ЦРНОГОРСКА АКАДЕМИЈА НАУКА И УМЈЕТНОСТИ
ГЛАСНИК ОДЈЕЉЕЊА ПРИРОДНИХ НАУКА, 23, 2019.

ЧЕРНОГОРСКАЯ АКАДЕМИЯ НАУК И ИСКУССТВ
ГЛАСНИК ОТДЕЛЕНИЯ ЕСТЕСТВЕННЫХ НАУК, 23, 2019

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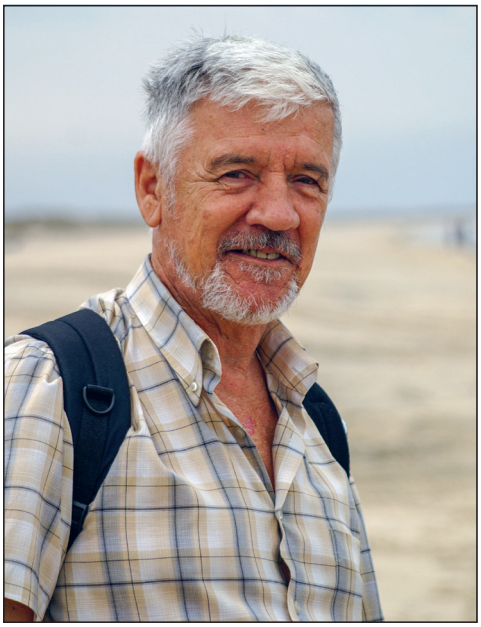
Drago Marić[*]

ŽIVOTNI PUT I RAD AKADEMIKA GORDANA S. KARAMANA (80 godina života i 60 godina stvaralačkog rada)

Ovaj vanredni broj *Glasnika Odjeljenja prirodnih nauka* Crnogorske akademije nauka i umjetnosti posvećen je, povodom 80. godišnjice života i 60. godišnjice naučnog rada, redovnom članu Crnogorske akademije nauka i umjetnosti, akademiku prof. dr emer. Gordanu S. Karamanu.



Gordan S. Karaman

Imam veliko zadovoljstvo i privilegiju da tim povodom predstavim kratak pregled života i rada ovog veoma značajnog biologa, naučnika i istraživača, društvenog radnika i profesora univerziteta, koji je cijeli svoj radni vijek proveo u Crnoj Gori.

„Život je kratak, život je dug, kolika je to istina zavisi od toga na koji ga način mjerimo, i šta u stvari mjerimo u njemu“, govorio je više puta akademik Gordan Karaman, a na radost mnogih njegov još nije završen. Sa akademikom Karamanom život je brzo prolazio, uvijek veseo i raspoložen, zanimljivi razgovori o zanimljivim temama.

[*] Drago Marić, Prirodno-matematički fakultet, Podgorica. E-mail: *dragomrc@yahoo.com*

Autor ovog teksta punih četrdeset godina poznaje akademika Karamana. U tom periodu, a i danas, razgovarali smo o mnogim temama. Najviše smo pričali o izvorima, rijekama, pećinama, kraškim poljima i, naravno, o živom svijetu u njima.

KRATKA BIOGRAFIJA

Akademik Gordan S. Karaman rođen je 1. 10. 1938. godine u Skoplju (Sjeverna Makedonija), u porodici koja je dala četrnaest biologa, od kojih dvanaest doktora bioloških nauka.

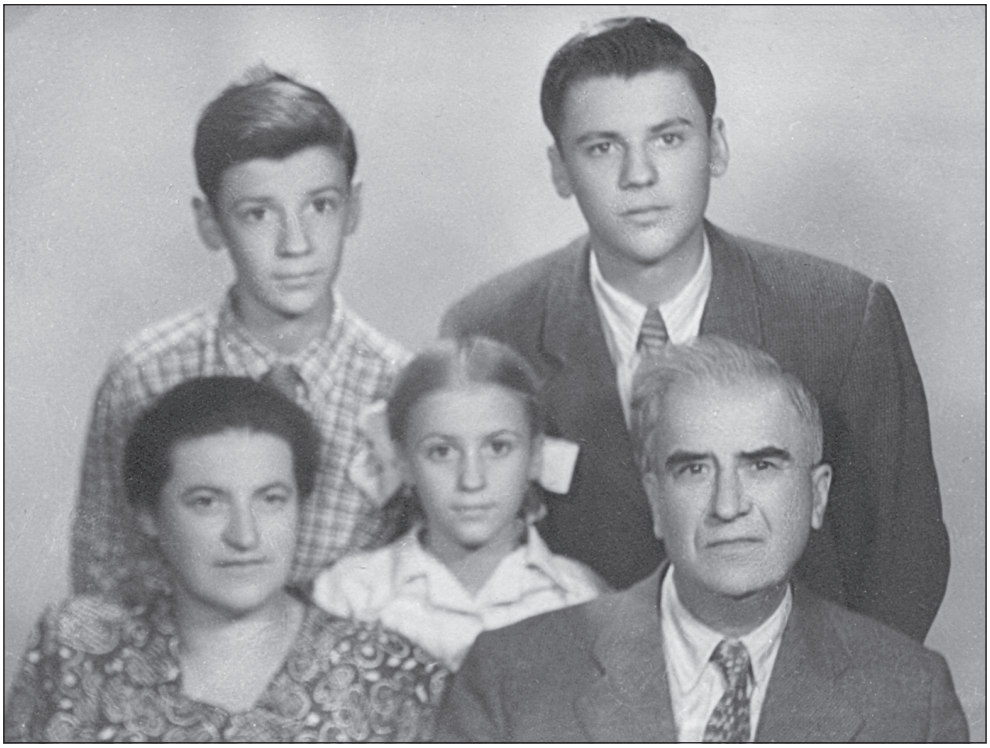
Luka Karaman

Njegov djed Luka Karaman bio je biolog, studirao je na Filozofskom fakultetu u Beču zoologiju, botaniku i hemiju (1873–1876). Radio je u Mostaru i Sarajevu, bio je upravnik Trgovačke škole i direktor Realke. Osnovao je šumarski odsjek i predavao anatomiju drveća.

Njegov najstariji sin dr Stanko L. Karaman pošao je očevim stopama i bio je poznati svjetski naučnik, biolog. Proučavao je razne vrste životinja Evrope i Male Azije. Pored ostalog, otkrio je i opisao i nekoliko novih vrsta riba i rakova iz Crne Gore, bio je osnivač Prirodnjačkog muzeja u Skoplju i njegovih naučnih časopisa kao i Zoološkog vrta i Gradskog parka. Prof. dr Zora Karaman, supruga dr Stanka, bila je poznati biolog entomolog, proučavala je entomofaunu i opisala niz vrsta insekata novih za nauku.

Stankova djeca Mladen, Gordan i Biljana također su postali poznati naučnici biolozi. Tradicija biologa se nastavila i kod njihove djece. Gordanova djeca dr Vesna G. Karaman Kastro, botaničar, sin dr Marko G. Karaman, entomolog, proučava mrave (Formicidae), a supruga Božana Karaman, kustos-savjetnik, proučava puževe (Gastropoda).

Uoči početka Drugog svjetskog rata Gordan Karaman je sa bratom Mladenom otišao u Split gdje je sa tetkom Darinkom i bakom Ankom proveo sve teške godine rata. Gordan je osnovnu školu pohađao u Splitu pa su mu baka i tetka bile prvi pomagači u savlađivanju i razumijevanju školskog gradiva.



Porodica Karaman: majka Zora, otac Stanko, sestra Biljana, braća Gordan i Mladen.
The family Karaman: mother Zora, father Stanko, sister Biljana, brothers Gordan and Mladen

Poslije rata otac Stanko, majka Zora i sestra Biljana došli su iz Smedereva u Split kod djece. Tu su živjeli do 1950. godine, da bi zatim, poslije preseljenja porodice u Dubrovnik, tamo završio malu maturu. U Dubrovniku je otac Stanko bio direktor Biološkog instituta, a majka kustos u Dubrovačkom muzeju. Međutim, već 1954. godine se porodica seli ponovo u Skoplje, gdje je otac radio kao kustos u Prirodnjačkom muzeju, a majka kao profesor na Poljoprivredno-šumarskom fakultetu. U Skoplju Gordan završava gimnaziju 1957. godine. Odmah upisuje Prirodno-matematički fakultet u Skoplju, odsjek biologije, koji završava 1961. godine kao prvi u generaciji. Po završetku vojnog roka 1962. godine prijavljuje doktorsku tezu u Beogradu, koju uspješno brani 1964. godine na Prirodno-matematičkom fakultetu u Beogradu pod naslovom „Taksonomija i ekologija podroda *Gammarus* (*Rivulogammarus* S. Kar.) u Jugoslaviji“, i tako postaje najmlađi doktor bioloških nauka tadašnje Jugoslavije.

Godine 1963. Gordan dolazi u Crnu Goru i ostaje, ne napuštajući je ni u najtežim vremenima, kada su izazovi za odlazak u inostranstvo bili veoma veliki i atraktivni. Zavolio je Crnu Goru, ostao je da dijeli njenu sudbinu sa svom onom mladalačkom energijom i željom da upravo u sredini koja obiluje prirodnim

ljepotama i biodiverzitetom nađe svoje mjesto, pomogne razvoju nauke i naučne misli, edukuje mlađe. Međutim, kako ne bi ostao na marginama nauke, proveo je dosta vremena na raznim specijalizacijama i usavršavanjima u inostranstvu.

U Crnu Goru je došao u novoosnovani Zavod za biologiju mora u Kotoru kao asistent u oblasti morskog zoobentosa, da bi 1967. godine prešao u Biološki zavod u Podgorici (Vranjina) kao naučni saradnik u oblasti hidrobiologije i zoobentosa kopnenih voda.

Za višeg naučnog saradnika izabran je 1972. godine, da bi već 1976. bio izabran u zvanje naučnog savjetnika u istom institutu, koji je promjenio ime u Institut za biološka i medicinska istraživanja. Generalni direktor tog instituta je bio 1980–1982. godine. Poslije dvije godine rada shvatio je da zbog obimnosti posla u datim okolnostima nije moguće savjesno obavljati i posao rukovodioca i baviti se ozbiljnim naučnim radom, pa se povukao sa mjesta direktora i vratio svome naučnoistraživačkom radu. Uporedo sa naučnim radom, tokom osamdesetih godina prošlog vijeka, predavao je kao profesor na Višoj pedagoškoj školi u Nikšiću.

Gordan učestvuje u formiranju Odsjeka za biologiju Prirodno-matematičkog fakulteta u Podgorici 1990. godine i izabran je 1991. godine za Redovnog profesora tog fakulteta za predmete Invertebrata i Ekologija zivotinja sa zoogeografijom. Kasnije je u dva mandata bio šef odsjeka za biologiju Prirodno-matematičkog fakulteta, da bi 2004. godine otišao u penziju. Godine 2005. izabran je u zvanje profesora emeritusa fakulteta, odnosno Univerziteta u Podgorici.

Međutim, akademik Karaman je i poslije penzionisanja nastavio sa svojim naučnoistraživačkim i nastavno-obrazovnim radom. Dvije godine predavao je na Univerzitetu „Donja Gorica“ u Podgorici predmet Filozofija zoologije, ukazujući studentima postdiplomcima tijesnu povezanost bioloških nauka i ekonomije i dokazujući da se u suštini svi zakoni koji vladaju u prirodi, neminovno odražavaju na ekonomiju koja treba da koristi njen obrazac i koja podliježe istim zakonima prirode.

RAD U NAUCI I STRUCI

Akademik Karaman je odrastajući u familiji biologa preuzeo svu onu ljubav i poštovanje koje zaljubljenici u prirodu i njene ljepote nose u sebi, interesujući se za razne oblike života, ali ostajući vjeran zoologiji: proučavao je razne grupe životinja, naročito grupu rakova Amphipoda, te insekte Formicidae (mrave), Apterygota i Curculionidae, iako iz ove dvije posljednje grupe nije objavljivao radove.

Pred kraj života oca Stanka Gordan je odlučio da nastavi očeva istraživanja na grupi Amphipoda, o čemu je, sa ocem, objavio dva naučna rada. Poslije očeve smrti 1959. godine, Gordan je nastavio sa istraživanjima Amphipoda

G. Karaman, W. Vader, T. Krapp, E. Bousfield

S. Ruffo, G. Karaman

kontinentalnih voda, a kada je došao u Kotor, u Zavod za biologiju mora, proširio je svoja proučavanja i na biocenoze mora i morsku bentosku faunu, uključujući i Amphipoda, i ta proučavanja nastavio je i u Biološkom zavodu i na Prirodno-matematičkom fakultetu u Podgorici sve do danas.

