان ۱۶ کیلومتری جنوب شرقی شهرستان سقز حوزه آبریز دریاچه

1. *V. capota gracilis*
2. *Barbus caucasicus* رضائیه
3. *Alburnus philippii*

۲۷- استان کردستان ۳۰ کیلومتری جنوب شرقی شهرستان سقز رودخانه نورفوره

- \* 1. *Alburnus philippii*
3. *V. e. gracilis*
- \* 5. *Nemachilus* sp
- \* 2. *Alburnus* sp
4. *Leuciscus garderanus*

۲۸- استان کردستان بخش دیواندره ۸۰ کیلومتری شمال غربی شهرستان سنندج

رودخانه نظرس.

Regain



#135

ch.

mouth terminal

D.F. II 8

A.F. II 12

V.F. II 8

L.L. 79  $\frac{12}{3}$

G.R. 12

no barbles

mouth sub

D.F. II 9

A.F. II 10

V.F. II 7

L.L. 57  $\frac{9}{5}$

G.R. 24

no barbles

Ph. Teeth 6.6

mouth terminal

D.F. II 8

A.F. II 8

V.F. II 8

L.L. 45  $\frac{7}{3}$

no barbles

eyepinon

D.F. II 13

A.F. II 7

V.F. II 7

L.L. 43  $\frac{7}{4}$

55(7)





# سازمان حفاظت محیط زیست

تاریخ

شماره

پوست

۲۹- استان کردستان ۷۶ کیلومتری شمال سنندج رودخانه قزل اوزون قریه شماره

۳۰- استان کردستان ۲۶ کیلومتری شمال سنندج حلیترخان ( حسین آباد )

1- *V. sp* ( like umbra ) or

۳۱- استان کردستان ۱۱ کیلومتری جنوب سنندج رودخانه تشلاق گ. گونه های :

1- *V. Trutta*

۴. unknown sp.

6. *Ch. moselensis*

2- *V. damascinus*

5. *Barbus barbulus*

7. *Garra sp*

8. *Cyprinus macrostomus*

۳۲- استان کردستان ۷۵ کیلومتری جنوب سنندج رودخانه گاوه . گونه های :

1- *Garra rufa*

3. *V. Trutta*

5- *Amasial abernus* ( ch.

2- *V. damascinus*

۴. *B. Barbulus*

1- *Barbus luteus*

۳۳- استان کرمانشاهان- قصر شیرین رودخانه الوند . گونه های :

۴. *Chalchabernus moselensis* ?

2. *Cyprinus macrostomus*

5- *Barbus Barbulus*

3. *Chondrostoma*

6- *Garra rufa*

۳۴- استان کرمانشاهان ، شاه آباد غرب ، رودخانه برف آباد . گونه های :

1- *Cyprinus macrostomus*

3- *Chalchabernus*

2- *Alburnoid sp*

4-

۳۵- استان کرمانشاهان- ۳۵ کیلومتری شمال غربی کرمانشاه ، ۵ کیلومتری ابتدای

جاده کرمانشاه- پاوه ، رودخانه راز آور ( قره سو ) . گونه های :

1- *V. Trutta*

2. *Chondrostoma sp.*

3. *Barbus Barbulus*

4. *Chalchabernus sp*

5. an unknown species

*C. macrostomus*





# سازمان حفاظت محیط زیست

تاریخ .....

شماره .....

پوست .....

\* ۲۶۷ - استان کرمانشاهان - ۱۰ کیلومتری ابتدای جاده کرمانشاه - پاره سراب و

1. only one sp. probably *Chalchabrenus mauseleensis* but there is some different in collar and shape چشمه اریابی

\* ۲۷ - استان کرمانشاهان - بخش روانسر - سرچشمه رودخانه قره سو.

- Alburnoides sp ?  
 2 - *Cyprinion macrostomus* 4 - *V. damascinus* : گونه های  
only on small sp.  
 3 - *Nemacheilus* 5 - three unknown species.

