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## **ANNOUNCEMENT OF OPPORTUNITY – SPECIAL SESSION NOW OPEN**

### **Effects of multiple stressors on ecosystem process, functioning and services**

**Session chairs: Martin Solan and Jasmin Godbold, University of Southampton**

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Marine ecosystems deliver benefits and ecosystem services that are vital to the development, prosperity and well-being of society, but the mediation of many ecosystem processes and functions are undermined by multiple co-occurring stressors, most notably altered biodiversity, resource exploitation, climate change, and habitat modification. Whilst empirical studies have documented the effects of specific stressors on ecosystem functioning, the effects and mechanisms by which multiple stressors influence the provisioning of ecosystem services are largely unknown. We do know that the ecological consequences of anthropogenic forcing can lead to dramatic changes in species composition and functioning, and that responses include non-linear and accelerating effects that reflect the additive, synergistic and/or antagonistic affects that result when combining multiple stressors, yet these are not sufficiently documented. This session recognizes that the combined effects of multiple stressors on ecosystem functioning can diverge from those predicted from the effects of stressors determined in isolation. We seek contributions that reassess the strength and existence of biodiversity-function-service relations within the context of sequential and/or co-occurring multiple stressors in marine coastal, shelf and/or deep ocean habitats.

Priority will be given to presentations that introduce the combined effects of multiple stressors and/or that go some way in defining generic mechanisms or properties that aid our understanding of how multiple stressors influence ecosystem processes, functioning and/or services.

If content allows, and subject to peer review, the session may form the basis for a thematic issue in a suitable international journal.

We look forward to meeting you in Qingdao!

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