Svoja prva i najvažnija saznanja o prirodnim naukama, ljubav prema prirodi, načine sakupljanja biološkog materijala, tehnike naučnoistraživačkog rada i sl., Gordan je naučio u ranoj mladosti od oca i majke koji su kao biolozi išli po terenu, pećinama, planinama, rijekima, vodeći često i djecu sa sobom tokom sakupljanja i proučavanja materijala za istraživanja. Kasnije je svoja znanja upotpunjavao kroz mnoge studijske boravke u inostranstvu: kod čuvenog profesora Sandra Ruffoa u Prirodnjačkom muzeju u Veroni (Italija), kod prof. K. Jazdzewskog na Univerzitetu u Lodzu (Poljska), kod prof. H. Grunera u Prirodnjačkom muzeju u Berlinu (Njemačka), kod prof. E. Bousfielda u Prirodnjačkom muzeju u Ottawi (Kanada), kod prof. R. Ginea na Univerzitetu u Lionu (Francuska), kod prof. J. Barnarda u Smithsonian institutu u Washingtonu (USA), kod prof. S. Pinkstera na Univerzitetu u Amsterdamu (Holandija) itd.

Saradnja sa domaćim i inostranim istraživačima nije se ograničila samo na odlazak akademika Karamana u njihove institute, već su mnogi istraživači dolazili u Crnu Goru kod akademika Karamana da zajedno istražuju Amphipoda (prof. J. Barnard iz Smithsonian instituta; prof. S. Ruffo iz Verone, prof. Gruner

iz Berlina, prof. S. Pinkster iz Amsterdama; Prof. E. Tibaldi iz Milana; prof. S. Gottstein i Mg. R. Ozimec iz Zagreba, B. Sket iz Ljubljane, prof. G. Pesce iz Aquile itd.). Sa mnogima od njih je akademik Karaman objavio niz zajedničkih radova i monografija.

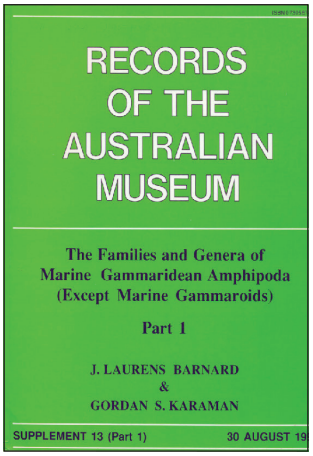
Akademik Karaman rukovodio je nizom međunarodnih i domaćih naučnih projekata i bio je njihov nosilac i učesnik. Tijesna saradnja sa mnogim istraživačima Amphipoda iz Evrope rezultirala je i zajedničkim projektom istraživanja Amphipoda Sredozemnog mora i izradom monumentalne monografije o fauni Amphipoda Mediterana izdatoj u Monaku u 4 knjige (1982–1993), koja predstavlja i danas osnovu za istraživanje morskih Amphipoda u Evropi, a u kojoj je akademik Karaman bio i koordinator i koautor [Ruffo, S. (ed.). The Amphipoda of the Mediterranean. u 4 volumena [1982–1993].

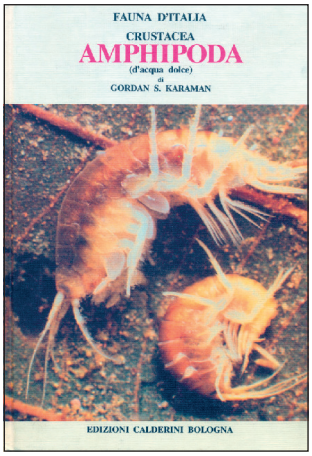
Veoma uspješna saradnja sa istraživačima iz SAD rezultirala je petogodišnjom saradnjom Instituta za biološka istraživanja u Podgorici i nizom američkih instituta i fakulteta (1972–1977), gdje je akademik Karaman bio rukovodilac projekta sa crnogorske strane, što je rezultiralo objavljivanjem monografije: *The biota and Limnology of Lake Skadar* u Podgorici 1981. godine (Urednici: G. Karaman & A. Beeton).

Akademik Karaman je kao korisnik Fulbrajtove stipendije boravio u Smithsonian institutu u Washingtonu 1977/1978. godine radi proučavanja morskih Amphipoda svjetskih okeana kod prof. Jerryja Barnarda, eksperta svjetskog glasa iz oblasti Amphipoda. Akademik Karaman je tu saradnju nastavio i poslije povratka u Podgoricu, organizujući jedan zajednički novi projekat između Biološkog instituta u Podgorici i Smithsonian instituta u Vašingtonu „Comparative investigations of Amphipoda in fresh and sea waters“ (1980–1982) (koordinatori Barnard, J. L. and G. Karaman), što je rezultiralo zajedničkim istraživanjima i publikovanjem niza zajedničkih radova, kao i izdavanjem kapitalne monografije o fauni morskih Amphipoda svijeta u dva toma, štampane u Australiji 1991. godine [Barnard, J. L. & Karaman, G. 1991: The Families and Genera of Marine Gammaridean Amphipoda (Except Marine Gammaroids). Part 1 and 2. — Records of the Australian Museum, Supplement 13 (parts 1 and 2): 1–866], koja i danas predstavlja osnovu za sva savremena istraživanja te grupe organizama.

Akademik Karaman posebno je bio vezan za Italiju i Prirodnjački muzej u Veroni gdje je boravio mnogo puta kod prof. Sandra Ruffoa, publikujući rezultate mnogih istraživanja samostalno ili u saradnji sa njim.

Istovremeno, kao rezultat višegodišnjih istraživanja faune Amphipoda slatkih voda Italije, Karaman je objavio monografiju o fauni Amphipoda Italije na italijanskom i engleskom jeziku [Karaman, G. 1993a. Crustacea Amphipoda di acqua dolce. — Fauna d`Italia, vol. XXXI: 1–337, Edizione Calderini Bologna,





Italia], kapitalnoj monografiji o amfipodima, koja je dosad jedina te vrste na tom području Evrope.

Akademik Karaman zna nekoliko stranih jezika (italijanski, francuski, njemački, engleski, slovenački, makedonski), a objavljivao je svoje radove na francuskom, njemačkom, italijanskom i engleskom jeziku. Sve to mu je svakako olakšavalo međunarodnu saradnju sa drugim institucijama i stručnjacima, kao i držanje predavanja o svojim istraživanjima (Univerzitet u Milanu, Rumunska akademija nauka itd.).

Istraživanja akademika Karamana obuhvatala su niz oblasti: od istraživanja faune Amphipoda kopnenih voda (rijeka, izvora, jezera, podzemnih voda, pećina, bunara itd.) i mora, istraživanja zoobentosa Jadranskog mora i problem njegove zagađenosti, istraživanja ekologije slatkovodnih sistema i faune dna rijeka i jezera, istraživanja Formicida (mrava) zajedno sa sinom Markom, pa do problema očuvanja biodiverziteta u okvirima održivog razvoja i problema taksonomije danas, otkrivajući i opisujući mnogobrojne za nauku nove rodove i vrste u svojim radovima, publikovanim u domaćim i inostranim naučnim časopisima.

Kada govorimo o geografskim oblastima čiju faunu Amphipoda je akademik Karaman istraživao, obuhvatio je svih pet kontinenata, od Sjeverne i Južne Amerike, Afrike, Madagaskara, Šri Lanke, Azije, preko Bajkalskog jezera, Kine, Koreje do Polinezije, Australije i Antarktika.

Najveći broj naučnih radova objavio je u časopisima Crne Gore, časopisima koji su tada bili manje poznati i skromnog dizajna. Međutim, akademik Karaman je smatrao da naučnik treba prije svega da pomogne svojoj zemlji objavljujući radove u njenim časopisima, kako bi se saznanje i interesovanje u svijetu o toj zemlji i njenoj nauci podiglo na viši nivo. Akademik Karaman je shvatio da u današnje vrijeme digitalizacije i elektronike nije više važno gdje se objavljuju radovi, nego kvalitet samih radova i jezik na kome su napisani. Tako, na primjer,

radovi o proučavanjima Amphipoda Japana, Kine, Afganistana itd., objavljeni u časopisima Crne Gore, citirani su u radovima mnogih drugih inostranih autora. Akademik Karaman je smatrao da ne treba insistirati da mladi naučnici moraju objavljivati radove u inostranim časopisima kao uslov za napredovanje u službi, već da treba podići kvalitet domaćih časopisa na ugledni međunarodni nivo, gdje bi domaći naučnici publikovali svoje radove, jer se rezultatima naših naučnika objavljenim u inostranim časopisima podiže ugled inostranih časopisa umjesto domaćih.

Akademik Karaman bio je član redakcija domaćih i inostranih naučnih časopisa: *Acta Adriatica*, Split (Hrvatska); *Biologia Serbica*, Novi Sad (Srbia); *Journal Contributions Macedonian Academy of Sciences and Arts*, Skoplje (Sjeverna Makedonia); *Entomological journal Onychium*, Firenze (Italija) itd., u nekima je i danas aktivan član. Jedan je od urednika međunarodnog naučnog časopisa *Zootaxa* (New Zealand).

Kao poznati naučnik i odličan istraživač akademik Karaman učestvovao je na mnogobrojnim naučnim skupovima i kongresima u zemlji i inostranstvu, od Evrope do Amerike, pokazujući da i male zemlje mogu imati naučnike i stručnjake ravnopravne sa onima iz velikih zemalja koje raspolažu mnogo većim materijalnim i ekonomskim mogućnostima. Akademik Karaman je sam vršio istraživanja u svojoj skromnoj laboratoriji na Institutu u Podgorici, na fakultetu ili u svojoj osobnoj laboratoriji kod kuće.

Boraveći u sredini koja je bila u zamahu svog razvoja, gdje je nauka još bila na skromnom nivou, akademik Karaman se trudio da i on doprinese razvoju Crne Gore učestvujući i sam u tome kroz razne funkcije i rad u društvima koja su se tada organizovala.

Upoznajući mnogobrojne prirodne ljepote Crne Gore, a posebno njene mnogobrojne pećine, niz godina je aktivno učestvovao u organizaciji i radu Speleološkog saveza i društava u Crnoj Gori, bio njegov predsjednik i član. Podučavao je mlade speleologe biodiverzitetu živog svijeta u pećinama i njihovoj vrijednosti i važnosti za nauku i za Crnu Goru i potrebama njihove zaštite, organizujući razne speleološke aktivnosti i posjete mnogim speleološkim objektima (Obodska pećina kod Cetinja, Navotinska pećina kod Berana, pećina u Donjoj Pokljuki kod Knezlaza, pećine kod Risna, kod Virpazara, kod Nikšića itd.), sakupljajući i materijal podzemnih Amphipoda u njima. Rezultati tih istraživanja kasnije su bili objavljeni u naučnim radovima akademika Karamana.

Njegova velika ljubav prema prirodi i ljepotama Crne Gore dovela ga je i na mjesto predsjednika Naučnog savjeta Javnog preduzeća Nacionalni parkovi Crne Gore, gdje se zalagao za zaštitu prirode u nacionalnim parkovima i njihovu adekvatnu valorizaciju.

Sa speleolozima pred Vjetrenicom pećinom, Hercegovina
With speleologists in front of Vjetrenica Cave, Herzegovina

Kao profesor na Univerzitetu u Podgorici, trudio se da studentima ne samo prenese svoje znanje iz određenih oblasti, već da im ukaže na potrebu da sami razmišljaju o toj problematici i nauče da razlikuju važno od nevažnoga, pamteći neophodne podatke. Koliko je u tome uspio najbolje govore podaci da su mnogi njegovi bivši studenti danas doktori bioloških nauka, profesori univerziteta, direktori naučnih ustanova, ugledni istraživači u raznim naučnim ustanovama, muzejima ili drugim nastavnim ustanovama, kako u Crnoj Gori tako i u inostranstvu.

Bio je veoma korektan prema asistentima koje je uvodio u tajne naučnog rada i pomagao im da savladaju načine pisanja naučnih radova, ali nije nikad objavio rad sa njima, smatrajući svojom obavezom da im pomogne u njihovom istraživanju i pisanju radova, ali da profesor ne treba da to iskoristi dopisujući svoje ime kao koautor. Učestvovao je u pripremama i odbrani mnogih doktorata u Crnoj Gori i u inostranstvu.

Akademik Karaman je izabran za vanrednog člana Crnogorske akademije nauka i umjetnosti 1988. godine, a za redovnog člana 1993. godine. Bio je i sekretar Odjeljenja prirodnih nauka CANU, kao i član Odbora za naučnoistraživački rad CANU, a sada je predsjednik Odbora za biologiju i hemiju Odjeljenja prirodnih nauka CANU.

U okviru rada u samoj Akademiji akademik Karaman se sa pojedinim akademicima intenzivno zalagao za osnivanje Prirodnjačkog muzeja Crne Gore kao ustanove čija djelatnost treba da objedinjava naučnu, obrazovnu i kulturnu sferu ljudskog shvatanja i djelatnosti u Crnoj Gori. Spremno se uključio u realizaciju osnivanja te ustanove kao član Organizacionog odbora za formiranje muzeja osnovanog 1995. godine.