\* ۲۸ - استان کرمانشاهان - نزدیک کوه بیستون رودخانه دینه ور. گونه های :

- 1 - *Cyprinion mastomus* 5, *Nemacheilus* sp  
 2 - *V. Trutta*  
 3 - *V. macrolepis* X  
 4 - ch. *Chalchaele*

\* ۲۹ - استان کرمانشاهان ۵۰ کیلومتری شمال شرقی کرمانشاه بطرف همدان رودخانه

\* گاماسیاب

- X 1 - *Barbus barbulus* ?  
 2 - *B. lacerta*  
 3 - *Cyprinion macrostomus*  
 4 - *V. macrolepis*  
 5 - *V. damascinus*  
 6 - *V. Trutta*

نوم شماره ۷۲ ت ۱۰





# سازمان حفاظت محیط زیست

تاریخ

شماره

پوست

۴۰ - استان کرمانشاهان ۶ کیلومتری شرق (صحنه) روستای بیدسخ .

1- *Barbus lacerta*

(چشمه بیدسخ) . گونه های :

2. *Alburnoides* spp

\* 3. *e. remachilus* .

چشمه پراز گیاهان آبی و میگوی آب شیرین

۲۵/۲/۲۲

۴۱ - استان کرمانشاهان ۱۵ کیلومتری غرب کنگاور روستای آران - سزاب (چشمه)

1 - *V. baratercula*

5 - unknown sp.

2 - *V. Trutta*

"دینه" جاری به گاماسیاب

3. *Alburnus orientis*

4. *chalcobermus* .

۴۲ - استان کرمانشاهان ۵ کیلومتری غرب شهرستان کنگاور - رودخانه سرپل کنگاور

1 - *V. damascinus*

3. *cha.* 4. *Al*

2 - *V. macrolepis*

4. 2 sp of *remachilus*

۴۳ - استان همدان آبادی خسروآباد ۴۶ کیلومتری شمال شرقی کنگاور -

۲۰ کیلومتری جنوب غربی همدان رودخانه قره چای جاری به گاماسیاب

1 - *Chalcobermus* sp

\* - two other unidentified species





# سازمان حفاظت محیط زیست

تاریخ .....

شماره .....

پوست .....

۴۴ - استان همدان - زیر سد شهنواز رودخانه یلغان ۱۴ کیلومتری جنوب همدان

1- *V. macrolepis*

بطرف ملایر رده ارزانفوت . گونه های:

2 *A. lherminieri* sp.

۴۵ - استان همدان . ۴ کیلومتری شمال شرقی همدان بطرف قزوین . رودخانه

1- *V. macrolepis*

قره چای آبادی کوردجان

2- *V. damascinus*

3- *L. cephalus orientalis*

۴۶ - استان همدان بخش رزن - رودخانه رزن ۷۴ کیلومتری شمال شرقی همدان .

1- *Nemachilus* sp. <sup>شخص داره</sup> گونه های :

2- *V. damascinus*

3. *Alburnoid bipunctatus*

۲۵/۷/۲۴

۴۷ - استان مرکزی ۲۵ کیلومتری شمال شرقی آوج رودخانه خر رود .

1- *V. macrolepis*

2- *L. Cephalus*





## سازمان حفاظت محیط زیست

تاریخ .....

شماره .....

پوست .....

کارهای انجام شده : ۲۵۳۵/۷/۱۲

۱- رودخانه نورون آبادی فیض آباد - ۷ کیلومتری شمال غربی شهرستان ابهر  
استان زنجان .

۲- استان زنجان - از توابع قیصار

۴ کیلومتری شرق مجیدآباد - چمن مجیدآباد ( چشمه مجیدآباد )

۲ کیلومتری جنوب شرقی زنجان .

۲- استان زنجان - تیماور ( رودخانه ) ۲۴ کیلومتری شرق زنجان

۴- استان زنجان - ۱۰ کیلومتری شرق زنجان رودخانه دیزج آباد

۵- استان آذربایجان شرقی - ۷۰ کیلومتری جنوب شرقی استان آباد رودخانه شهری ( بند )

گونه های نمونه برداری شده در ایستگاه ۴





# سازمان حفاظت محیط زیست

تاریخ

شماره

پوست

- ۶- استان آذربایجان شرقی - ۲۰ کیلومتری جنوب غربی سراب ✓  
 X 1- *V. c. gracillus* (more L.L. than west ones)  
 X 2- *L. c. orientalis* (different ~~to~~ with west ones) رودخانه آجی چای

