

DSV 2017 Seminars



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

DIPARTIMENTO DI
SCIENZE DELLA VITA

PhD Program in *Environmental Life Sciences*

Wednesday, 29 November 2017 12:30

Seminar room, I floor, Q Building

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Host: Antonio Terlizzi

Ecosystem stability in a human-dominated seascape: current knowledge and future challenges

The unprecedented increase of multiple human pressures is undermining the stability of marine ecosystems through the depletion of biodiversity and the erosion of their resilience potential. Understanding whether current conservation strategies are suitable to mitigate human impacts on marine communities, and the implementation of cost-effective tools to assess biodiversity changes and pressure-state responses, therefore, are issues of overriding importance to inform and guide environmental management.

Here, the role of protection and networks of Marine Protected Areas in enhancing the stability of marine communities will be discussed based on a set of manipulative and descriptive experiments focused on sessile benthos from the Mediterranean Sea. Recent methodological frameworks for cost-effective monitoring of biodiversity and expected cumulative impacts will be also presented and debated, providing fresh perspectives for future advances.