Učestvujući aktivno u oblasti naučnog rada CANU, akademik Karaman je shvatio da veliko bogatstvo biodiverziteta Crne Gore treba proučiti i zaštititi, pa je organizovao izradu makroprojekta „Biodiverzitet Crne Gore“, kojim on rukovodi duži niz godina. U okviru tog projekta objavljen je niz publikacija kataloga faune i flore Crne Gore (Formicidae, Pisces, Amphipoda, Gastropoda, Amphibia, dijelovi flore Crne Gore, itd.) kao i štampanje same faune pojedinih grupa

organizama Crne Gore (*Ribe Crne Gore* itd.), dok su mnogi rukopisi u štampi ili u pripremi za publikovanje.

Akademik Karaman je dosad objavio oko 337 naučnih radova i monografija, u kojima je opisao oko 255 vrsta i podvrsta, 113 rodova i podrodova kao i 6 familija novih za nauku, sam ili u saradnji sa drugim istraživačima.

Mnoge novootkrivene vrste akademik Karaman posvetio je (dao im je ime) svojim bliskim i dragim saradnicima (*Gammarus stankokaramani*, *Niphargus ruffoi*, *Niphargus pulevici*, *Syrrhoites barnardi* itd.). Sa druge strane, i mnogi istraživači iz raznih oblasti nauke posvetili su akademiku Karamanu mnoge vrste imenujući ih njegovim imenom (*Carinurus karamani*, *Elaphoidella gordani* itd.).

Njegov naučni rad visoko je cijenjen u naučnim krugovima u svijetu, o čemu najbolje govori visoka citiranost njegovih radova.

Godine 2008. održan je međunarodni naučni skup u Boki Kotorskoj (Bijela) posvećen akademiku Gordanu Karamanu (50 godina rada i 70 godina života). Tom prilikom uručena mu je plaketa i priznanje Zoološkog instituta Nacionalne akademije Ukrajine, kao i plaketa organizatora kongresa. Posebno mu je draga plaketa dodijeljena 2013. godine na 15. Kongresu amphipodologa svijeta u Poljskoj u ime njihovog naučnog komiteta sa posvetom: *For Gordan Karaman in appreciation of his life-long work proving that Amphipoda are his way of life*.

Akademik Karaman član je četiri akademije nauka: Crnogorske akademije nauka i umjetnosti (član od 1988. godine), inostrani član Akademije nauka Bosne i Hercegovine (od 2009. godine), član Evropske akademije nauka i umjetnosti (od 2014. godine), inostrani član Ruske akademije nauka i umjetnosti (Odjeljenje prirodnih nauka, od 2019. godine).

Posebno želim naglasiti doprinos akademika Karamana naučnoj misli i uopšte razvoju nauke u Crnoj Gori u kojoj je proveo svoj radni vijek, boreći se za odgovarajuće mjesto i razvoj nauke u savremenom crnogorskom društvu, ne nailazeći često dovoljno razumijevanja za to.

Uvijek je smatrao da naučni rad traži velike žrtve u životu i da je velika privilegija baviti se naukom. Govorio je da su veoma srećni oni ljudi kojima je bavljenje naukom i hobi i struka, kao što je to bio slučaj kod njega.

Karamanova shvatanja, koja je uvijek isticao svojim asistentima i saradnicima, da se pravim naučnikom postaje samo onda kada se nauka prihvata kao sastavni dio života, a ne samo kao sredstvo za egzistenciju, i da je glavna odlika svakog naučnika njegova skromnost i strpljenje — izgleda da ostaju kao besmrtne vrijednosti koje odolijevaju svim vremenima.

Nadam se da će akademik Gordan Karaman još dugi niz godina nastaviti sa svojim naučnim radom i druženjima sa svojim kolegama i prijateljima, jer akademik Gordan Karaman nije stari naučnik, on je, prije svega, naučnog starog

kova, naučnik koji s istim elanom i sada kao i u prošlosti istražuje prirodu iz radoznalosti, iz potrebe da je otkriva.

Oni koji ga malo poznaju sigurno bi bili iznenađeni drugim poljima njegova interesovanja: od klasične muzike koju obožava, čitanja dobrih knjiga, odlazaka u pozorište, do svemira koji u slobodno vrijeme upoznaje kroz savremenu literaturu.

Pronađe on slobodnog vremena i da sanjari, pa iz tih njegovih snova nastanu pjesme, ne nekoliko, već preko 80. Navešću samo jednu, onu koja bi mogla biti njemu posvećena da ju je neko drugi napisao.

STARI NAUČNIK

Ostario naučnik u salonu sjedi,
I godine broji, protekle ko dane,
Koje za nauku, na oltar od mjeđi.
Ostavi u zalog, od mladosti rane.

Ona stalna sumnja koja njega prati,
Trnovitim putem tog teškog zanata:
Da li je sve tačno? Da li ću sve znati?
Istina je možda, sad tu iza vrata.

Al' istina prava, ako i postoji,
Primamljiva nije za svakog jednako.
On hoće da žmuri, čas opet da broji,
Naš naučnik stari, te brojeve lako.

A brojevi, misli, hoće da su oni
Apsolutna vrijednost ovoga života,
Sekunde i dani, godine, eoni,
I ljubav i mržnja, ruglo i ljepota.

Stari sad naučnik zadovoljan sjedi,
Sretan što mu život protekao tako,
Sakupljanjem znanja koje nekom vrijedi,
Sad može da gasne, nečujno, polako.

Drago Marić[*]

LIFE PATH AND WORK OF ACADEMICIAN GORDAN S. KARAMAN (80 years of life and 60 years of professional work)

This special issue of the Journal of the Department of Natural Sciences of the Montenegrin Academy of Sciences and Arts is dedicated to the full member of the Montenegrin Academy of Sciences and Arts, Academician Prof. Dr Gordan S. Karaman, Emeritus Professor, on the occasion of celebrating 80 years of life and 60 years of his scientific work.

It is a great pleasure and privilege for me to present, on this very occasion, a short overview of life and work of this distinguished biologist, scientist and researcher, person involved in social issues, and university professor, who has spent his entire professional life in Montenegro.

"Life is short, and life is long, how much of this is true depends on the way we measure it, and what we measure actually within it", Academician Gordan Karaman has repeated multiple times, and to the joy of many his life path is still in progress. With Academician Gordan Karaman, time was passing quickly, he being always cheerful and in good spirit, having interesting conversations on interesting topics.

The author of this text has known Academician Karaman for 40 years. In all this time, up to this very day, we have discussed a plethora of issues. We have mostly talked about springs, rivers, caves, karst fields and, of course, about the flora and fauna that inhabit them.

SHORT BIOGRAPHY

Academician Gordan S. Karaman was born on October 1st, 1938 in Skopje (North Macedonia), in a family which produced 14 biologists of whom 12 had PhDs in biology sciences.

[*] Drago Marić, Faculty of Natural Sciences and Mathematics, Podgorica

His grandfather **Luka Karaman** was a biologist who studied zoology, botany and chemistry at the Faculty of Philosophy in Vienna (1873–1876). He worked in Mostar and Sarajevo, was the director of the Commercial School and the Middle Comprehensive School. He founded the Department of Forestry and taught Anatomy of trees.

Luka's eldest son, **Dr Stanko L. Karaman**, had followed into his father's footsteps and was a world-famous scientist — biologist, who studied various species of animals in Europe and Asia Minor. Among other things, he discovered and described several new species of fish and crabs in Montenegro, was the founder of the Natural Museum in Skopje and its scientific journals, as well as the founder of its Zoo and City Park. Dr Stanko's wife, Prof. Dr Zora Karaman, was a renowned biologist-entomologist who investigated entomofauna, and described a series of species of insects up to then unknown to science.

Stanko's children Mladen, Gordan, and Biljana have also become noted scientists biologists. The tradition of biologists has continued over their children. The children of Gordan, Dr Vesna G. Karaman Kastro botanist, son Dr Marko G. Karaman entomologist, examining ants (Formicidae). The wife of Gordan, Božana Karaman is biologist, custos counselor, who examines snails (Gastropoda).

Before the beginning of the Second World War, Gordan Karaman went with his brother Mladen to Split, where he spent the difficult war years with his aunt Darinka and grandmother Anka. Gordan attended primary school in Split, thus, having his aunt and grandmother as his first instructors in understanding and mastering school curriculum.

After the war, his father Stanko, mother Zora and sister Biljana came from Smederevo to Split to join the boys. They lived there until 1950 and then moved to Dubrovnik, where Gordan completed primary school. In Dubrovnik, his father Stanko was director of the Institute for Biology, and his mother worked as a curator at the Museum of Dubrovnik. However, already in 1954, the family moved to Skopje, where Stanko was a curator in the Natural Museum, and Zora a professor of entomology at the Faculty for Agriculture and Forestry. In Skopje, Gordan completed grammar school in 1957. After that, he enrolled in the Biology department of the Faculty of Natural Sciences and Mathematics in Skopje and graduated from it in 1961, as the first in his generation. After completing the compulsory military training in 1962, he submitted his PhD thesis proposal in Belgrade, and defended it successfully in 1964 at the Faculty of Natural Sciences and Mathematics in Belgrade on the topic "Taxonomy and ecology of the subgenus *Gammarus* (*Rivulogammarus* S. Kar.) in Yugoslavia", thus becoming the youngest doctor of biological sciences in Yugoslavia at the time.

In 1963 Gordan came to Montenegro, and stayed in it, not leaving it even in the most difficult of times, when the temptations of emigration were strong and

appealing. He grew fond of the country and stayed in it to share its fate, investing all of his juvenal energy and desire in finding his place in that environment abundant in natural beauties and biodiversity, helping the development of science and scientific thought and educating young generations. However, in order not to be left on the margins of science, he spent a lot of time at various specializations and professional trainings abroad.

His first employment was in the newly founded Institute for Marine Biology in Kotor as an assistant in the area of sea zoobenthos and then went on to work at the Biological Institute in Podgorica (Vranjina) in 1967, as a scientific associate in the field of hydrobiology and zoobenthos of inland waters.

He was elected a senior science associate in 1972 and already in 1976 promoted to the rank of scientific advisor in the same Institute, which changed name into the Institute for Biological and Medical Research. He was the managing director of that Institute in the period 1980–1982. After two years of work he realized that the workload in the given circumstances would prevent him from performing conscientiously both in the managing position and scientific work, so he withdrew from the position of director and returned to his scientific-research work. In the 1980s, in parallel with his scientific work he was a professor at the Higher School for Pedagogy in Nikšić.

Gordan took part in the establishment of the Department of Biology at the Faculty of Natural sciences and Mathematics in Podgorica in 1990, and was promoted in 1991 to full Professor at that Faculty in the area of Invertebrates and Ecology of animals with zoogeography. Later, he was chair of the Department of Biology at the Faculty of Natural Sciences and Mathematics in two mandates, where he remained until his retirement in 2004. In 2005 he was elected Professor Emeritus at the University in Podgorica.

However, even after his retirement, Academician Karaman has continued his scientific, research and pedagogical work. Two years he taught "Philosophy of Zoology" at the University Donja Gorica in Podgorica, pointing out to postgraduate students to the close connection of biological sciences and economy and proving that, in essence, all the laws ruling in nature reflect inevitably on economy which should use the pattern of nature as is subject to the same natural laws.

SCIENTIFIC AND PROFESSIONAL WORK

Growing up in the family of biologists, Academician Karaman inherited all the love and respect that those who are enamoured with nature and its beauties carry within themselves, taking interest in various forms of life, still remaining faithful to zoology: he studied various groups of animals, especially the group of crabs Amphipoda and insects Formicidae (ants), Apterygota and Curculionidae, although he did not publish papers on these last two groups.

E. Bousfield, G. Karaman, J. L. Barnard

C. O. Coleman, J. Lowry, B. Sket, G. Karaman

By the end of his father Stanko's life, Gordan decided to continue his father's research on Amphipoda and co-authored two papers with him. After his father's death in 1959, Gordan continued research of Amphipoda of inland waters, and when he came to the Institute for Marine Biology in Kotor, he expanded his investigations to biocenosis of the sea and marine benthic fauna including Amphipoda and has continued to carry out research on them in the Biological Institute and the Faculty of Natural Sciences and Mathematics in Podgorica up to nowadays.

It were his parents who provided Gordan with his first and the most significant knowledge on natural sciences, love towards the nature, the ways of collecting biological material, research methodology, etc. Being biologists themselves, they were used to field work and visited caves, mountains, rivers, taking often children along when gathering and examining the material for their research. Later on, he completed his knowledge through many study stays abroad: with famous Professor Sandro Ruffo from the Museum of Natural History in Verona (Italy), with Prof. K. Jazdzewski from the University in Lodge (Poland), with Prof. H. Gruner from the Museum of Natural History in Berlin (Germany), with Prof. E. Bousfield from the Museum of Natural History in Ottawa (Canada), with Prof. R. Gine from the University in Lyon (France), with Prof. J. Barnard from the Smithsonian Institute in Washington, D. C. (USA), with Prof. S. Pinkster from the University in Amsterdam (Holland), etc.

