

In memoriam Professor Patrice Francour

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In memoriam, Professor Patrice FRANCOUR

(April 13, 1960 – October 13, 2019)

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It is with shock and great sadness that we heard of the sudden passing of our distinguished colleague and friend, Professor Patrice Francour, at the age of 59, from pancreatic cancer against which he courageously fought till the end. During his whole life, he worked to protect the seas and the oceans, especially the Mediterranean Sea, which was so dear to him. Born in Paris in 1960, Patrice Francour studied marine biology and ecology at Paris VI University. For his master degree internship (DEA), he went to Marseille in 1984 to study the fauna of the *Posidonia oceanica* meadows with Prof. C.F. Boudouresque's team. A few years later (1990), he completed his PhD at the Banyuls-sur-Mer Marine Station, under the dual auspices of Paris VI University and Aix-Marseille II University. His PhD was centered on the study of the dynamics of the *Posidonia oceanica* ecosystem in the Port-Cros National Park. He focused his research on quantifying the biomass variations of the different compartments of this ecosystem in order to develop the modelling of its trophic functioning. Subsequently (1994-1995), he worked as a postdoctoral researcher at the Portobello Marine Laboratory, in New Zealand, collaborating with Prof. E. Harvey's Lab. Patrice Francour worked as an active and much appreciated member at the GIS Posidonie in Marseille, until he was first recruited as an Assistant Professor at the University of Nice-Sophia Antipolis in 1998 in the Coastal Marine Environment Laboratory, headed by Prof. A. Meinesz. In addition to teaching ecology at the University, he was also at that time the director of the Natural Sciences Department, Nice IUFM, as he was deeply committed to the training of natural

sciences secondary school teachers. After his HDR (habilitation to supervise research) in 1999, he was nominated Full Professor at the University of Nice-Sophia Antipolis in 2002. From 2008 to 2015, he was the Director of the ECOMERS Laboratory (a lab specialized in Marine Ecology and Ecotoxicology), then Deputy Director since 2016. He was one of the contributors to the development of this laboratory, now renamed as UMR ECOSEAS (Ecology and COnservation Science for sustainable sEAS), specialized in Marine Socio-Ecology. As a specialist in fish communities in rocky areas and seagrass beds (*Posidonia oceanica*), his work mainly took place in marine protected areas (especially Port-Cros National Park, Scandola Marine Reserve, Cap Roux-Saint Raphael Fishery Reserve). His research in fundamental marine ecology was chiefly aimed at understanding the structure and dynamics of fish assemblages, the role of biodiversity in ecosystem functioning and the importance of habitat structure. He also contributed to numerous innovative approaches in applied marine ecology research. He significantly contributed to improving the available knowledge on the effects of protection measures on fish communities, the role of management in Mediterranean marine protected areas, the sustainable exploitation of coastal marine resources by small-scale fisheries and the use of artificial reefs for the restoration of local fishing resources. On the strength of his expertise and competences, he was involved in the scientific committees of several marine parks. As a participant and executive board member of the GEM grouper research association (Groupe d'Etude du Mérou), Patrice Francour had a passionate interest in the grouper, these large peaceful fishes, curious and attracted by divers, but severely impacted by humans, quite often locally extirpated because of the impact of recreational and professional fishers. With other scientists, he was committed to the preservation of the emblematic and overexploited dusky grouper *Epinephelus marginatus* along the French coasts. As a fish expert, he

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regularly published new or updated records of fish species reported from France or the Mediterranean basin (Gobiidae, Kyphosidae, Siganidae, Fistulariidae, Oplegnathidae). One part of this activity was devoted to the spread of non-indigenous species of fish in the North-Western Mediterranean. He made a major contribution to the development of expertise to assist marine protected area managers and staff members in assessing the effects of multiple human activities (fishing, anchoring, etc.). Recently, he was also involved in citizen science to encourage members of the public to participate in field monitoring of fish populations. During his scientific career, Patrice Francour authored or co-authored more than 90 publications and 9 book chapters on echinoderms, fishes, seagrasses, artificial reefs and fish invasions in the Mediterranean Sea. He supervised more than fifteen PhD students and a large number of master's degree students. In addition to his teaching activities in biology and ecology, he also undertook a wide range of scientific expert reports for various universities and scientific agencies in France and abroad. In particular, he was since 2006 an active and highly appreciated member of the IUCN Grouper and Wrasse Specialist Group, then too since 2012 of the Snapper, Seabream and Grunt Specialist Group. He was working recently with IUCN colleagues on the preparation of fish species assessments for the IUCN Red List of threatened marine fishes, on both grouper and wrasse and certain other specific fish family groups, and on Mediterranean and Eastern Atlantic marine fishes in general. From New Zealand to the Mediterranean Sea, Patrice especially enjoyed field work, diving with colleagues, observing fishes in nature, studying fish communities, tracking non-indigenous species...while passing pleasant moments in good company. He especially liked challenges. One event in particular in Patrice's life deserves to be highlighted. In 1988, Patrice Francour narrowly escaped death during a field-trip devoted to the conservation of the monk seal in

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70 Mauritania. He was the only survivor of a group of five, when their jeep hit a mine. He showed 71 great courage in recovering from his injuries, but remained profoundly affected by this tragedy. If in that tragic event death let him escape, this has unfortunately not been the case with his 72 73 recent illness. The void he has left to family, friends and colleagues will remain unbridgeable. But above all, we wish to remember him as he was. Patrice Francour was a researcher 74 motivated by a deeply passionate interest in marine life, he was an excellent underwater diver 75 and photographer, sometimes tempted to dive a little too deep for his diving buddies, attracted by 76 some small cryptic goby, one of his last passions! He dived underwater intensively throughout 77 his life, and again plunged below the surface of the sea for the last time in July 2019, just before 78 the worsening of his illness and his last journey. 79 Colleagues and friends, researchers and divers, students and collaborators will greatly miss 80 him, but we know for certain that anyone who knew him will keep alive the memory of the good 81 82 times spent together. Our deepest thoughts and sympathy are with his family. Vale, ciao, salut Patrice and rest in peace in the divers' paradise with your beloved groupers... 83 84 Mireille Harmelin-Vivien, Paolo Guidetti and Virginie Raybaud 85 86 87 88



91 Figure 1. Patrice Francour. AG GEM 2010. © J.G. Harmelin

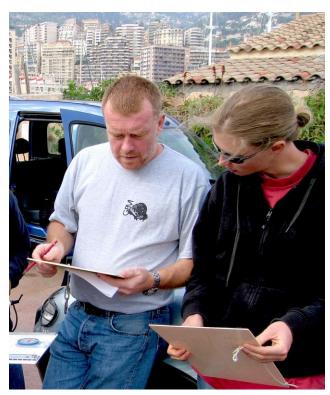




Figure 3. Patrice Francour counting groupers in Port-Cros National Parc 2009. © J.M. Cottalorda