

CHRONICLE AND INFORMATION

**TO THE JUBILEE OF D. SC. GERMAN ZUYEV**



On 27 June, 2021, German Zuyev, D. Sc., Professor, and one of the oldest researchers at the A. O. Kovalevsky Institute of Biology of the Southern Seas, is celebrating his 85<sup>th</sup> birthday.

German Zuyev was born on 27 June, 1936, in Chita into a military family. In 1954, he graduated from school in Chita and entered the faculty of ichthyology at the A. I. Mikoyan Moscow Technical Institute for the Fishery Industry. In 1959, G. Zuyev received a diploma of an ichthyologist and fish breeder and was sent to work at the Atlantic Scientific and Commercial Perspective Exploration (Kaliningrad) as an engineer-ichthyologist. Within two years (September 1959 to June 1961), he took part in four research cruises to the North Atlantic.

In 1961, he moved to Sevastopol and entered the PhD graduate school at the Sevastopol Biological Station of the Academy of Sciences of the Ukrainian SSR (hereinafter the AS of the USSR). During the graduate studies, he took part in two cruises on the RV “Akademik A. Kovalevsky” – to the Mediterranean and Red seas. In August 1964, German Zuyev presented to the Scientific Council the PhD thesis “Functional Foundations of the External Structure of Cephalopods”, which served as the basis for his enrollment in the nekton department of the Institute of Biology of the Southern Seas of the AS of the USSR as a junior researcher. In February 1965, he successfully defended the PhD thesis at the Dissertation Council of the Zoological Institute of the Academy of Sciences of the Soviet Union, specializing in invertebrate zoology; in July 1965, he was awarded the degree of PhD in biology. In 1966, his first monograph – “Functional Foundations of the External Structure of Cephalopods” – was published.

In September 1967, G. Zuyev was transferred from the nekton department to the ichthyology department, where he continued studying morphology and ecology of cephalopods, as well as prospects of their commercial use.

In 1961–1968, he was taking an active part in research cruises to the northwestern Indian Ocean, *inter alia* the Red and Arabian seas, the Persian Gulf, and the Gulf of Aden, where he has amassed a large collection of cephalopods. The results obtained formed the basis for his monograph “Cephalopods of the Northwestern Indian Ocean” (1972).

In 1972, German Zuyev was promoted to senior researcher at the IBSS ichthyology department. He was involved in the study of the orange-back squid intraspecific structure based on morphophysiological, ecological, and genetic variability. He analyzed the main biological peculiarities of epipelagic squid populations (growth rate, age, and natural mortality) and developed methods of visual observation and quantitative accounting of epipelagic squids.

Since 1976, he was the scientific supervisor and main executor of several topics, being developed in the ichthyology department on the instructions of the State Committee for Science and Technology.

Moreover, he was the executor of contractual topics with the research institutes of the Ministry of Fisheries, aimed at studying the productivity of pelagic oceanic communities, as well as identifying and rationally use of their resources.

In 1981, G. Zuyev was appointed the head of the laboratory of productivity of nekton animals. In 1982, he defended D. Sc. dissertation “Species Structure, Ecology, and Productivity of Nekton Oceanic Squids”, specializing in hydrobiology.

In 1983–1984, he was in an assignment in Conakry (the Republic of Guinea), where he headed the laboratory of hydrobiology of the Scientific Research Center of the Marine Hydrophysical Institute of the AS of the USSR and carried out ichthyological research. The results obtained formed the basis of the collective monograph, as well as many scientific articles and abstracts.



In 1996, German Zuyev became the head of the IBSS ichthyology department. Since that time, his scientific interests are related to studying the commercial fish of the Black Sea, identifying the patterns of the formation of commercial fish aggregations, and scientific substantiation of the optimization of the fishing. He developed and successfully tested an ecological and geographical method for determining the populations of Black Sea mass fish species of commercial importance. In recent years, he is involved in assessing and predicting the state of populations of mass and commercial fish species

in the Sea of Azov – Black Sea basin under anthropogenic load and climatic changes. The results obtained by him made a significant contribution to modern ideas about the dynamics of the intraspecific structure of anchovy and sprat. Thus, the reproductive potential of mass pelagic fish species of the Black Sea was studied. An assessment of the effect of fishing and climatic changes on their biological peculiarities and population dynamics was given. Valuable recommendations for the organization of rational fishing and conservation of biological resources were developed.

In 2001, G. Zuyev was awarded the title of Professor. For 60 years of work at the IBSS, he has gone from graduate student to head of the department and wrote more than 240 scientific articles. German Zuyev is the author of two individual monographs and two popular science books, co-author of five collective monographs, and editor of two monographs. He took part in research cruises on the RV “Mikhail Lomonosov”, “Akademik Vernadsky”, and “Professor Vodyanitsky” to the Red and Mediterranean seas and Indian and Atlantic



oceans; he worked in challenging expedition conditions. He has extensive experience in scientific and pedagogical activities: for some years, he gave lecture courses to students of Sevastopol universities and supervised the practice, coursework, and diploma work of students representing biological faculties of several universities in the country. Six PhD theses were defended under his supervision.

Dear German Vasilyevich, we sincerely admire your purposefulness, initiative, high professionalism, and dedication to science! On the day of your jubilee, we wish you good health, active longevity, success, family well-being, and fulfillment of desires!

*Colleagues from IBSS ichthyology department*

### **К ЮБИЛЕЮ ДОКТОРА БИОЛОГИЧЕСКИХ НАУК ГЕРМАНА ВАСИЛЬЕВИЧА ЗУЕВА**

27 июня 2021 г. исполняется 85 лет Герману Васильевичу Зуеву, доктору биологических наук, профессору, одному из старейших сотрудников ФИЦ «Институт биологии южных морей имени А. О. Ковалевского РАН».