His collaboration with researchers at home and abroad was not limited only to visits of Academician Karaman to their institutes, but many researchers came to Montenegro to participate in joint research with Academician Karaman on Amphipoda (Prof. J. Barnard from Smithsonian Institute in Washington, D. C, Prof. S. Ruffo from Verona, Prof. Gruner from Berlin, Prof. S. Pinkster from Amsterdam, Prof. E. Tibaldi from Milano, Prof. S. Gottstein and Mg. R. Ozimec from

Zagreb, B. Sket from Ljubljana, Prof. G. Pesce from Aquila, etc). Academician Karaman has co-authored numerous papers and monographs with many of them.

Academician Karaman has been part of a number of international and national scientific projects, both as a participant and as coordinator. His close collaboration with many researchers of Amphipoda in Europe resulted in a joint research project of the Amphipoda of the Mediterranean Sea and in creating a monumental monograph on the Amphipoda of the Mediterranean published in Monaco in 4 volumes (1982–1993), which even today represents the basis for research of sea Amphipoda in Europe, in which Academician Karaman was engaged as both a coordinator and co-author [Ruffo, S. (ed.). The Amphipoda of the Mediterranean in 4 volumes [1982–1993].

A very successful cooperation with researchers from USA resulted in a five-year project of the Biological Institute in Podgorica and a number of American institutes and faculties (1972–1977). Academician Karaman was the project leader from the Montenegrin side and the cooperation led to the monograph *The biota and Limnology of Lake Skadar* published in Podgorica in 1981 (Editors: G. Karaman & A. Beeton).

As a Fulbright alumnus, Academician Karaman stayed at the Smithsonian Institute in Washington in 1977/1978, in order to study the sea Amphipoda of world oceans with Prof. Jerry Barnard, the world-renowned expert in Amphipoda. Academician Karaman continued this collaboration also after his return to Podgorica, by launching a new joint project of the Biological Institute in Podgorica and the Smithsonian Institute in Washington, D. C. *Comparative investigations of Amphipoda in fresh and sea waters* (1980–1982) (coordinators: Barnard, J. L. and G. Karaman), which resulted in joint research, the publication of a series of co-authored papers and the capital monograph on the Amphipoda of the World in two volumes, printed in Australia in 1991 [Barnard, J. L. & Karaman, G. 1991: *The Families and Genera of Marine Gammaridean Amphipoda (Except Marine Gammaroids)*. Part 1 and 2 — Records of the Australian Museum, Supplement 13 (parts 1 and 2): 1–866], which is still a basis for all contemporary research of that group of organisms.

Academician Karaman established special connections with Italy and the Natural History Museum in Verona where he stayed many times with Prof. Sandro Ruffo and published his results both individually and in co-authorship with the Professor Ruffo.

At the same time, as a result of a long-term research of the Amphipoda of Italian fresh waters, Karaman published a monograph on the Amphipoda of Italy both in Italian and English [Karaman, G. 1993a. *Crustacea Amphipoda di aqua dolce — Fauna d`Italia*, vol. XXXI: 1–337, Edizione Calderini Bologna,

Italia.], a capital monograph on Amphipoda, so far the one of the kind in this part of Europe.

Academician Karaman gained knowledge of several foreign languages (Italian, French, German, English, Slovenian, Macedonian), and has published his works in French, German, Italian and English. The knowledge of foreign languages was certainly helpful in terms of international cooperation with other institutions and experts, and enabled him to give lectures on his research (University in Milan, the Romanian Academy of Sciences, etc.)

Academician Karaman's research encompassed several areas such as the Amphipoda of fresh waters (rivers, springs, lakes, subterranean waters, caves, wells, etc.) and seas, the zoobenthos of the Mediterranean sea and the problem of its pollution, the ecology of the systems of fresh waters and the fauna of river and lake beds, research on Formicidae (ants) together with his son Marko, addressing the problems of preserving biodiversity within the frames of the sustainable development and the problems of taxonomy today. He discovered and described many new genera and species in his papers published in domestic and foreign journals.

When we speak about geographic areas where Academician Karaman has investigated Amphipoda, they spread over all five continents, from Northern and South America, Africa, Madagascar, Shri Lanka, Asia, to Baikal Lake, China, Corea, Polinesia, Australia and the Antarctic.

Most of his scientific papers were published in Montenegrin journals, which were, at that time, less known and technically not so well equipped. However, Academician Karaman believed that a scientist should above all to serve his own country by publishing papers in its journals, in order to enhance the world's awareness about and interest in one's country and its science rise to the next level. Academician Karaman has realized that in the times of digitalization and electronics, it is the quality of papers and the language in which they are written that matters very important, not where they are published.

Therefore, for example, the papers on the Amphipoda of Japan, China, Afghanistan etc, published in the journals of Montenegro, are cited in the papers of many other authors from abroad. Academician Karaman holds the conviction that one should not insist that young scientists publish their papers in foreign journals as a prerequisite for promotion, but that the quality of national journals should be raised to meet a respectable international level, so that our scholars could publish their papers in them, since by publishing the results of their work in foreign magazines they contribute to the recognition of foreign instead of domestic journals.

Academician Karaman was member of the editorial boards of numerous domestic and foreign scientific journals: *Acta Adriatica*, Split (Croatia); *Biologia*

Serbica, Novi Sad (Serbia); *Journal Contributions of the Macedonian Academy of Sciences and Arts*, Skopje (N. Macedonia); *Entomological journal Onychium*, Firenze (Italy) etc, and in some of them he is, still, an active member. He is one of the editors of the international scientific journal *Zootaxa* (New Zealand).

As a famous scientist and an excellent researcher, Academician Karaman has participated in numerous scientific meetings and congresses both in Montenegro and abroad, from Europe to America, demonstrating that even small countries can have scientists and experts equal to their peers in big countries who can benefit from much greater resources and economic opportunities. Academician Karaman has conducted research by himself in his modest laboratory at the Institute in Podgorica, at the Faculty, or in his personal laboratory at home.

Living in a fast-developing environment where science was still at a modest level, Academician Karaman tried to contribute to the development of Montenegro by holding various positions and working in societies that were founded back then. Discovering vast natural beauties of Montenegro, especially its many caves, for a number of years, he took an active part in the organization and activities of the Speleological Union and associations in Montenegro, being its president and member. He educated young speleologists in biodiversity of the living world in caves and their value and importance for science and for Montenegro and the need to protect them, by organizing various speleological activities and visits to numerous speleological objects (Obodska cave near Cetinje, Navotinska cave near Berane, Cave in Donja Pokljuka near Knezlaz, cave near Risan, near Virpazar, near Nikšić, etc.), and collecting there also the material of their subterranean Amphipoda. The results of this research were later published in Academician Karaman's scientific papers.

His passionate love for nature and its beauties in Montenegro brought him to the position of the President of the Scientific Council of the Public Company National Parks of Montenegro, where he tried to better preserve the nature within national parks and secure their proper valorization.

As a Professor at the University in Podgorica, he strived not only to pass his knowledge in particular areas to students, but to instruct them to think for themselves about the studied topic and learn to differentiate between what is important and what is not, remembering, though, all the necessary data. The best proof of how much he has succeeded in that endeavor is the sheer fact that many of his former students today are doctors in biological sciences, university professors, directors and respectable researchers in various scientific institutions, museums and other pedagogical institutions, both in Montenegro and abroad.

He was very professional in his attitude towards his assistants whom he introduced into the secrets of scientific work and helped master the methodology of writing scientific papers, but has never co-authored a paper with them,

considering it his obligation to help them in their research and writing, without using this opportunity to add his name as a coauthor. He participated in preparing and presentation of many PhD theses in Montenegro and abroad.

Academician Karaman was elected an associate member of the Montenegrin Academy of Sciences and Arts in 1988, and a full member in 1993. He served as Secretary of the Division of Natural Sciences of MASA, as well as a member of the Committee for scientific-research work of MASA, and now is acting as President of the Committee for Biology and Chemistry within the MASA Division of Natural Sciences.

Within the work performed at the Academy, Academician Karaman, together with some other members of the Academy, intensively worked towards the foundation of the Museum of Natural History of Montenegro as an institution which will include in its activity scientific, educational and cultural sphere of human thought and work in Montenegro. He readily engaged in the realization of this endeavor, as member of the Organizing Committee for the foundation of the Museum, that opened in 1995.

In participating actively in the scientific work of MASA, Academician Karaman was aware that the abundant biodiversity of Montenegro should be studied and protected and, thus, he launched the macro-project *Biodiversity of Montenegro*, which he has been coordinating for several years now. Within this project, a number of publications have been issued of the Catalogue of the Fauna and Flora of Montenegro (Formicidae, Pisces, Amphipoda, Gastropoda, Amphibia, parts of flora of Montenegro, etc), alongside publications on the fauna of particular groups of organisms in Montenegro (Fish of Montenegro, etc.), whereas many manuscripts are either in press or being prepared for publication.

Academician Karaman published nearly 337 scientific papers and monographies, in which he described alone or in association with other scientists, nearly 255 species and subspecies, 113 genera and subgenera and 6 families new for the science.

Academician Karaman has dedicated and named many newly discovered species after his close and dear associates (*Gammarus stankokaramani*, *Niphargus ruffoi*, *Niphargus pulevici*, *Syrrhoites barnardi* etc.). On the other hand, many researchers from various scientific areas have devoted to Academician Karaman many species by naming them after him (*Carinurus karamani, Elaphoidella gordani* etc.).

His scientific work is highly acclaimed in scientific circles in the world, which is most articulated in the high citation of his papers by other researchers.

In 2008 an International conference was held in Boka Kotorska (Bijela) to mark 50 years of work and 70 years of life of Academician Gordan Karaman, on which ocassion he was presented with a Plaque and a Diploma of the Zoological

institute of the National Academy of Ukraine, as well as the Plaque of the organizer of the Congress. He especially cherishes the Plaque awarded to him on behalf of the scientific committee of the 15th Congress of Amphipoda scholars of the world in Poland in 2013, with the inscription *For Gordan Karaman in appreciation of his life-long work proving that Amphipoda are his way of life*.

Academician Karaman is a member of four academies of science: besides his home institution, the Montenegrin Academy of Sciences and Arts, of which he has been a member since 1988, he was elected a foreign member of the Academy of Sciences and Arts of Bosnia and Herzegovina in 2009, a member of the European Academy of Sciences and Arts in 2014, as well as a foreign member of the Russian Academy of Sciences and Arts (Division of Natural Sciences) in 2019.

I want to particularly emphasize the contribution of Academician Karaman to the scientific thought and to the science development in general in Montenegro in which he has spent his professional life, struggling for the adequate place and the development of science within the contemporary Montenegrin society, often without finding enough understanding for this.

He always thought that scientific work requires great sacrifices in life, and that it is a great privilege to be engaged in science. He used to say that those are very lucky to whom science is both a hobby and a profession, as it was in his case.

It seems that Karaman's views, which he has never failed to share with his assistants and associates, that one becomes a real scientist only when one understands science as an integral part of life and not only as a means to secure existence, and that the main characteristics of a scientist are modesty and patience, remain permanent values which endure in all times.

I hope that Academician Gordan Karaman will continue his scientific work and companionship with colleagues and friends for many more years to come, because Academician Gordan Karaman is not an old scientist, but primarily an old-school scientist, who, with the same enthusiasm as in the beginning of his career, explores nature out of genuine curiosity, committed to revealing it.

Those who do not know him so well would be surprised to find out about his other fields of interest. His interests span across various areas: from listening to classical music that he enjoys passionately, reading good books, going to the theater, to learning about the universe which he does in his spare time consulting the cutting-edge literature on the topic.

He manages to find free time for daydreaming, out of which poems are born, and not only a few, but over 80.

