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Coral Reef Restoration Workshop


Korallenriffwissen
zum
Internationalen Jahr
des Riffes 2018
IYOR
2018


























Earth and Environmental Sciences
Palaeontology & Geobiology
Widespread sponge Hyrtios
Genetic diveristy in the Indo-
species complexes are often found in sponge genera.
species level the taxonomy of sponges can get quite
sis it was asked if genetic variations in the sponge Hyrtios
nge is thought to be one of the most widely distributed
erial included 165 individuals of the entire Indo-Pacific




prediction for a
crobiome
Sergio Vargas
iences, Paleontology and Geobiology,
München, Munich, Germany


CAST YOUR
VOTE!!


LMU
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MAXIMILIANS-
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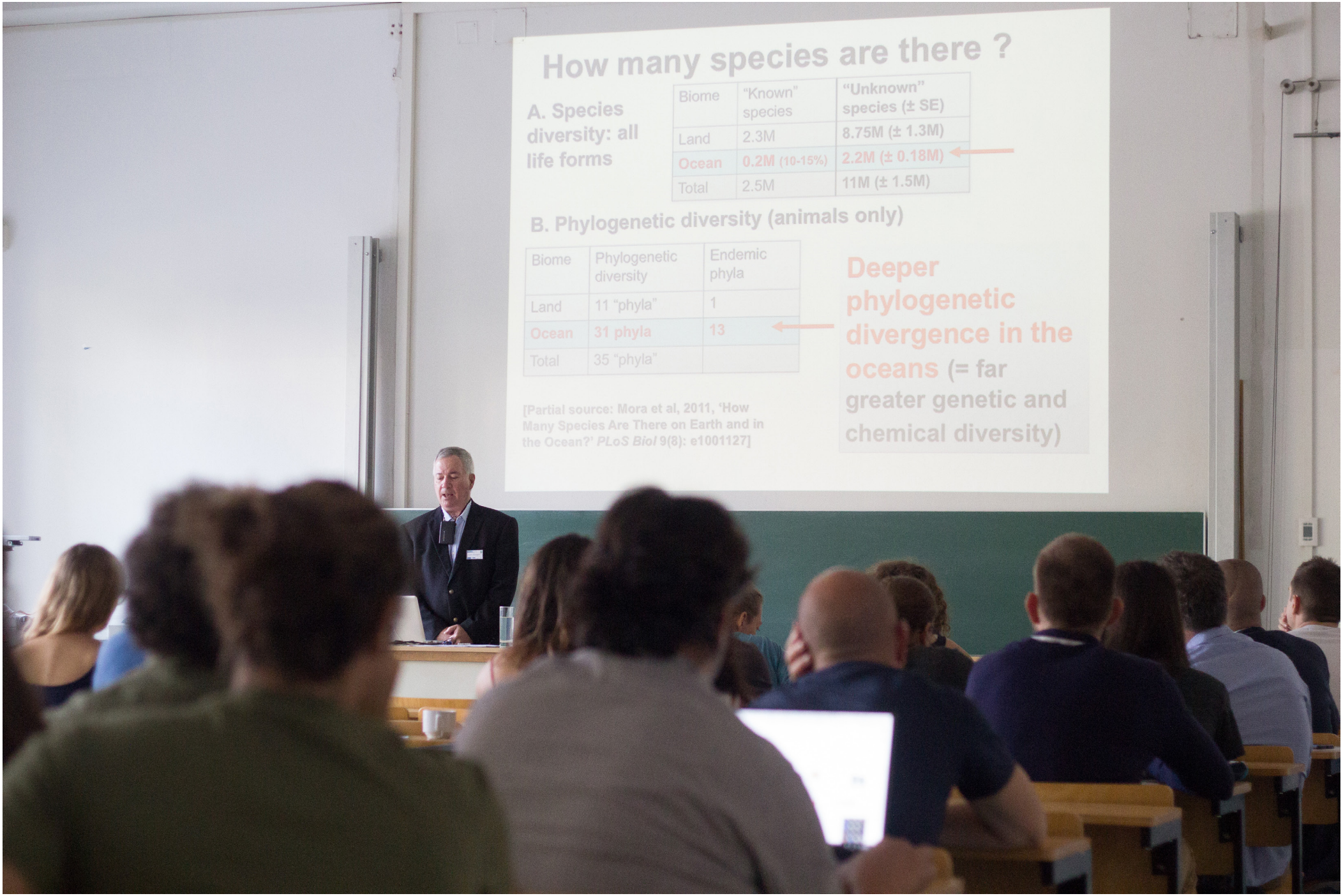
MÜNCHEN
Earth and Environmental Sciences
Palaeontology & Geobiology
Microplastic mapping in sp
tial bioindicators?
Elsa Girard[1], Marku
Contact: elsa.girard@campus
ABOUT MICROPLA
In 2010, 4.8 to 12.7 million tons
the marine realm[1]. Once in the
breaks down and becomes se
The plastic production has rea
per year since 2016[2], a produc
microplastics, known as prima
inputs enlarge continuously t
mainly composed of polyeth
(PP) and polystyr
likely to be
alarming
marine
mussel
their m
decrea
Microplastic: <5 mm
* Macroplastic litter tends to degrade over time, producing secondary microplastics. This fragmentation happens mainly due to ultraviolet light (UV), physical abrasion, oxygen availability and temperature[4]. With decreasing size, plastic particles become available to a wider range of marine animals[5], including sponges.
Jack Wolfskin


How many species are there ?
A. Species diversity: all life forms
Biome | "Known" species | "Unknown" species (± SE)
Land | 2.3M | 8.75M (± 1.3M)
Ocean | 0.2M (10-15%) | 2.2M (± 0.18M)
Total | 2.5M | 11M (± 1.5M)
B. Phylogenetic diversity (animals only)
Biome | Phylogenetic diversity | Endemic phyla
Land | 11 "phyla" | 1
Ocean | 31 phyla | 13
Total | 35 "phyla" |
[Partial source: Mora et al, 2011, 'How Many Species Are There on Earth and in the Ocean?' PLoS Biol 9(8): e1001127]
Deeper phylogenetic divergence in the oceans (= far greater genetic and chemical diversity)


are there ?


YRS 2018
Session 1
Keynotes
Session 2
Session 3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Session 1
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Session 2
Session 3

