

Mollusk Faunas as Indirect Indicators for Paleo-Seagrass Vegetation



Photo by W. Renema



Progress report by Sonja Reich

Department of Geology, NCB Naturalis, Leiden,
the Netherlands

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Very short Progress report by Sonja Reich

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SUMMERSCHOOL 2012



Actuopaleontological study on gastropod associations as a proxy for seagrass vegetation



Photo by E. Locatelli



The College of The Bahamas
Gerace Research Centre
San Salvador, Bahamas



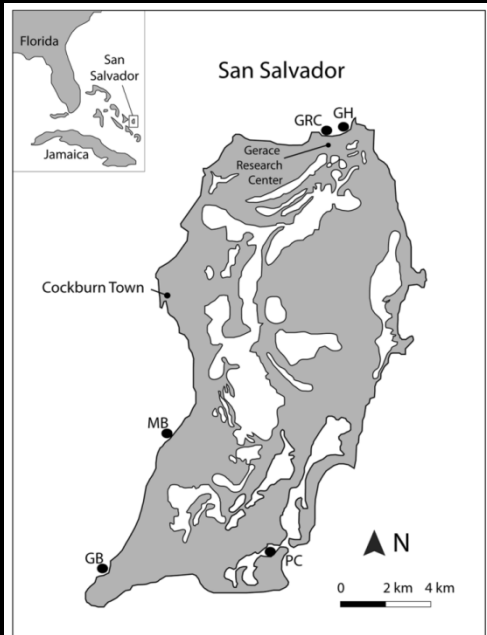
Actuopaleontological study on gastropod associations as a proxy for seagrass vegetation

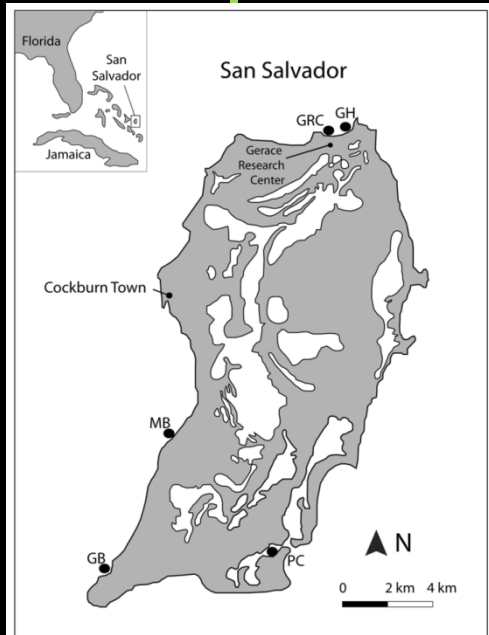


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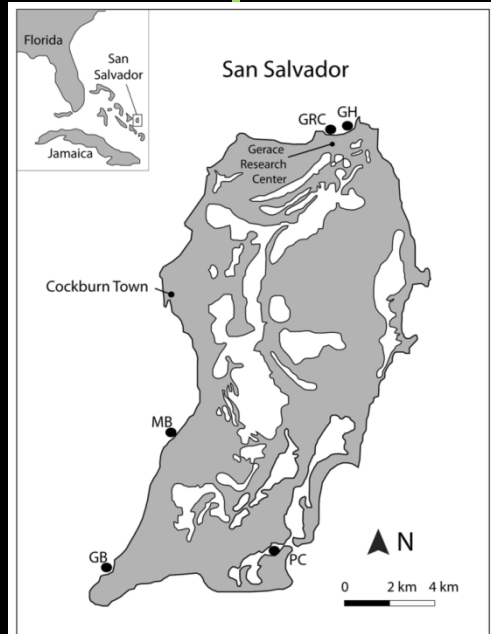
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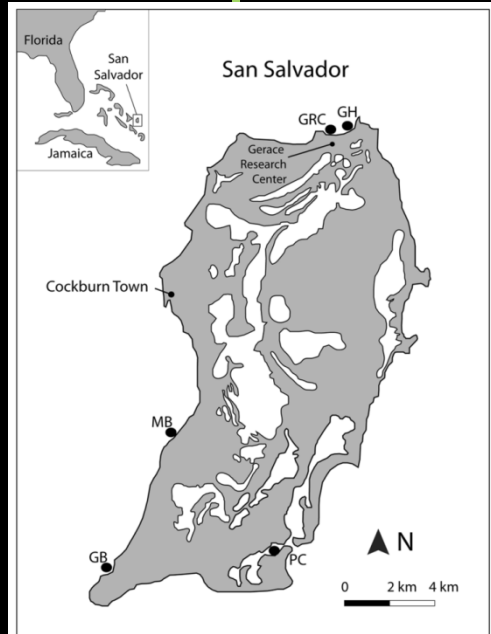
24 samples





