



HOON SOO KIM (17 APRIL 1923–22 APRIL 2015)

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Prof. Hoon Soo Kim, who died on 22 April 2015, was a pioneer in marine invertebrate taxonomy in Korea and was renowned as the “father of carcinology” in the country. In a very successful career spanning four decades, Prof. Kim’s

influence and impact on Korean biodiversity research was immense.

Prof. Kim was born on 17 April 1923 at Gapsan-gun, Hamgyeongnam-do, which is the most mountainous region

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in Korea. He grew up influenced greatly by his grandfather, a doctor of Oriental medicine; and his father, a medical doctor; and became very interested in animals. He entered Kyunggi Middle School in 1937 and graduated in 1942. During summer vacations at that time, he often walked along the coast near a lighthouse in Chongjin, Hamgyeongbuk-do, where his father practiced medicine. He took pleasure in observing crabs, shells, sea urchins, and other invertebrates. This exposure gave him the motivation to begin his life-long study of marine invertebrates, and it was the main reason for his entering the Department of Biology, College of Liberal Arts and Sciences, Seoul National University. He was originally supposed to enter medical school because he had completed a premedical course, but he changed his mind.

Upon graduation in 1949, Prof. Kim became a full-time lecturer at the Department of Biology, Kyungpook National University, from September 1949 to September 1953. He first supervised a student named Chang Eon Lee, who was majoring in insect taxonomy. In the subsequent years, Prof. Lee supervised many other doctorate students in this department and in the process contributed substantially to the development of insect taxonomy in Korea. Prof. Kim moved to the Department of Biology, College of Education, Ewha Womans University in October 1953. There, he supervised Boon Jo Rho, who was majoring in tunicate taxonomy. After graduation, Prof. Rho became an expert on tunicates and later supervised several doctorate students majoring in various groups of marine invertebrate taxonomy in the same department.

From September 1959 to August 1960, Prof. Kim studied at George Peabody College for Teachers, at Nashville, Tennessee, and received the degree of Master of Arts (majoring in Biology). He subsequently attended training courses on marine animal taxonomy held in Bangkok, Thailand, from November to December 1962, sponsored by UNESCO, and interacted with Dr. Raoul Serène, one of the lecturers in the program at that time. Prof. Kim received a Ph.D. with his taxonomic study of Korean anomuran decapods at Seoul National University in February 1965; he had become a professor in the Department of Biology, Sungkyunkwan University from March 1963 to September 1967. His first student was Byung Lae Choe, who majored in molluscan taxonomy, who eventually became full professor himself and a leader in his field. All in all, Prof. Kim contributed to Korean taxonomy not only from his own work, but also through training a whole generation of scholars over the years, who themselves strengthened and grew taxonomic studies of major marine invertebrates.

He subsequently served as a professor at the Department of Zoology, College of Liberal Arts and Sciences, Seoul National University from September 1967. This proved to be his longest tenure, which he relinquished only with his retirement at the age 65 in October 1988.

The history of animal taxonomy in Korea can be divided into two periods, one before 1850, and the other after. There were of course studies of Korean fauna by local scholars before Carolus Linnaeus started his now widely accepted system of classification in 1758, but these did not conform to modern standards. Several groups of European and Korean researchers in the 19th century started studies

of Korean biodiversity afresh after Linnaeus system was adopted. Two Europeans, A. Adams and L. Reeve, first recorded Korean molluscs in 1850, in a paper based on collections at the Jeju Islands between 1843 and 1846. Edward J. Miers subsequently recorded crustacean hermit crabs, crabs, and shrimps in his 1879 publication based on collections made by British fleet sailors. After 1850, there was a general lull in faunal studies, until 1910 to 1945, when Korean animal taxa were studied again, mainly by the Japanese who had occupied Korea. In this period, many studies on mammals, birds, reptiles, amphibians, fishes, molluscs, crabs, shrimps, spiders, insects, flatworms, parasitic nematodes, and protozoa were conducted. In 1941, 122 species of crabs and 26 species of shrimp were recorded by T. Kamita and H. Yoshida, respectively.