RODOVI I VRSTE POSVEĆENI AKADEMIKU GORDANU S. KARAMANU

GENERA AND SPECIES DEDICATED TO ACADEMICIAN GORDAN S. KARAMAN

RODOVI
GENERA

Genus *Gordania*, gen. nov., Berge & Vader, 2000 (Amphipoda) [typus generis: *Stegocephaloides camoti* J. L. Barnard, 1967]

Genus *Gordanitocrella*, gen. nov., Karanović & Hancock, 2009 (Copepoda) [typus generis: *Gordanitocrella trajani* gen. & sp. nov., T. Karanović & P. Hancock, 2009]

VRSTE
SPECIES

***Abrolophus karamani* sp. nov.** R. Haitlinger & M. Šundić, 2019 (Acari, Prostigmata)

***Ampelisca karamani*, sp. nov.,** Goeke, G. D. & Heard, R. W, 1984 (Amphipoda)

***Aturus gordani*, sp. nov.,** Pešić, 2002 (Hydrocarina)

***Autonoe karamani*, sp. nov.,** Myers, 1976 (Amphipoda)

***Carinurus karamani* sp. nov.,** Kamaltynov, 2001 (Amphipoda)

***Crematogaster gordani*, sp. nov.,** M. Karaman, 2008 (Formicidae)

***Cyphoththalmus gordani*, sp. nov.,** I. Karaman, 2009 (Opiliones)

***Elaphoidella gordani*, sp. nov.,** Karanović, 1999 (Copepoda)

***Elasmopus karamani*, sp. nov.,** Souza-Filho & Senna, 2009 (Amphipoda);

***Harpinia karamani*, sp. nov.,** King, 2004 (Amphipoda)

***Megacyclops gordani*, sp. nov.,** Petkovski, 1971 (Copepoda)

***Rhipidogammarus gordankaramani*, sp. nov.,** M. Özbek & B. Sket, 2019 (Amphipoda)

***Rhipidogammarus karamani*, sp. nov.,** Stock, 1971 (Amphipoda)

***Sokarnopsis karamani*, sp. nov.,** Ortiz et al., 2003 (Amphipoda)
***Strouhaloniscellus gordani*, sp. nov.,** I. Karaman, 2019 (Isopoda)
***Tegenaria gordani* sp. nov.,** M. Komnenov, 2019 (Arachnida, Araneae)
***Zenkevitchia karamani*, sp. nov.,** Sidorov, 2016 (Amphipoda)

NOVI TAKSONI ZA NAUKU OPISANI OD AKADEMIKA G. S. KARAMANA

NEW TAXA FOR SCIENCES DESCRIBED BY ACADEMICIAN G. S. KARAMAN

Napomena: Pregled novih taksona je dat onako kako ih je autor citirao prilikom opisa, ne ulazeći u njihov sadašnji status. Kako je taksonomija danas veoma fluidna i stalno se mijenja u saglasnosti sa trenutnim različitim pogledima na kriterijume kojima se taksoni odredjuju, status pojedinih taksona se može tumačiti na razne načine u različitim vremenima, pa i danas.

Acknowledgement: Review of new taxa is given as the author has cited them in description, not having in view their current status. As the taxonomy of today is very fluid and constantly changing according to the different views on the current criteria by which taxa have been defined, the status of certain taxa can be interpreted in various ways in different times, even today.

FAMILIJE
FAMILIES

1. **Bolttsiidae**, fam. nov., J. L. Barnard & G. Karaman, 1987 [typus familiae: *Bolttsia* Griffiths, 1976]
2. **Cardenioidae**, fam. nov., J. L. Barnard & G. Karaman, 1987 [typus familiae: *Cardenio* Stebbing, 1888]
3. **Clarenciidae**, fam. nov., J. L. Barnard & G. Karaman, 1987 [typus familiae: *Clarencia* K. H. Barnard, 1931]
4. **Exoedicerotiae**, fam. nov., J. L. Barnard & G. Karaman, 1983 [typus familiae: *Exoediceros* Stebbing, 1899]
5. **Paracalliopiidae** fam. nov., J. L. Barnard & G. Karaman, 1982 [typus familiae: *Paracalliope* Stebbing, 1899]
6. **Pseudoniphargidae** fam. nov., G. Karaman, 1993 [typus familiae: *Pseudoniphargus* Chevreux, 1901]

RODOVI I PODRODOVI
GENERA AND SUBGENERA

1. ***Abdia***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Atylopsis latipalpus* Walker & Scott, 1903]

2. ***Abludogammarus***, gen. nov., G. Karaman, 1980 [typus generis: *Gammarus flavus* Dybowsky, 1874]
3. ***Abludomelita***, gen. nov., G. Karaman, 1981 [typus generis: *Melita gladiosa* Bate, 1862]
4. ***Accubogammarus***, gen. nov., G. Karaman, 1974 [typus generis: *Typhlogammarus algor* G. Karaman, 1973]
5. ***Afridiella***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Bogidiella somala* Ruffo, 1970]
6. ***Afrocrangonyx***, gen. nov., G. Karaman, 1981 [typus generis: *Metacrangonyx spinicaudatus* G. Karaman & Pesce, 1980]
7. ***Afrogitanopsis***, gen. nov., G. Karaman, 1980 [typus generis: *Gitanopsis paguri* Myers, 1974]
8. ***Animoceradocus***, gen. nov., G. Karaman, 1984 [typus generis: *Megamoera semiserrata* Bate, 1862]
9. ***Anisoiphimedia***, gen. nov., G. Karaman, 1980 [typus generis: *Iphimedia haurakiensis* Hurley, 1954]
10. ***Alsacomelita***, gen. nov., G. Karaman, 1984, fossil [typus generis: *Alsacomelita semipalmata* G. Karaman, 1984, lower Oligocene, France]
11. ***Aurobogidiella***, gen. nov., G. Karaman, 1989 [typus generis: *Bogidiella italica* G. Karaman, 1979]
12. ***Aurometopa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Metopoides aurorae* Nicholls, 1938]
13. ***Aurohornellia***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Tulearogammarus sinuatus* Ledoyer, 1967]
14. ***Austrocrangonyx***, gen. nov., J. L. Barnard & G. Karaman, 1983 [typus generis: *Gammarus barringtonensis* Chilton, 1916]
15. ***Austrogammarus***, gen. nov., J. L. Barnard & G. Karaman, 1983 [typus generis: *Gammarus australis* Sayce, 1901]
16. ***Baku***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Pontogammarus paradoxus* Dershavin, 1967]
17. ***Bogidiella*** (***Eobogidiella***), sbg. nov., G. Karaman, 1981 [typus subgeneris: *Bogidiella purmamacensis* Grosso & Ringuelet, 1979]
18. ***Bonassa***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Lysianassa bonairensis* Stephensen, 1933]
19. ***Bruunosa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Tryphosa bruuni* Dahl, 1959]
20. ***Bubocorophium***, gen. nov., G. Karaman, 1981 [typus generis: *Siphonoecetes tanabensis* Harada, 1971]
21. ***Caeconyx***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Haplonyx caeculus* Sars, 1895]

22. ***Caleidoscopsis***, gen. nov., G. Karaman, 1974 [typus generis: *Pardaliscopsis copal* J. L. Barnard, 1967]
23. ***Cedrosella***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Ambasiopsis* (?) *fomes* J. L. Barnard, 1967]
24. ***Cephalogammarus***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Gammarus macrocephalus* Sars, 1896]
25. ***Cephalopisella***, gen. nov., G. Karaman, 1984 [typus generis: *Eriopisella propagatio* Imbach, 1967]
26. ***Chaetocorophium***, gen. nov., G. Karaman, 1979 [typus generis: *Paracorophium lucasi* Hurley, 1954]
27. ***Chaetoniphargus***, gen. nov., G. Karaman & Sket, 2019 [typus generis: *Chaetoniphargus lubuskensis* G. Karaman & Sket, 2019]
28. ***Cicadosa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Anonyx cicadoides* Stebbing, 1888]
29. ***Cocoharpinia***, gen. nov., G. Karaman, 1980 [typus generis: *Cocoharpinia iliffei* G. Karaman, 1980]
30. ***Concarnes***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Socarnes concavus* Shoemaker, 1933]
31. ***Condiciogammarus***, gen. nov., G. Karaman, 1984 [typus generis: *Gammarus retzi* Maikovski, 1941, fossil, lower Oligocene, France]
32. ***Confodiopisa***, gen, nov., G. Karaman, 1984 [typus generis: *Psammogammarus caesicolus* Stock, 1980]
33. ***Cornudilla***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Westwoodilla cornuta* J. L. Barnard, 1969]
34. ***Coximedon***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Normania latimana* Sars, 1883]
35. ***Coxomaerella***, gen. nov., G. Karaman, 1981 [typus generis: *Coxomaerella pirloti* G. Karaman, 1981]
36. ***Dactylocorophium***, gen. nov., G. Karaman, 1981 [typus generis: *Unciola obliquua* Shoemaker, 1949]
37. ***Dactylopleustes***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Parapleustes echinoicus* Tzvetkova, 1975]
38. ***Dartenassa***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Lysianassa dartevillei* Ruffo, 1953]
39. ***Degocheirocratus***, gen. nov., G. Karaman, 1984 [typus generis: *Degocheirocratus spani* G. Karaman, 1984]
40. ***Dissiminassa***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Arugadis similis* Stout, 1913]
41. ***Dodophotis***, gen. nov., G. Karaman, 1985 [typus generis: *Photis distinguenda* Ruffo, 1955]

42. ***Exniphargus***, gen. nov., G. Karaman, 2016 [typus generis: *Exniphargus tzanisi* G. Karaman, 2016]
43. ***Falcanassa***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Lysianassa falcata* Stephensen, 1933]
44. ***Feriharpinia***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Harpinia ferentaria* Gurjanova, 1977]
45. ***Flagitopisa***, gen. nov., G. Karaman, 1984 [typus generis: *Niphargus philippensis* Chilton, 1921]
46. ***Foroniphargus***, gen. nov., G. Karaman, 1985 [typus generis: *Foroniphargus pori* G. Karaman, 1985]
47. ***Galathella***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Schisturella galatheae* Dahl, 1959]
48. ***Gammarus*** (***Fluviogammarus***), sbg. nov., S. Karaman & G. Karaman, 1959 [typus subgeneris: *Carinogammarus triacanthus* Schäferna, 1922]
49. ***Giniphargus***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Niphargus pulchellus* Sayce, 1899]
50. ***Grandidierella*** (***Bigrandidierella***), sbg. nov., G. Karaman, 1985 [typus subgeneris: *Microdeutopus megnae* Giles, 1888]
51. ***Gronella***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Anonyx groenlandicus* Hansen, 1888]
52. ***Hardametopa***, gen nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Metopa nasuta* Boeck, 1871]
53. ***Hebraegidiella***, gen. nov., G. Karaman, 1988 [typus generis: *Hebraegidiella bromleyana* G. Karaman, 1988]
54. ***Holsingerius***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Texiweckelia samacos* Holsinger, 1980]
55. ***Hystriphlias***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Temnophlias hystrix* K. H. Barnard, 1954]
56. ***Impertiopisa***, gen. nov., G. Karaman, 1984 [typus generis: *Eriopisa gracilis* Ruffo & Schiecke, 1976]
57. ***Indocalliope***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Paracalliope indica* K. H. Barnard, 1935]
58. ***Isipingus***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Liljeborgia epistomata* K. H. Barnard, 1932]
59. ***Jubeogammarus***, gen. nov., G. Karaman, 1984 [typus generis: *Gammarus alsaticus* Van Straelen 1924, fossil, lower Oligocene, France]
60. ***Knysmetopa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Parametopa grandimana* Griffiths, 1974]
61. ***Kuzmelina***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Gmelina kusnezowi*, Sowinsky, 1894]

62. ***Lanceogammarus***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Gammarus andrussowi* Sars, 1896]
63. ***Laurogammarus*** gen. nov., G. Karaman, 1984 [typus generis: *Carinogammarus scutarensis* Schäferna, 1922]
64. ***Lepiduristes***, gen nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Uristes* (?) *lepidus* J. L. Barnard, 1964]
65. ***Lupimaera***, gen. nov., J. L. Barnard & G. Karaman 1982 [typus generis: *Maera lupana* J. L. Barnard, 1969]
66. ***Macronassa***, gen. nov., J. L. Barnard & G. Karaman 1991 [typus generis: *Aruga macromerus* Shoemaker, 1916]
67. ***Maleriopa***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Eriopisella dentifera* Ledoyer, 1978]
68. ***Manerogeneia***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Pontogeneiella maneroo* J. L. Barnard, 1972]
69. ***Marinobogidiella***, gen. nov., G. Karaman, 1981 [typus generis: *Bogidiella tyrrhenica* Schiecke, 1979]
70. ***Martensia***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Lysianassa martensi* Goes, 1866]
71. ***Meraldia***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Ochlesis meraldi* J. L. Barnard, 1972]
72. ***Membrilopus***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Metaleptamphopus membrisetata* J. L. Barnard, 1961]
73. ***Nainaloa***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Melita latimerus* Bousfield, 1971]
74. ***Nasageneia***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Pontogeneia nasa* J. L. Barnard, 1969]
75. ***Neogammarus*** (***Longigammarus***), sbg. nov., G. Karaman, 1970 [typus subgeneris: *Neogammarus* (*Longigammarus*) *bruni* G. Karaman, 1970]
76. ***Niphargobatoides***, gen. nov., G. Karaman, 1986 [typus generis: *Niphargobates lefkodemonaki* Sket, 1990]
77. ***Niphargus*** (***Carpathoniphargus***), sbg. nov., S. Karaman & G. Karaman, 1959 [typus subgeneris: *Niphargus carpathicus* Dobreanu & Manolache, 1939]
78. ***Nubigidiella***, gen. nov., G. Karaman, 1988 [typus generis: *Bogidiella nubica* Ruffo, 1984]
79. ***Otagia***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Platyichnopus neozelanicus* Chilton, 1897]
80. ***Pedicorophium***, gen. nov., G. Karaman, 1981 [typus generis: *Unciola laminosa* Pearse, 1912]

