

# The 7th International Palaeontological Congress



## Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems

Oceans provide a diverse range of habitats that have been inhabited and shaped by different groups of organisms throughout the Earth's history. The fossil record shows that life in the oceans was once dominated by extinct groups (e.g., trilobites, ammonites, conodonts) and has been constantly evolving. Owing to its comparatively higher preservation potential, the marine fossil record continues to be the main source for understanding past diversity, ecology, and evolution, and to analyse mass extinctions and biodiversification events. New data and cutting-edge analyses advance our understanding of the phylogenetic relationships of extinct and extant groups, interactions between fossil species, and biodiversity changes across time and space in response to environmental fluctuations and biotic interactions. In this symposium, we aim to bring together researchers working on marine invertebrate and vertebrate groups to discuss different aspects of the evolution of marine life, from the individual to the ecosystem level, at different spatial and temporal scales.

### Conveners:

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If you are interested in this symposium, please contact the convenors.