The first paper of Prof. Kim was published in 1958, in the first issue of The Korean Journal of Zoology, titled "Four Unrecorded Species of Crabs from the Island Quelpart." After this, he published many more papers on brachyuran decapods from 1958 to 1972. He eventually recorded 168 species, including 46 previously unrecorded. One of these was a new pinnotherid species, *Sakaina koreensis* Kim and Sakai, 1972. As for anomurans, he recorded 45 species (16 were new records) between 1960 and 1972. Based on these results, he wrote the acclaimed "Illustrated Encyclopedia of Fauna & Flora of Korea: Vol. 14, Anomura, Brachyura" published by Ministry of Education, Korea in 1973. Several years later in 1977, he released the "Illustrated Flora & Fauna of Korea: Vol. 19, Macrura," also published by Ministry of Education, Korea.

In 1983, with Dr. John S. Garth, he published an important taxonomic paper titled "Crabs of the family Xanthidae (Crustacea: Brachyura) from the Philippine Islands and adjacent waters based largely on collections of the U.S. Fish Commission steamer Albatross in 1908-1909" in the Journal of Natural History. In this paper, the two authors described 30 genera (three of them new) and 61 species and subspecies (14 of them new). This paper has formed an important basis for many subsequent studies of the crab fauna of the Philippines. While he was working on the decapod taxonomy, he communicated, collaborated, and helped many carcinologists from around the world, including R. B. Manning, L. B. Holthuis, P. A. McLaughlin, A. B. Williams, D. Guinot, F. A. Chace Jr., A. H. and D. M. Banners, J. Haig, T. Sakai, S. Miyake, K. I. Hayashi, K. Baba, M. Takeda, S. L. Yang, and P. K. L. Ng.

Prof. Kim devoted his life to the development of animal taxonomy and the study of the fauna of Korea. For Crustacea, he supervised a number of doctoral students during his tenure in Seoul National University, all of whom have become experts in their fields: Prof. Kyung Sook Lee at Dankook University (amphipods; now retired), Prof. Il Hoi Kim at Gangneung-Wonju National University (originally on barnacles and sea spiders; now working actively on parasitic copepods), Prof. Do Heon Kwon at Inje University (isopods), and Prof. Cheon Young Chang at Daegu University (freshwater copepods, and now also working on gastrotrochs).

With his students over the years, Prof. Kim built the main framework of Korean carcinology and published some

100 papers on these animals. All in all, he discovered 41 new species and subspecies of crustaceans, one new species of chelicerate, and four new species of hexapods (see Appendix I). For these and other academic achievements, he was elected a member of The National Academy of Sciences, Republic of Korea. Prof. Kim served as a president of the Korean Society of Zoology and the Korean Association of Biological Sciences. The influential Korean Society of Systematic Zoology was founded on 8 December 1984 by him and his students, and he was elected its first president. Through this and other activities, he established a strong base for animal taxonomy in Korea.

During his later years, Prof. Kim was also interested in the preservation of nature and served as a president of the Korean Association for Conservation of Nature. In this role, he actively surveyed many areas. Noteworthy was his emphasis on the importance of mud flats and initiated a public campaign on their preservation in Korea. He also served as a Korean committee member of the “Man and Biosphere Program” of UNESCO and helped in designating new biosphere reserves in the country.

Prof. Kim carried out his research on decapod taxonomy using morphology. However, classical taxonomy did not attract a sufficient number of new students, and the Department of Zoology eventually became the Department of Molecular Biology in order to cater to newer methods. While many students adopted molecular biology as a new discipline; Prof. Kim steadfastly continued with his lifetime’s work of morphological taxonomy.