81. ***Plumithoe***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Amphithoe plumicornis* Ledoyer, 1979]
82. ***Pygocrangonyx***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Metacrangonyx remyi* Balazuc & Ruffo, 1953]
83. ***Quadrus***, gen. nov., G. Karaman, 1984 [typus generis: *Quadrus vagabundus* G. Karaman, 1984]
84. ***Relictomoera***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Paramoera relicta* Ueno, 1971]
85. ***Relictoseborgia***, gen. nov., G. Karaman, 1982 [typus generis: *Seborgia relicta* Holsinger, 1980]
86. ***Rhynohalicella***, gen. nov., G. Karaman, 1974 [typus generis: *Halicella halona* J. L. Barnard, 1971]
87. ***Rimakoroga***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Pseudokoroga rima* J. L. Barnard, 1964]
88. ***Ringaringa***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Metaphoxus littoralis* Cooper & Fincham, 1974]
89. ***Roropisa***, gen. nov., G. Karaman, 1984 [typus generis: *Victoriopisa atlantica*, Stock 1981]
90. ***Rostrogitanopsis***, gen. nov., G. Karaman, 1980 [typus generis: *Gitanopsis mariae* Griffiths, 1973]
91. ***Sandro***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Austroniphargus starmuhlneri* Ruffo, 1960]
92. ***Septcarnes***, gen. nov., J. L. Barnard & G. Karaman, 1991 [typus generis: *Socarnes septimus* Griffiths, 1975]
93. ***Sinogammarus***, gen. nov., G. Karaman & Ruffo, 1995 [typus generis: *Sinogammarus troglodytes* G. Karaman & Ruffo, 1995]
94. ***Spiniferopisella***, gen. nov., G. Karaman, 1984 [typus generis: *Eriopisella spinosa* Ledoyer, 1979]
95. ***Stegosoladidus***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Audaniotes simplex* K. H. Barnad, 1930]
96. ***Stegopanoploea***, gen. nov., G. Karaman, 1980 [typus generis: *Panoploea joubini* Chevreux, 1912]
97. ***Stenocorophium***, gen. nov., G. Karaman, 1979 [typus generis: *Stenocorophium bowmani* G. Karaman, 1979]
98. ***Sternomoera***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Paramoera yezoensis* Ueno, 1933]
99. ***Synopia*** (***Telsosynopia***), sbg. nov., G. Karaman, 1986 [typus subgeneris: *Synopia variabilis* Spandl, 1923]
100. ***Tadzocrangonyx***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Crangonyx schizurus* Birstein, 1948]

101. ***Tegano***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Melita seticornis* Bousfield, 1970]
102. ***Tepidopleustes***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Parapleustes barnardi* Ledoyer, 1972]
103. ***Texiweckeliopsis***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Texiweckelia insolita* Holsinger, 1980]
104. ***Torometopa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Metopa crenatipalmata* Stebbing, 1888]
105. ***Torridoharpinia***, gen. nov., J. L. Barnard & G. Karaman, 1982 [typus generis: *Proharpinia hurleyi* J. L. Barnard, 1958]
106. ***Turcogammarus***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Obesogammarus turcarum* Stock, 1974]
107. ***Tyrrhenogammarus***, gen. nov., G. Karaman & Ruffo, 1989 [typus generis: *Tyrrhenogammarus sardous* G. Karaman & Ruffo, 1989]
108. ***Vicitopisa***, gen. nov., G. Karaman, 1984 [typus generis: *Eriopisa inaequicaudata* Ledoyer, 1982]
109. ***Victoriopisa***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Niphargus chilkensis* Chilton, 1921]
110. ***Vonimetopa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Metopella dubia* Shoemaker, 1964]
111. ***Whangarusa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Panoploea translucens* Chilton, 1884]
112. ***Yogmelina***, gen. nov., G. Karaman & J. L. Barnard, 1979 [typus generis: *Gmelina pusilla* Sars, 1896]
113. ***Zaikometopa***, gen. nov., J. L. Barnard & G. Karaman, 1987 [typus generis: *Metopelloides erythrophthalmus* Coyle & Mueller, 1981]

VRSTE I PODVRSTE
SPECIES AND SUBSPECIES

1. ***Accubogammarus algor jalzici***, ssp. n., G. Karaman, 1988 [loc. typ.: Cave in Gromača, Dubrovnik reg, Croatia]
2. ***Alsacomelita semipalmata***, sp. n., G. Karaman, 1984 [loc. typ.: fossil, Schoenensteinbach, Alsace, France, lower Oligocene]
3. ***Ampelisca dalmatina***, sp. n., G. Karaman, 1975 [loc. typ.: Boka Kotorska, Adriatic Sea, Montenegro]
4. ***Ampelisca anversensis***, sp. n., G. Karaman, 1975 [loc. typ.: Arthur Harbour, Anvers Island, Antarctic]
5. ***Ampelisca richardsoni***, sp. n., G. Karaman, 1975 [loc. typ.: Arthur Harbour, Anvers Island, Antarctic]

6. ***Ampithoe helleri***, sp. n., G. Karaman, 1975 [loc. typ.: Hvar Island, Adriatic Sea, Croatia]
7. ***Arculfia trago mediterranea***, ssp. n., G. Karaman, 1986 [loc. typ.: Mediterranean Sea, off France]
8. ***Bogidiella chappuisi pescei***, ssp. n., G. Karaman, 1989 [loc. typ.: Nuoro near Orune, Sardinia, Italy]
9. ***Bogidiella cypria***, sp. n., G. Karaman, 1989 [loc. typ.: Amathus, Limassol, Cyprus Island]
10. ***Bogidiella glacialis cataracta***, ssp. n., G. Karaman, 2002 [loc. typ.: Skavkač River, Grlje waterfall near Gusinje, Montenegro]
11. ***Bogidiella ichnusae africana***, ssp. n., G. Karaman & Pesce, 1986 [loc. typ.: Bouchagroun. Biskra, Algeria]
12. ***Bogidiella montenigrina***, sp. n., G. Karaman, 1997 [loc. typ.: Lipska pećina Cave near Cetinje, Montenegro].
13. ***Bogidiella paraichnusae***, sp. n., G. Karaman, 1979 [loc. typ.: Golfo di Napoli, interstitial, Tyrrhenian Sea, Italy]
14. ***Bogidiella*** (***Guagidiella***) ***arganoides***, sp. n., G. Karaman, 1982 [loc. typ.: Etla, Oaxaca, Mexico]
15. ***Bogidiella chitalensis***, sp. n., G. Karaman, 1981 [loc. typ.: Chiapas, Chital, Mexico]
16. ***Bogidiella*** (?***Bogidiella***) ***barbaria***, sp. n., G. Karaman, 1990 [loc. typ.: Rio Fardes, Granada, Spain]
17. ***Bogidiella*** (***Bogidiella***) ***calicali***, sp. n., G. Karaman, 1988 [loc. typ.: Castelsardo, Sassari, Sardinia, Italy]
18. ***Bogidiella*** (***Bogidiella***) ***nicolae***, sp. n., G. Karaman, 1988 [loc. typ.: phreatic waters of Tech River, France]
19. ***Bogidiella*** (? ***Bogidiella***) ***copia***, sp. n., G. Karaman, 1988 [loc. typ.: Enot Qane, En Gedi, western coast of Dead Sea]
20. ***Bogidiella*** (***Bogidiella***) ***mexicana***, sp. n., G. Karaman, 1981 [loc. typ.: Planta, Chiapas, Mexico]
21. ***Bogidiella*** (***Medigidiella***) ***aquatica***, sp. n., G. Karaman, 1990 [loc. typ.: Preveli, Creta Island, Greece]
22. ***Bogidiella serbica***, sp. n., G. Karaman, 1987) [loc. typ.: spring of Bijeli Drim, Radavac]
23. ***Bogidiella sinica***, sp. n., G. Karaman & Sket, 1990 [loc. typ.: Lower cave of Qixinyen, Guilin, China].
24. ***Bogidiella sketi***, sp. n., G. Karaman, 1989 [loc. typ.: Manita Cave near Paklenica, Velebit Mt., Croatia]
25. ***Bogidiella stocki***, sp. n., G. Karaman, 1990 [loc. typ.: Beer Gideih, Sinai Peninsula]

26. ***Carinurus amentatus***, sp. n., G. Karaman, 1977 [loc. typ.: Bajkal Lake, Russia]
27. ***Carinurus bazikalovae***, sp. n., G. Karaman, 1977 [loc. typ.: Bajkal Lake, Russia]
28. ***Carinurus bifrons***, sp. n., G. Karaman, 1977 [loc. typ.: Kljuevka, Bajkal Lake, Russia]
29. ***Chaetoniphargus lubuskensis***, sp. n., G. Karaman & Sket, 2019 [loc. typ.: Lubuška Jama Cave, Velebit Mt., Crotia]
30. ***Cheirocratus monodontus***, sp. n., G. Karaman, 1977 [loc. typ.: Vervece, Napoli Bay, Tyrrhenian Sea, Italy]
31. ***Cheirocratus armatus***, sp. n., G. Karaman, 1977 [loc. typ.: Buheiret, Great Bitter Lake, Suez Canal]
32. ***Cocoharpinia iliffei***, sp. n., G. Karaman, 1980 [loc. typ.: Cave in Walsingham, Bermuda Island]
33. ***Coxomaerella pirloti***, sp. n., G. Karaman, 1981 [loc. typ.: Pulu Jedan, Aru Island, Indonesia]
34. ***Degocheirocratus spani***, sp. n., G. Karaman, 1984 [loc. typ.: Adriatic Sea off Konavoske Stijene, S. Croatia]
35. ***Echinogammarus adipatus***, sp. n., G. Karaman & Tibaldi, 1973 [loc. typ.: Catania, Sicilia, Italy]
36. ***Echinogammarus bolo***, sp. n., G. Karaman & Tibaldi, 1973 [loc. typ.: Palai, Sardinia, Italy]
37. ***Echinogammarus catacumbae***, sp. n., G. Karaman & Ruffo, 1977 [loc. typ.: Catacombs of S. Lucia, Sicily, Italy]
38. ***Echinogammarus dactylus***, sp. n., G. Karaman, 1987 [loc. typ.: Djebel Gorra, springs, Tunis]
39. ***Echinogammarus roco***, sp. n., G. Karaman, 1973 [loc. typ.: Tirino, Abruzzo, Italy]
40. ***Echinogammarus sicilianus***, sp. n., G. Karaman & Tibaldi, 1973 [loc. typ.: Pantalica, Sicilia, Italy]
41. ***Echinogammarus stammeri visualis***, ssp. n., G. Karaman, 1974 [loc. typ.: Grotta del Tasso, Gargano, Italy]
42. ***Echinogammarus stocki***, sp. n., G. Karaman, 1970 [loc. typ.: Cres Island, Adriatic Sea, Croatia]
43. ***Echinogammarus tabu mutus***, ssp. n., G. Karaman & Tibaldi, 1973 [loc. typ.: Biferno, Matese, Italy]
44. ***Echinogammarus thoni antalyae***, ssp. n., G. Karaman, 1971 [loc. typ.: Kirgoz near Antalya, Turkey]
45. ***Exniphargus tzanisi***, sp. n., G. Karaman, 2016 [loc. typ.: Tzanis spilios Cave, Lefka Ori Massif, Creta Island, Greece].