- ۷- استان آذربایجان شرقی - ۲۵ کیلومتری شمال شرقی سراب رودخانه کاظم چای ✓  
 1- *Nemachilus* (1)

- ۸- استان آذربایجان شرقی - شهرستان نیر - ۲ کیلومتری جنوب نیر روخانه بولاج سو چای

- ۹- استان آذربایجان شرقی - رودخانه سامیان از شعبات رودخانه قره سو - ۲۰ کیلومتری شمال غربی اردبیل

- ۱۰- استان آذربایجان شرقی - ۳۵ کیلومتری شمال شرقی شهرستان مشکین شهر رودخانه برازمان از شعبات قره سو جاری از ارتفاعات سیلان.

- ۱۱- استان آذربایجان شرقی - ۲ کیلومتری جنوب غربی اهر - رودخانه اهر





## سازمان حفاظت محیط زیست

تاریخ \_\_\_\_\_

شماره \_\_\_\_\_

پوست \_\_\_\_\_

۱۲- استان آذربایجان شرقی ۴ کیلومتری بطرف جلغا رودخانه ( قنات ) کهریز

۱۳- استان آذربایجان شرقی ۲۰ کیلومتری شمال غربی مرند ۵۰ کیلومتری دهکده  
کوشک سرای رودخانه زنور

۱۴- استان آذربایجان شرقی ۶۰ کیلومتری شمال غربی مرند بطرف ماکو حدود ۵  
کیلومتری بالاتراز دوراهن شاهراه یازرگان خوی ده سیاه باز - رودخانه سیاه باز

۱۵- استان آذربایجان غربی ۴ کیلومتری جنوب غربی شهرستان خوی رودخانه قطور  
جای ~~حوضه آبریز رضائیه~~

۱۶- استان آذربایجان غربی ۱۷ کیلومتری شمال رضائیه بطرف شهرستان شاهپور ✓

رودخانه نازلوجای - حوضه آبریز رضائیه ( دریاچه ) *1 - v. c. gracillio* ①

۱۷- استان آذربایجان غربی ۸ کیلومتری جنوب غربی شهرستان رضائیه - رودخانه ✓

برده سورجای ( بگش لویجای ) حوضه آبریز دریاچه رضائیه

B 1. *Barbus caucasicus* (كسكس)

B 2. *remachulio*

ردم شماره ۷۲ ت ۱۳





سازمان خاقت مجازیت

تاریخ

شماره

پوست

۱۸- استان آذربایجان غربی ۳۰ کیلومتری جنوب غربی شهرستان رضائیه حوزه آبریز

- 1- *V. C. gracilis*
- 2- *Alburnoides* sp. دریاچه رضائیه.
- 3- *Alburnoides philippi* (only one small sp.)
- 4- *Nemachilus* sp.

۱۹- استان آذربایجان غربی ۳۰ کیلومتری جنوب غربی رضائیه رودخانه قاسم و حوزه

- 1- *Alburnus philippi*
- 2- *Alburnoides bipunctatus eschwaldi* گونه های
- 3- *Nemachilus* sp.

۲۰- سرشاهپور اول مهاباد استان آذربایجان غربی حوزه آبریز دریاچه رضائیه.

- 1- *Leuciscus cephalus* az. ماهی اسبله نیز در این مسر وجود دارد.
- 2- *Acanthobrama* sp.
- 3- *V. C. gracillius*
- 4- *Barbus caucasicus*

۲۱- ۵۰ کیلومتری غرب شهرستان مهاباد استان آذربایجان غربی رودخانه لیگین

- 1- *Nemachilus*
- 2- *Chalchoburnus moselensis*
- 3- *Barbus lacerta*

۲۲- ۶۰ کیلومتری جنوب شهرستان مهاباد - رودخانه کرده چای

- 1- *one unknown* sp.
- 2- *Nemachilus* sp.
- 3- *Garra rufiffa*
- 4- *V. damscimus*
- 5- *V. Trutta*
- 6- *L. sp.* but different in A.F.
- 7- *V. umbra* ?
- 8- *Chondrostoma*
- 9- *Chalchoburnus moselensis*
- 10- *one small sp. B. lacerta*

Tigris, B.