Not surprisingly with such an influential man as my father, as his son, I followed in his footsteps and studied animal taxonomy as well, receiving my Ph.D. with a classical taxonomic study titled “The systematics of the snapping shrimp of *Alpheus* from the eastern Pacific (Decapoda: Alpheidae)” under the supervision of Prof. Lawrence G. Abele at Florida State University in the U.S.A. and then helped him establish a molecular systematic laboratory while a research associate at FSU. I returned to Korea in 1989 from America and took over my father’s position and office at the Department of Zoology, Seoul National University. This unusual situation of “academic succession” was the first such case in the history of Seoul National University.

The scholarly attainments of Prof. Kim are a reflection of his character. He was neither dazzled by superficial brilliance nor swept away by the scientific fashions of the times. He never gave up his original love for the science, and was always a model of seriousness and academic rigor. All his old students cherish the memory of their supervisor, white-haired and struggling with piles of literature and specimens, as “a professor who is not versatile with technology, dull-headed to common customs, takes few personal pleasures, but has a warm and caring heart.” He had been suffering from Alzheimer’s disease for several years and passed away peacefully five days after his 92nd birthday, while cared for by his second daughter, Woomi, a medical doctor, and with me, his son, by his side.

APPENDIX I: TAXA NAMED BY HOON SOO KIM

Crustaceans

Order Decapoda

New genera

Euryxanthops Garth and Kim, 1983
Neolioxantho Garth and Kim, 1983
Philippicarcinus Garth and Kim, 1983

New species

Uroptychus zezuensis Kim, 1972
Sakaina koreensis Kim and Sakai, 1972
Actumnus marissinicus Takeda and Kim, 1977
Globopilumnus multituberosus Garth and Kim, 1983 [presently *Eupilumnus laciniatus* (Sakai, 1980)]
Actaeodes quinquelobatus Garth and Kim, 1983
Actumnus granotuberosus Garth and Kim, 1983
Euryxanthops dorsiconvexus Garth and Kim, 1983
Euryxanthops flexidentatus Garth and Kim, 1983
Glabropilumnus spinidentatus Garth and Kim, 1983 (presently in *Lentilumnus*)
Neoactumnus unispina Garth and Kim, 1983
Neolioxantho asterodactylus Garth and Kim, 1983
Parapanope hexacarapas Garth and Kim, 1983
Parapilumnus euryfrons Garth and Kim, 1983 (presently *Pilumnus neglectus* Bals, 1933)
Parapilumnus nefissurus Garth and Kim, 1983 (presently in *Aniptumnus*)
Parapilumnus tuberculatus Garth and Kim, 1983 (presently in *Latopilumnus*)
Philippicarcinus oviformis Garth and Kim, 1983
Philippicarcinus tuberomerus Garth and Kim, 1983

New subspecies

Caridina denticulata keunbaei Kim, 1976 [presently *Neocaridina keunbaei* (Kim, 1976)]

Order Amphipoda

Gammarus galgosensis Lee and Kim, 1980
Gammarus odaensis Lee and Kim, 1980
Gammarus soyoensis Lee and Kim, 1980
Gammarus zeongogensis Lee and Kim, 1980
Ampithoe brevivalma Kim and Kim, 1988
Ampithoe koreana Kim and Kim, 1988
Ampithoe youngsanensis Kim and Kim, 1988
Peramphithoe baegryeongensis Kim and Kim, 1988
Peramphithoe namhaensis Kim and Kim, 1988

Order Isopoda

Gnorimosphaeroma hoestlandti Kim and Kwon, 1985
Dynoides spinipodus Kwon and Kim, 1986
Gnorimosphaeroma naktongense Kwon and Kim, 1987
Gnorimosphaeroma chejuensi Kim and Kwon, 1988
Cleantioides emarginata Kwon and Kim, 1992
Cleantioides poorei Kwon and Kim, 1992