46. ***Foroniphargus pori***, sp. n., G. Karaman, 1985 [loc. typ.: N. Dan, Israel]
47. ***Gammarus*** (***Fluviogammarus***) ***argaeus burduri***, ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: on road towards Burdur Lake, Turkey)
48. ***Gammarus*** (***Fluviogammarus***) ***triacanthus graecus***, ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: Etang de sources a Vrisis, Greece]
49. ***Gammarus*** (***Fluviogammarus***) ***triacanthus*** f. ***montenigrina***, n. f, S. Karaman & G. Karaman, 1959 [loc. typ.: Plavsko jezero Lake, Montenegro]
50. ***Gammarus*** (***Fluviogammarus***) ***triacanthus nisiae***, ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: Nisia Lake near Vryte, Greece]
51. ***Gammarus*** (***Fluviogammarus***) ***triacanthus prespensis***, ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: Prespa Lake, Northern Macedonia]
52. ***Gammarus*** (***Fluviogammarus***) ***triacanthus strumicae*** ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: Strumica, Northern Macedonia]
53. ***Gammarus*** (***Rivulogammarus***) ***balcanicus albimanus***, ssp. n., G. Karaman, 1968 [loc. typ.: Golema peštera Cave near Gostivar, Northern Macedonia]
54. ***Gammarus*** (***Rivulogammarus***) ***balcanicus bilecanus***, ssp. n., G. Karaman, 1964 [loc. typ.: springs near Bileća, Bosnia & Herzegovina]
55. ***Gammarus*** (***Rivulogammarus***) ***pljakici***, sp. n., G. Karaman, 1964 [loc. typ.: springs near Andrijevica, Montenegro]
56. ***Gammarus abscisus***, sp. n., G. Karaman, 1973 [loc. typ.: Kirseljir, Turkey, Asia Minor]
57. ***Gammarus accolae***, sp. n., G. Karaman, 1973 [loc. typ.: Kirgos near Antalya, Turkey, Asia Minor]
58. ***Gammarus arduus***, sp. n., G. Karaman, 1974 [loc. typ.: Malkara, Tekirdag, Turkey]
59. ***Gammarus balcanicus halilicae***, ssp. n., G. Karaman, 1969 [loc. typ.: Halilica Cave, Northern Macedonia]
60. ***Gammarus belli***, sp. n., G. Karaman, 1984 [loc. typ.: fossil, Pleistocene of Kirkland (Fife), Scotland]
61. ***Gammarus birsteini***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Talasskiy Alatau Mts, Kazakhstan]
62. ***Gammarus cantor***, sp. n., G. Karaman, 1973 [loc. typ.: Patomja spring, Tasos island, Greece]
63. ***Gammarus chimkenti***, sp. n., G. Karaman, 1984 [loc. typ.: Chimkent, torrent, Kazakhstan]
64. ***Gammarus crenulatus***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Scaditikos river, Thessalia, Greece]
65. ***Gammarus effultus***, sp. n., G. Karaman, 1974 [loc. typ.: Kalecik, Ankara, Turkey]

66. ***Gammarus frater***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Asenovgrad, Bulgaria]
67. ***Gammarus goedmakersae***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Karpuzatan, Kayseri, Turkey]
68. ***Gammarus imberbus***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Lake Issyk-Kul, Kazakhstan]
69. ***Gammarus laborifer***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: torrent near Lake Yamoune, Syria]
70. ***Gammarus laticoxalis***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: well in Ain Fidje, Syria]
71. ***Gammarus ledoyeri***, sp. n., G. Karaman, 1987 [loc. typ. Madagascar]
72. ***Gammarus longipedis***, sp. n., G. Karaman & Pinkster, 1987 [loc. typ.: Su Ciktigi Cave, Hadim, Turkey]
73. ***Gammarus macedonicus***, sp. n., G. Karaman, 1976 [loc. typ.: Ohrid Lake, Northern Macedonia]
74. ***Gammarus mladeni***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Obruk, Konya, Turkey]
75. ***Gammarus monspeliensis agrarius***, ssp. n., G. Karaman, 1973 [loc. typ.: Dinar Karakugu, Turkey, Asia Minor]
76. ***Gammarus obnixus***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Acigol Lake, Afyon, Turkey]
77. ***Gammarus osellai***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Pinerbasi, Kaiseri, Turkey]
78. ***Gammarus paraorientalis***, n. sp. G. Karaman, 2018 [loc. typ.: Derbend, eastern side of Erdschias-dag, Asia Minor, Turkey]
79. ***Gammarus parechiniformis***, sp. n., G. Karaman, 1977 [loc. typ.: Ohrid Lake, Northern Macedonia]
80. ***Gammarus pavlovici stankoi***, ssp. n. [nom. nov.], G. Karaman, 1974 [loc. typ.: Bele Vode, Skopska Crna Gora, Northern Macedonia]
81. ***Gammarus pavo***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: stream between Lake Acigol and Lake Burdur, Turkey]
82. ***Gammarus pseudanatoliensis***, sp. n., G. Karaman & Pinkster, 1987 [loc. typ.: Malatya, Gürun, Turkey]
83. ***Gammarus pseudosyriacus***, sp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Damascus, Syria]
84. ***Gammarus pulex cognominis***, ssp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Devetaška peštera Cave, Loveč, Bulgaria]
85. ***Gammarus pulex polonensis***, ssp. n., G. Karaman & Pinkster, 1977 [loc. typ.: Warta, Poznan, Poland]

86. ***Gammarus salemaai***, sp. n., G. Karaman, 1985 [loc. typ.: Ohrid Lake, Northern Macedonia]
87. ***Gammarus sangirdaki***, sp. n., G. Karaman, 1984 [loc. typ.: vill. San-Girdak, E. Bukhara, Uzbekistan].
88. ***Gammarus sangirdaki hissari***, ssp. n. G. Karaman, 1984 [loc. typ.: torrent in Khan-Takhta, 2650 m asl, Tadzikistan]
89. ***Gammarus sketi***, sp. n., G. Karaman, 1989 [loc. typ.: Biljanini Izvori springs, Ohrid Lake, Northern Macedonia]
90. ***Gammarus sobaegensis kimi***, ssp. n., G. Karaman, 1984 [loc. typ.: Cheongsong, Korea]
91. ***Gammarus sobaegensis leei***, ssp. n., G. Karaman, 1984 [loc. typ.: Uidong, Korea]
92. ***Gammarus sobaegensis marginalis***, ssp. n., G. Karaman, 1984 [loc. typ.: Bongwha, Korea]
93. ***Gammarus solidus***, sp. n., G. Karaman, 1977 [loc. typ.: Ohrid Lake, Northern Macedonia]
94. ***Gammarus spooneri***, sp. n., G. Karaman, 1991 [loc. typ.: estuary of Weser River, Germany]
95. ***Gammarus stankokaramani***, sp. n., G. Karaman, 1976 [loc. typ.: Ohrid Lake, Northern Macedonia]
96. ***Gammarus uludagi***, sp. n., G. Karaman, 1974 [loc. typ.: Uludag, Bursa, Turkey]
97. ***Gammarus vignai***, sp. n., Pinkster & G. Karaman, 1977 [loc. typ.: Cave Dalayman Cocuk Cave, Konya, Turkey]
98. ***Gitanopsis petulans***, sp. n., G. Karaman, 1980 [loc. typ.: Cave in Walsingham, Bermuda Island]
99. ***Hadzia gjorgjevici gjorgjevici*** n. ***crispata***, n. n., G. Karaman, 1969 [loc. typ.: Podgorica (=Titograd), Montenegro]
100. ***Hadzia fragilis drinensis***, ssp. n., G. Karaman, 1984 [loc. typ.: Drina River, Brod na Drini, Bosnia & Herzegovina]
101. ***Hadzia fragilis stochi***, ssp. n., G. Karaman, 1989 [loc. typ.: cave near La Peschiera del Timavo, Italy]
102. ***Haploginglymus mateusi***, sp. n., G. Karaman, 1986 [loc. typ.: Tornero Cave, Guadalajara prov, Spain]
103. ***Harpinia ala***, sp. n., G. Karaman, 1987 [loc. typ.: Golfo di Napoli, Tyrrhenian Sea, Italy]
104. ***Harpinia pectinata*** f. ***mediterranea***, n. f, G. Karaman, 1973 [loc. typ.: Boka Kotorska, Adriatic Sea, Montenegro]
105. ***Hebraegidiella bromleyana***, sp. n., G. Karaman, 1988 [loc. typ.: Enot Cane, western coast of Dead Sea]

106. ***Idunella bowenae***, sp. n., G. Karaman, 1979 [loc. typ.: off Northern Meryland, Atlantic Ocean, USA]
107. ***Idunella nagatai***, sp. n., G. Karaman, 1979 [loc. typ.: off Suo Nada, Seto Inland Sea, Japan]
108. ***Idunella sketi***, sp. n., G. Karaman, 1980 [loc. typ.: Walsingham, Atlantic Ocean, Bermuda Island,]
109. ***Iphimedia jugoslavica***, sp. n., G. Karaman, 1975 [loc. typ.: Adriatic Sea off Budva, Montenegro]
110. ***Leptocheirus mariae***, sp. n., G. Karaman, 1973 [loc. typ.: Boka Kotorska, Adriatic Sea, Montenegro]
111. ***Leucothoe oboa*** sp. n., G. Karaman, 1971 [loc. typ.: Boka Kotorska, Adriatic Sea, Montenegro]
112. ***Maera sodalis***, sp. n., G. Karaman & Ruffo, 1971 [loc. typ.: Boka Kotorska, Adriatic Sea, Montenegro]
113. ***Maera schieckei***, sp. n., G. Karaman & Ruffo, 1971 [loc. typ.: Secca di Forio, Ischia island, Tyrrhenian Sea, Italy]
114. ***Maera pachytelson***, sp. n., G. Karaman & Ruffo, 1971 [loc. typ.: Cesarea, Israel]
115. ***Maerella ledoyeri*** sp. n., G. Karaman, 1981 [loc. typ.: Grand Relief, Indian Ocean, Madagascar]
116. ***Melita bulla***, sp. n., G. Karaman, 1978 [loc. typ.: Kamenovo near Budva, Adriatic Sea, Montenegro]
117. ***Melita myersi***, sp. n., G. Karaman, 1987 [loc. typ.: Laucala Island, Pacific Ocean, Fiji Islands]
118. ***Melita stocki***, sp. n., G. Karaman, 1987 [loc. typ.: well in Bermuda, Bermuda Islands]
119. ***Melita persona***, sp. n., G. Karaman, 1987 [loc. typ.: Castle Harbour, Walsingham, Bermuda islands]
120. ***Metacrangonyx ortali***, sp. n., G. Karaman, 1989 [loc. typ.: Enot Qane, western coast of Dead Sea]
121. ***Metacrangonyx spinicaudatus***, sp, n. [loc. typ.: Sidi El Aidi, Casablanca, Morocco]
122. ***Metaphoxus gruneri***, sp. n., G. Karaman, 1986 [loc. typ.: Mediterranean Sea off Malta Island]
123. ***Neogammarus adriaticus***, sp. n., G. Karaman, 1973 [loc. typ.: Bečići near Budva, Adriatic Sea, Montenegro]
124. ***Neogammarus*** (***Longigammarus***) ***bruni***, sp. n., G. Karaman, 1970 [loc. typ.: Loup river near Nizza, France]
125. ***Niphargus abavus***, sp. n., G. Karaman, 2011 [loc. typ.: spring on Markov Rt, Prčanj, Boka Kotorska, Adriatic Sea, Montenegro]

126. ***Niphargus ablaskiri georgievi*** ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: Ourouchka peštera Cave near Krochouna vill, Lovetch, Bulgaria]
127. ***Niphargus adbiptus*** sp. n., G. Karaman, 1973 [loc. typ.: Ravanica Cave, Serbia]
128. ***Niphargus ambulator***, sp. n., G. Karaman, 1975 [loc. typ.: Rana del Falco Cave, Erba, Como, Italy]
129. ***Niphargus arbiter***, sp. n., G. Karaman, 1984 [loc. typ.: Pećina Selo, Lika, Croatia]
130. ***Niphargus arcanus***, sp. n., G. Karaman, 1988 [loc. typ.: Malinište springs near Ličko Lešče, Croatia]
131. ***Niphargus armatus***, sp. n., G. Karaman, 1985 [loc. typ.: Grotta Nuova di Villanova, Italy]
132. ***Niphargus asper***, sp. n., G. Karaman, 1972 [loc. typ.: Podgorica (=Titograd), Montenegro]
133. ***Niphargus aulicus***, sp. n., G. Karaman, 1991 [loc. typ.: Drinovčuša Cave, Bradarica Staje, Mosor Mt., Croatia]
134. ***Niphargus biljanae***, sp. n., G. Karaman, 1998 [loc. typ.: well in Zelenikovo S. of Skoplje, Northern Macedonia]
135. ***Niphargus bodoni***, sp. n., G. Karaman, 1985 [loc. typ.: springs of Cassana River near Borghetto di Vara, Italy]
136. ***Niphargus bogdani***, sp. n., G. Karaman, 2009 [loc. typ.: Grlić Cave, Zlatibor Mt., Serbia]
137. ***Niphargus boskovici alatus***, ssp. n., G. Karaman, 1973 [loc. typ.: Veruša Mt., Montenegro]
138. ***Niphargus bozanae***, sp. n., G. Karaman, 2009 [loc. typ.: Jama Jamina Cave, Zlatibor Mt., Serbia]
139. ***Niphargus bozanae omnivagus***, ssp. n., G. Karaman, 2012 [loc. typ.: springs of Pusta Reka River, Radan Mt., Serbia]
140. ***Niphargus brevicuspis sketi***, ssp. n., G. Karaman, 1965 [loc. typ.: Grbočica Cave near Virpazar, Montenegro]
141. ***Niphargus bukovicensis***, sp. n., G. Karaman, 2016 [loc. typ.: Velika Bukovička spilja Cave, Velika Bukovica, Bosnia & Herzegovina]
142. ***Niphargus caelestis***, sp. n. G. Karaman, 1982 [loc. typ.: Ushchelnaia Cave near Vorontsovki, Khosty reg, Transcaucasus]
143. ***Niphargus canui***, sp. n., G. Karaman, 1976 [loc. typ.: il Buseto Cave, Verona, Italy]
144. ***Niphargus carcerarius***, sp. n., G. Karaman, 1986 [loc. typ.: Cave of Šljivanski potok, Tara River, Montenegro]
145. ***Niphargus catalogus***, sp. n., G. Karaman, 1995 [loc. typ.: torrent Merula, Andora, Savona, Italy]