→ 200 specimens/ sample

24 samples



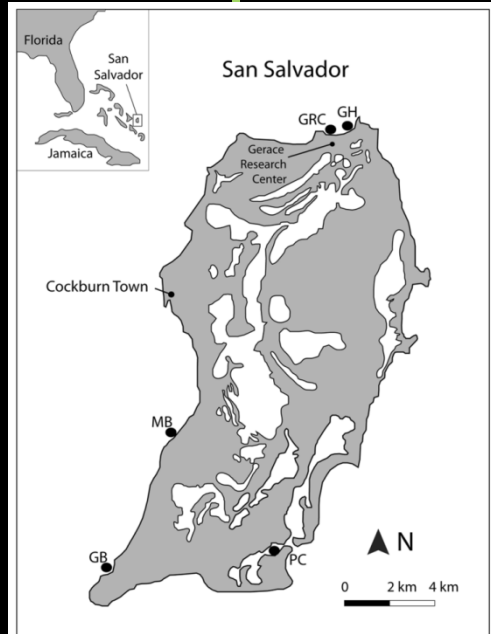


24 samples

200 specimens/ sample



scalebar = 1 mm





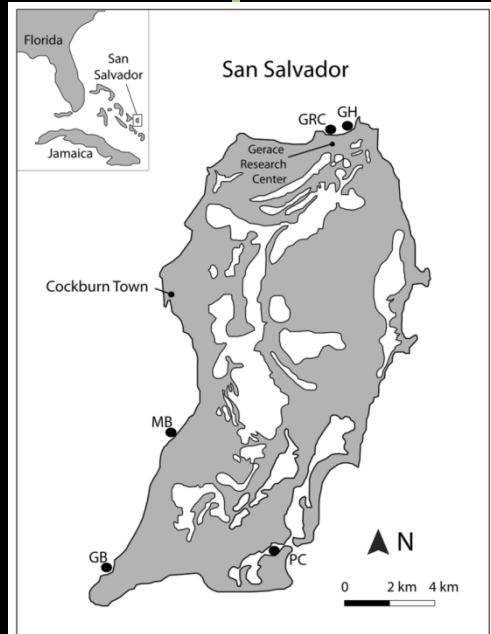
24 samples

200 specimens/ sample

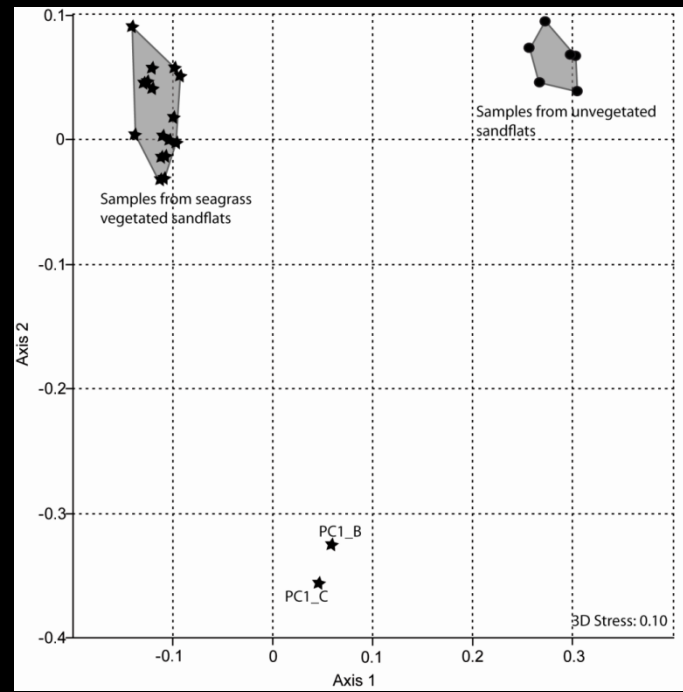
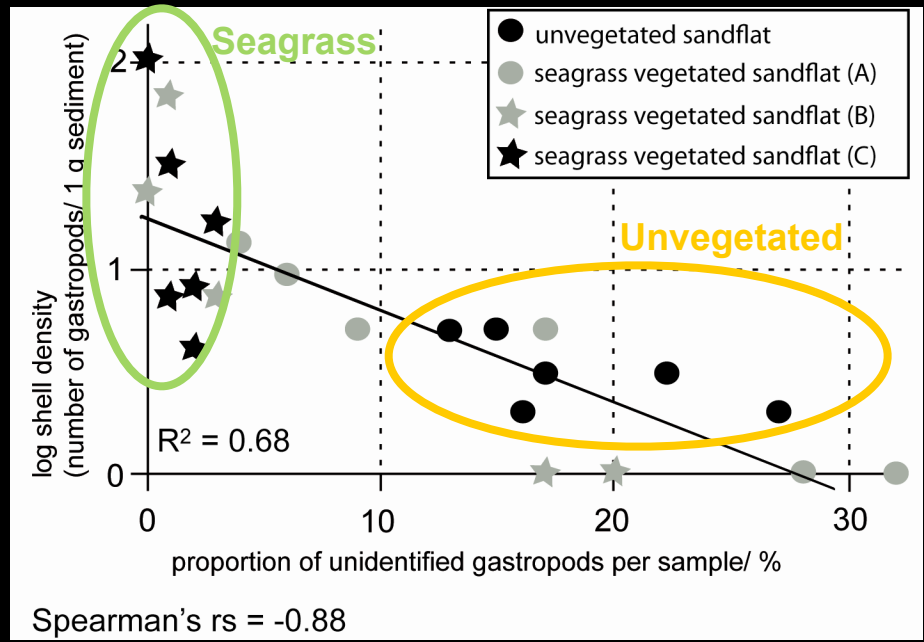