Order Cyclopoida

Acanthocyclops tokchokensis Kim and Chang, 1991

Order Harpacticoida

Harpacticella itoi Chang and Kim, 1991
Attheyella paucisetosa Chang and Kim, 1992
Attheyella byblis Chang and Kim, 1992

Order Sessilia [Thecostraca]

Membranobalanus koreanus Kim and Kim, 1983
Acasta chejudoensis Kim and Kim, 1988

Acasta paraspinifera Kim and Kim, 1988

Order Lepadiformes

Paralepas phyllacanthusi Kim and Kim, 1988

Pycnogonida

Order Pantopoda

Achelia crurispinifera Kim and Kim, 1985

Insecta

Order Diptera

Glyptotendipes goryoensis Ree and Kim, 1981 (presently *Lipiniella moderata* Kalugina, 1970)

Microcricotopus seoulensis Ree and Kim, 1981

Polypedilum edensis Ree and Kim, 1981

Polypedilum youngsanensis Ree and Kim, 1981

APPENDIX II: PUBLICATIONS OF HOON SOO KIM IN CHRONOLOGICAL ORDER

- Kim, H. S. 1958. Four unrecorded species of crabs from the Island Quelpart. *Korean Journal of Zoology* 1: 7-8 (in Korean, with English summary).
- . 1958. The crabs in the vicinity of Daichun sea-bathing place. *Journal of Biological Sciences* 3: 11-13 (in Korean, with English summary).
- . 1960. Crabs and hermit crabs from Ulreung I. and Dogdo I. *Journal of Korean Culture Research Institute, Ewha Womans University* 1: 341-344 (in Korean).
- . 1962. Fauna of the crabs on the coasts of the western islands of Korea. *Korean Journal of Zoology* 5: 51-55 (in Korean, with English summary).
- Kang, Y. S., H. S. Kim, H. S. Kang, and I. S. Hong. 1962. On the unrecorded species of *Paramecium* in Korea. *Korean Journal of Zoology* 5: 56-60 (in Korean, with English summary).
- Kim, H. S. 1963. On the distribution of anomuran decapods of Korea. *Sung Kyun Kwan University Journal* 8: 287-311 (in Korean, with English summary).
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- , and J. S. Song. 1965. Morphological study of Microfilariae found in the area of Yongju-Gun. *Korean Journal of Zoology* 8: 11-14 (in Korean, with English summary).
- Rho, B. J., and H. S. Kim. 1966. Studies on the Echinodermata (Echinoidea, Asteroidea and Ophiuroidea) from Korea, pp. 273-313 (including pls. 1-9). In, *Commemoration Papers for Dr. Emma Kim's Forty Years Teaching at Ewha Womans University, Seoul*.
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- , B. J. Rho, and C. J. Sim. 1968. Marine sponges in South Korea (1). *Korean Journal of Zoology* 11: 37-47 (including pls. 1-3).
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- , and ———. 1969. A study on the copepods and branchiopods from Han River, Korea, I. Kwangnaru and Bokwang Dong regions. *Seoul National University, Department of Zoology Journal, Zoologica* 8: 1-17 (including pls. 1-5) (in Korean, with English summary).
- . 1970. A checklist of the Anomura and Brachyura (Crustacea, Decapoda) of Korea. *Seoul National University Journal, Biology and Agriculture Series (B)* 21: 1-34 (including pls. 1-5).
- Choe, B. L., and H. S. Kim. 1971. New records of three anomuran species (Crustacea, Decapoda) from Korea. *Korean Journal of Zoology* 14: 27-32.
- Kim, H. S., and B. J. Rho. 1971. On the distribution of the benthic animals of Korean coastal Seas, 1. Jeju Island region. Report for the IBP, Korean National Committee for the IBP 5: 7-27.
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- , and K. B. Park. 1972. New records of the brachiuran species (Crustacea: Decapoda) from Korea. *Korean Journal of Zoology* 15: 57-69 (including pl. 1).
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