146. ***Niphargus cepelarensis*** sp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: Cave Peštera near vill. Progled-Čepelare, Bulgaria]
147. ***Niphargus cerjanensis***, sp. n., G. Karaman, 2014 [loc. typ.: Cerjanska Jama Cave, Klenovnik, Varaždin, Croatia]
148. ***Niphargus cymbalus***, sp. n., G. Karaman, 2017 [loc. typ.: Glikorizo, Arta, Epirus, Greece]
149. ***Niphargus danielopoli***, sp. n., G. Karaman, 1994 [loc. typ.: Paxerlueg, Austria]
150. ***Niphargus decui***, sp. n., G. Karaman & Sket, 1995 [loc. typ.: Vama Veche near Mangalia cave, Romania].
151. ***Niphargus deelemanae***, sp. n., G. Karaman, 1973 [loc. typ.: Držina pećina Cave, Serbia]
152. ***Niphargus deelemanae grex***, ssp. n., G. Karaman, 2013 [loc. typ.: Šarbanovac, Gornjakovići, Timok River, Serbia]
153. ***Niphargus denarius***, sp. n., G. Karaman, 2017 [loc. typ.: Efimia, Cephalonia Island, Greece].
154. ***Niphargus duplus***, sp. n., G. Karaman, 1976 [loc. typ.: Pozzo Gabbianelle, Bergamo, Italy]
155. ***Niphargus echion***, sp. n., G. Karaman & S. Gottstein-Matočec, 2006 [loc. typ.: Pliškovićeva Jama Cave, Šikuti, Istra, Croatia]
156. ***Niphargus euserbicus***, sp. n., G. Karaman, 2012 [loc. typ.: Jovanjska pećina Cave, Valjevo, Serbia]
157. ***Niphargus factor***, sp. n., G. Karaman & Sket, 1990 [loc. typ.: Vjetrenica Cave, Popovo Polje, Bosna & Herzegovina]
158. ***Niphargus fautor***, sp. n., G. Karaman, 2017 [loc. typ.: Glikorizo, Arta, Epirus, Greece]
159. ***Niphargus forroi***, sp. n., G. Karaman, 1986 [Diabaz Cave in the Bükk National Park, Hungary]
160. ***Niphargus frasassianus***, sp. n., G. Karaman, Borowsky, B. & Dattagupta, S, 2010 [loc. typ.: Pozzo dei Cristali in Frasassi Cave system, Genga, Italy]
161. ***Niphargus frontalis***, sp. n., G. Karaman, 2016 [loc. typ.: Frontale, Coldigioco, Apiro, Marche, Italy]
162. ***Niphargus galvagnii similis***, ssp. n., G. Karaman & Ruffo, 1989 [loc. typ.: Buso del Sasso Cave, Arsiero Vicenza, Italy]
163. ***Niphargus ictus***, sp. n., G. Karaman, 1985 [loc. typ.: Grotta del Fiume, Ancona, Italy]
164. ***Niphargus inclinatus***, sp. n., G. Karaman, 1973 [loc. typ.: Golubovci near Podgorica (=Titograd), Montenegro]
165. ***Niphargus*** (***Supraniphargus***) ***illidzensis montenigrinus*** ssp. n., G. Karaman, 1962 [loc. typ.: Źabljak, Durmitor Mt., Montenegro]

166. ***Niphargus imitator***, sp. n., G. Karaman, 2012 [loc. typ.: Mustanini Cave, Antalya village, Turkey]
167. ***Niphargus impexus***, sp. n., G. Karaman, 2016 [loc. typ.: Iraklion, Panagio-Nigaditos, Creta Island, Greece]
168. ***Niphargus incus***, sp. n., G. Karaman, 2012 [loc. typ.: Zonguldak, Egerli Oglan, Turkey]
169. ***Niphargus itus***, sp. n., G. Karaman, 1986 [loc. typ.: En Awazin, Israel]
170. ***Niphargus ivokaramani***, sp. n., G. Karaman, 1994 [loc. typ.: well, Prekonoga near Svrljig, Serbia]
171. ***Niphargus jalzici***, sp. n., G. Karaman 1989 [loc. typ.: Jazbina, Katići, Generalski Stol, Croatia]
172. ***Niphargus jugoslavicus***, sp. n., G. Karaman, 1982 [loc. typ.: Trgoviški Timok, Trgovište, Serbia]
173. ***Niphargus krasnodarus***, sp. n., G. Karaman, 2012 [loc. typ.: Fanagoriyskaya Cave, Krasnodar, Russia]
174. ***Niphargus kragujevensis remus***, ssp. n., G. Karaman, 1992 [loc. typ.: fountain above Prekonoga, Svrljig, Serbia]
175. ***Niphargus laisi geronensis***, ssp. n., G. Karaman, 2015 [loc. typ.: Peralada, Garriguella, Figueras, Spain]
176. ***Niphargus lakusici***, sp. n., G. Karaman, 2017 [loc. typ.: Pyrgos, Crete Island, Greece]
177. ***Niphargus lattingerae***, sp. n., G. Karaman, 1983 [loc. typ.: Dolje near Zagreb, Croatia]
178. ***Niphargus*** (***Orniphargus***) ***lourensis skirosi***, ssp. n., G. Karaman, 2018 [loc. typ.: Molos, Skiros Island, Aegean Sea, Greece]
179. ***Niphargus luka***, sp. n., G. Karaman, 2013 [loc. typ.: Ranney, Prijevor near Čačak, Serbia]
180. ***Niphargus lunaris*** sp. n., G. Karaman, 1984 [loc. typ.: Mokra pećina Cave near Resanovci, Bosnia & Herzegovina]
181. ***Niphargus maximus petkovskii***, ssp. n., G. Karaman, 1963 [loc. typ.: springs Studenčišće in Ohrid, Ohrid Lake, Northern Macedonia]
182. ***Nipharus maximus vulgaris***, ssp. n., G. Karaman, 1968 [loc. typ.: Spring in Sotonići, Skadar Lake reg, Montenegro]
183. ***Niphargus messanai***, sp. n., G. Karaman, 1989 [loc. typ.: Mugnone torrent, Firenze, Italy]
184. ***Niphargus montanarius***, sp. n., G. Karaman, Borowsky, B. & Dattagupta, S, 2010 [loc. typ.: Lago Bugianardo Cave, Frasassi Gorge, Italy]
185. ***Niphargus nadarini favitor***, ssp. n., G. Karaman, 2012 [loc. typ.: Al Nabk, Syria]

186. ***Niphargus nadarini iraquensis***, ssp. n., G. Karaman, 2012 [loc. typ.: Haditha, Euphrates drainage system, Iraq]
187. ***Niphargus navotinus***, sp. n., G. Karaman, 2014 [loc. typ.: Navotinska pećina Cave, Navotino near Berane, Montenegro]
188. ***Niphargus notenboomius***, sp. n., G. Karaman, 2015 [well near Angles, Gerona, Spain]
189. ***Niphargus numerus***, sp. n., G. Karaman & Sket, 1990 [loc. typ.: Čavlinska pećina Cave, Obrovac, Croatia]
190. ***Niphargus orbis***, sp. n., G. Karaman, 2013 [loc. typ.: Calizzano, Rio di Valle, Liguria, Italy]
191. ***Niphargus ozimeci***, sp. n., G. Karaman, 2011 [loc. typ.: Cave spring of Miljacka Mokrinjska river, Romania Mt., Bosnia & Herzegovina]
192. ***Niphargus pancici dojranensis***, ssp. n., G. Karaman, 1960 [loc. typ.: spring Deribaš, Dojran Lake, Northern Macedonia]
193. ***Niphargus pancici vlkanovi*** ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: cave near Źivata Voda near Sofia, Bulgaria]
194. ***Niphargus parapupetta***, sp. n., G. Karaman, 1984 [loc. typ.: Podsused near Zagreb, Croatia]
195. ***Niphargus pararhodi***, sp. n., G. Karaman, 2018 [loc. typ.: spring brook, Goudouras River, Rhodos Island, Greece]
196. ***Niphargus pasquinii sodalis***, ssp. n., G. Karaman, 1984 [loc. typ.: Teramo, Abruzzo, Italy]
197. ***Niphargus pavicevici***, sp. n., G. Karaman, 1976 [loc. typ.: Piva River, Montenegro]
198. ***Niphargus pecarensis occultus***, ssp. n., G. Karaman, 1998 [loc. typ.: spring above Mratinje, Montenegro]
199. ***Niphargus pectencoronate***, sp. n., Sket & G. Karaman, 1990 [loc. typ.: cave near Vrulje, Kornat Island, Adriatic Sea, Croatia]
200. ***Niphargus pescei***, sp. n., G. Karaman, 1984 [loc. typ.: Nure brook, Piacenza, Italy]
201. ***Niphargus poianoi***, sp. n., G. Karaman, 1988 [loc. typ.: Poiano spring, Reggio Emilia, Italy]
202. ***Niphargus poianoi salernianus***, ssp. n., G. Karaman, 2015 [loc. typ.: S. Angelo a Fasanella, Salerno, Monti Alburni, Italy]
203. ***Niphargus radzai***, sp. n., G. Karaman, 2014 [loc. typ.: spring, Ravno Vrdovo, Dinara Mt., Croatia]
204. ***Niphargus pseudocaspius*** sp. n. G. Karaman, 1982 [loc. typ.: Kendyrli Bay, Caspian Sea, Kazakhstan]
205. ***Niphargus pulevici***, sp. n., G. Karaman, 1967 [loc. typ.: spring in Bar, Montenegro]

206. ***Niphargus rejici jadranko***, ssp. n., Sket & G. Karaman, 1990 [loc. typ.: Ponikve, Krk Island, Adriaatic Sea, Croatia]
207. ***Niphargus religiosus***, sp. n., G. Karaman, 2012 [loc. typ.: Uragavaz-Gecidi, Ballidag, Turkey]
208. ***Niphargus renei***, sp. n., G. Karaman, 1986 [loc. typ.: Balan, Rhone river, France]
209. ***Niphargus rotundus***, sp. n., G. Karaman, 2016 [loc. typ.: well in Montelupo Albeze, Piemonte, Italy]
210. ***Niphargus rucneri*** sp. n., G. Karaman, 1962 [loc. typ.: Glibovita Draga spring, Plitvice Lakes, Croatia]
211. ***Niphargus ruffoi***, sp. n., G. Karaman, 1976 [loc. typ.: Gortany Abyss, Friuli, Italy]
212. ***Niphargus sestaputeanus***, sp. n., G. Karaman, 2016 [loc. typ.: Sesta Godano, Passo del Rastrello, La Spezia, Italy]
213. ***Niphargus schusteri***, sp. n., G. Karaman, 1991 [loc. typ.: well in Kasten Gradenfeld, Austria]
214. ***Niphargus spasenijae***, sp. n., G. Karaman, 2015 [loc. typ.: cave in Atspas, Skala Marion Island, Tasos Island, Greece]
215. ***Niphargus spiritus***, sp. n., G. Karaman, 2016 [loc. typ.: Fuente Aizpara, Aizpara Mt., Navarra, Spain]
216. ***Niphargus spoeckeri sibbilinianus***, ssp. n., G. Karaman, 1984 [loc. typ.: Valle del Lago Pilato, Monti Sibillini, Italy]
217. ***Niphargus stankoi***, sp. n., G. Karaman, 1974 [loc. typ.: Bukovo near Resen, Northern Macedonia]
218. ***Niphargus steueri liburnicus***, ssp. n., G. Karaman & Sket, 1989 [loc. typ.: Ponikve, Krk Island, Adriatic Sea, Croatia]
219. ***Niphagus stochi***, sp. n., G. Karaman, 1994 [loc. typ.: Aurisina springs, Duino, Trieste, Italy]
220. ***Niphargus strouhali alpinus***, ssp. n., G. Karaman & Ruffo, 1989 [loc. typ.: Grotta del Torrione di Vallesinella, Dolomites, Italy]
221. ***Niphargus stygocharis italicus***, ssp. n., G. Karaman, 1976 [loc. typ.: Fontanile Brancaleone, Bergamo, Italy]
222. ***Niphargus tamaninii barbatus***, ssp. n., G. Karaman, 1985 [loc. typ.: Grotta della Genziana, Treviso, Italy]
223. ***Nihargus tauri afioni***, ssp. n., G. Karaman, 2012 [loc. typ.: Afion, Turkey]
224. ***Niphargus tauri pecarensis*** ssp. n., S. Karaman & G. Karaman, 1959 [loc. typ.: Pečara Dupka Cave near Belogradčik, Bulgaria]
225. ***Niphargus tomori***, sp. n., G. Karaman, 2011 [loc. typ.: cave on Tomor Mts, Albania]

226. ***Niphargus transitivus dissonus***, ssp. n., G. Karaman, 1984 [loc. typ.: Pagarzana, Bergamo, Italy]
227. ***Niphargus vranjinae***, sp. n., G. Karaman, 1967 [loc. typ.: spring in Vanjina Island, Skadar Lake, Montenegro]
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SPISAK NAUČNIH RADOVA GORDANA S. KARAMANA

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