114 identified species

scalebar = 1 mm



RESULTS

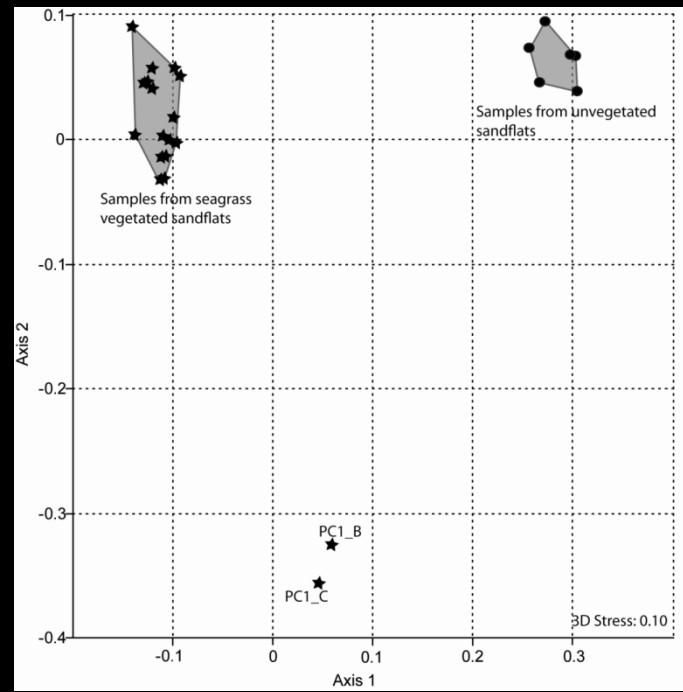
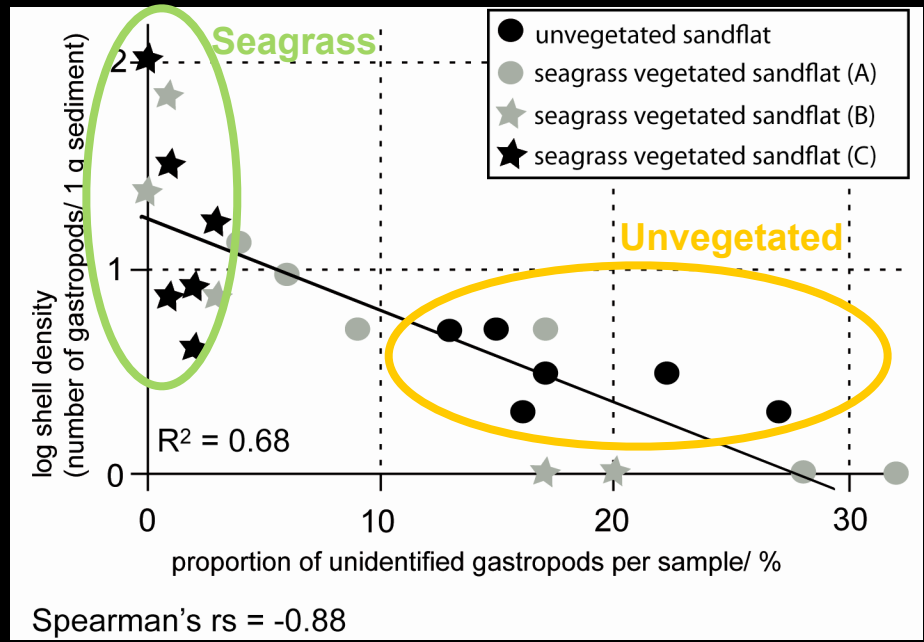


nMDS (Bray-Curtis) on proportional species abundances

PALAIOS special issue
submission in Jan. 2013

ANOSIM: $R = 0.89$, $p < 0.0001$

RESULTS



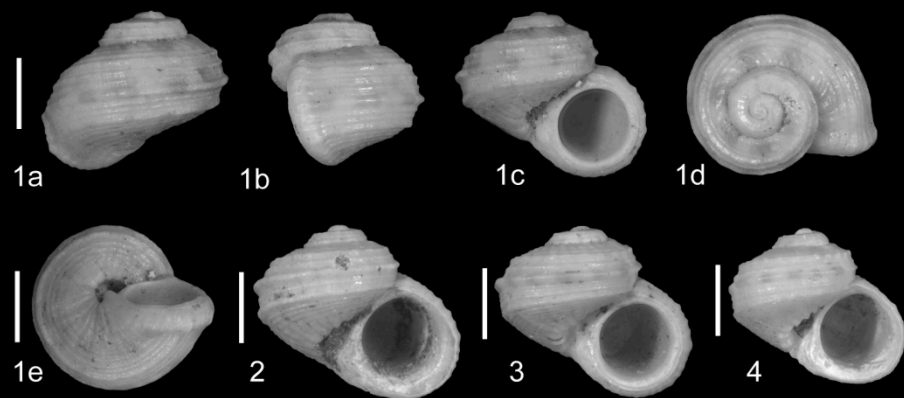
nMDS (Bray-Curtis) on proportional species abundances

