

Monday 1 December 2014

Coherent patterns in collapse fimarine ecosystems

New Tasmanian-led research is abining adjubble as identifying become reconstruction and a second sec

In a paper just published by the Royal Society of London. Dr Scott Ling led a global study

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Overgrazing strips the seafloor of productive and diverse keln heds in the transition to impoverished urchin barrens. The 19 coauthors who contributed key data from 11 temperate reef systems spanning both hemispharman and the seafloor of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of productive and diverse keln heds in the transition of the tran

"The clear message is that natural ecosystems collapse social critical tipping points, and the contract of the

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A suite of milestone research papers has been published this week by the prestigious *Philo*

from coastal reef systems to the open ocean. Manathan Something sites of the disciplines, across six clear direction for future research needs in this area.

Or I inc. said the global patterns in sea urchin overgrazing confirm what has been observed in Tasmania, and his clear message is the "an analysis in the transfer of the tran

"That in kals bedaugre telerate seems is record in which and the reef collabses to urching here."

reaches a tipping point where grazing overwhelms the kelp and the reef collabses to urching here."

"Reservation de la performación de la performación

Professor Craig Johnson, also from IMAS and a co-author of the study, added that: "We

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Background

Marine ecosystem collapses have been reported worldwide and can as the major socioeconomic impacts: file the state of the major sociodegradation, or the overgrazing of kelp beds. Safeguarding the state of the major sociohumans is impactive; however knowing when they
are special and often it can be too late to halt
collapse once it starts to occur.

Because of this, Dr Ling said that degradation of marine ecosystems is of announced as resource managers who are left in the same and t

A general feature emerging from across all examined in the Theme Issue is that examined in the Theme is to be a second of the se

blames the straw but they don't see the huge burden the ecosystem was carrying in the

Dr.Ling coes on to explain: "Importantly when the camel's back is broken it simply doesn't stand back up once you take the load off of its back; the camel needs a rest before it can get up and go on, or maybe it'll never get back up - it's the same with ecosystems, push

Dr Ling said that as human pressures on the marine environment increase the concern is that major ship and the concern is the major ship and the concern is the concern is

"Marine regime id 'é sn' is present major proces for ecosystem management and in a month of increasing human pressures it is likely that collapses and the persistence of degraded continuous in increasing human pressures it is likely that collapses and the persistence of degraded continuous in increasing human pressure in the persistence of degraded continuous increasing human pressure in the persistence of degraded continuous increasing human pressure in the persistence of degraded continuous in the persistence of degraded conti

"While the scientific community has made great strides in understanding of regime shifts, strategies and practical tools for managers to anticipate and respond to are

"We must tipping points of ecosystems and make sure we remarked avoid crossing them. This is expected in a second process and a wind a

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