PALAIOS special issue submission in Jan. 2013

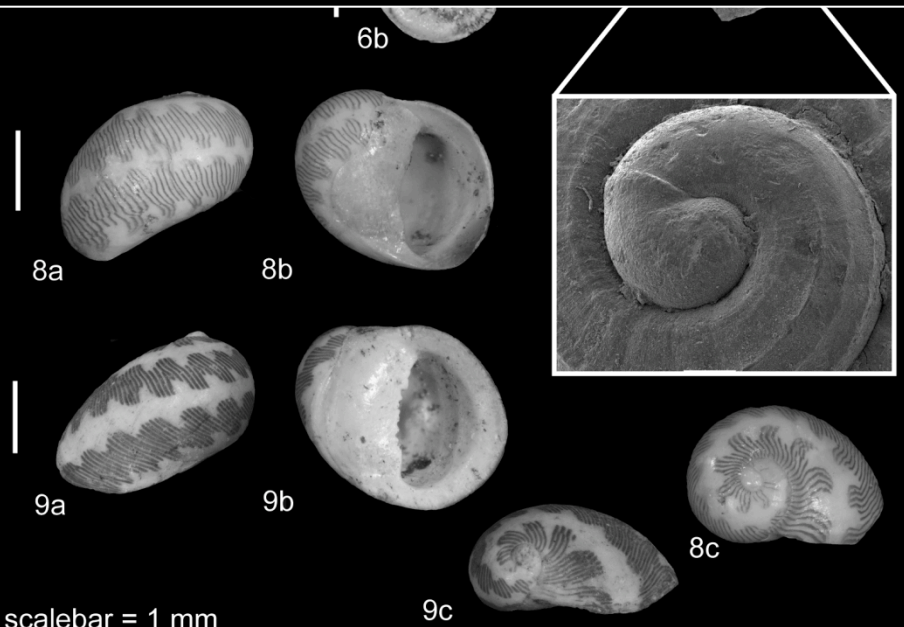
ANOSIM: $R = 0.89$, $p < 0.0001$

MORE PAPERS...

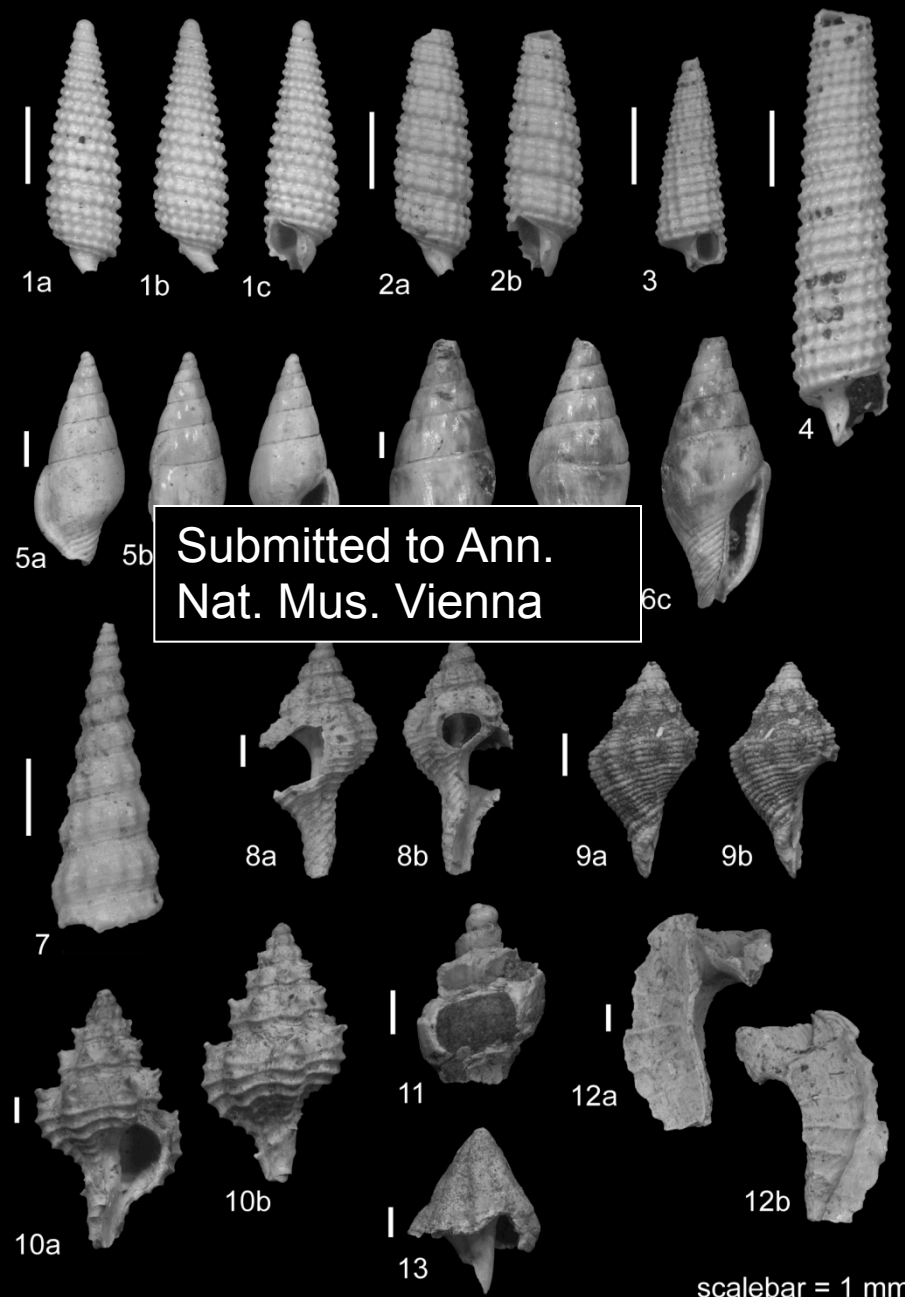
BANJUNG ANTE FAUNA



Seagrass Molluscs from Banjung Ante: A highly diverse molluscan seagrass fauna from the Late Burdigalian (Early Miocene) of Banjung Ante (South-central Java, Indonesia)



scalebar = 1 mm



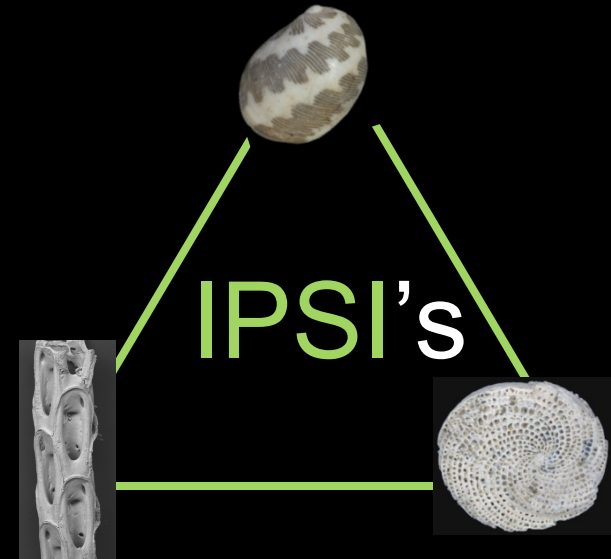
Submitted to Ann. Nat. Mus. Vienna

scalebar = 1 mm

IN PROGRESS...

Indirect Indicators for paleo-seagrass habitats
(IPSI's)

Oxygen and carbon isotope signals in
seagrass meadows and coral gardens
(Miocene, Indonesia)



CONFERENCES 2012



TALK: Mollusk Faunas as Indirect Indicators for Paleo-Seagrass Vegetation

POSTER: Gastropod associations as a proxy for seagrass vegetation in a tropical, carbonate setting (San Salvador Bahamas)

Thank you for your attention!



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ACKNOWLEDGEMENT

Thanks to...
the THROUGHFLOW Project,
the Gerace Research Center, San Salvador,
Bahamas, and especially
M. Kowalewski, T. Rothfus, D. Smith, and
B. Cerares,
L. Lourens (Universiteit Utrecht)
for additional funding:
Naturalis Biodiversity Center
Paleontological Society of America