

News from Underwater Meadows

On the Miocene diversification of Indo-Pacific molluscan
communities associated to seagrass meadows



by Sonja Reich

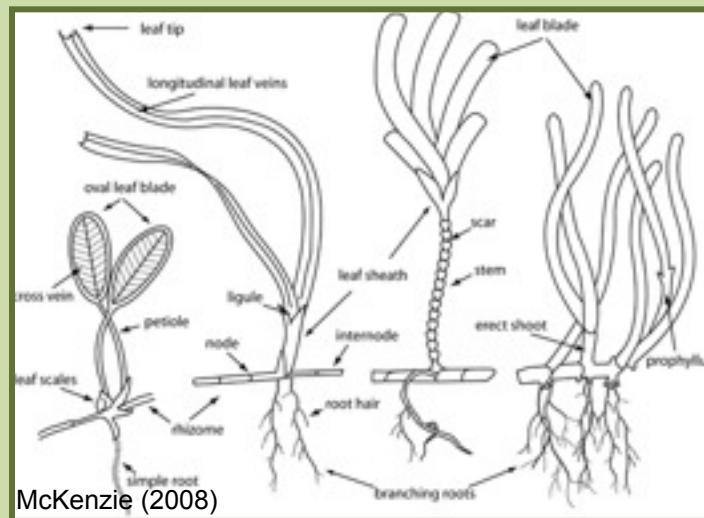
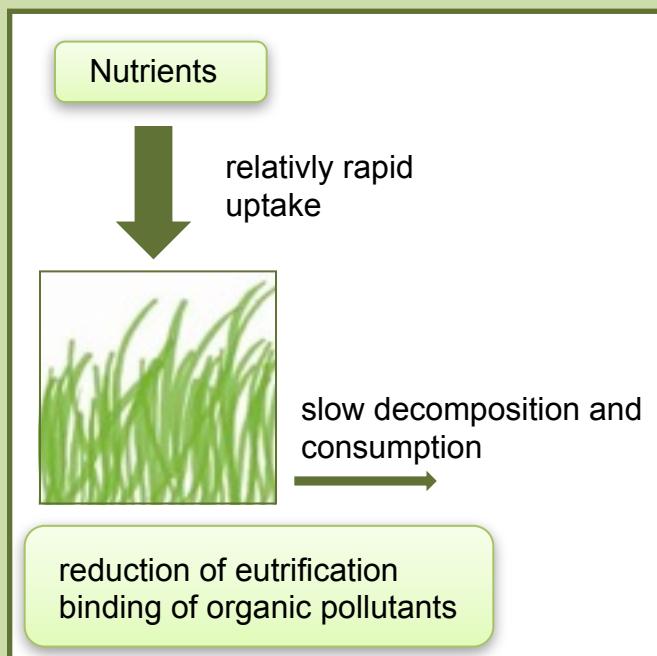
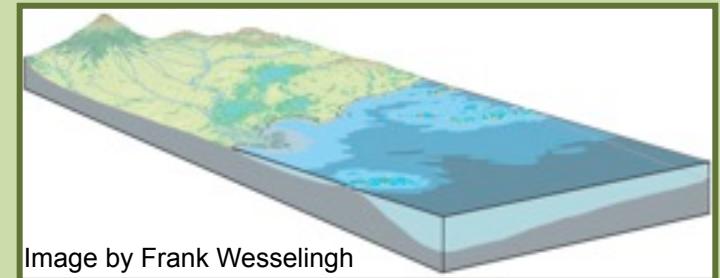
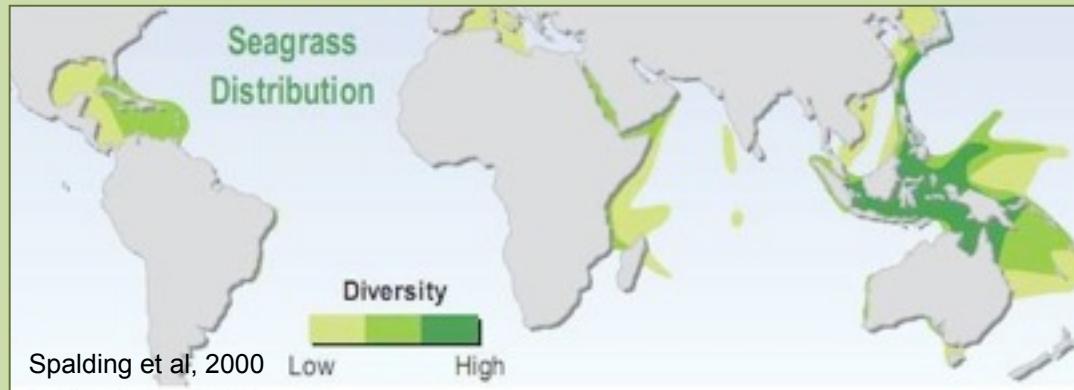
Department: NCB Naturalis, Leiden,
the Netherlands

Supervisors: Frank Wesselingh & Jon Todd

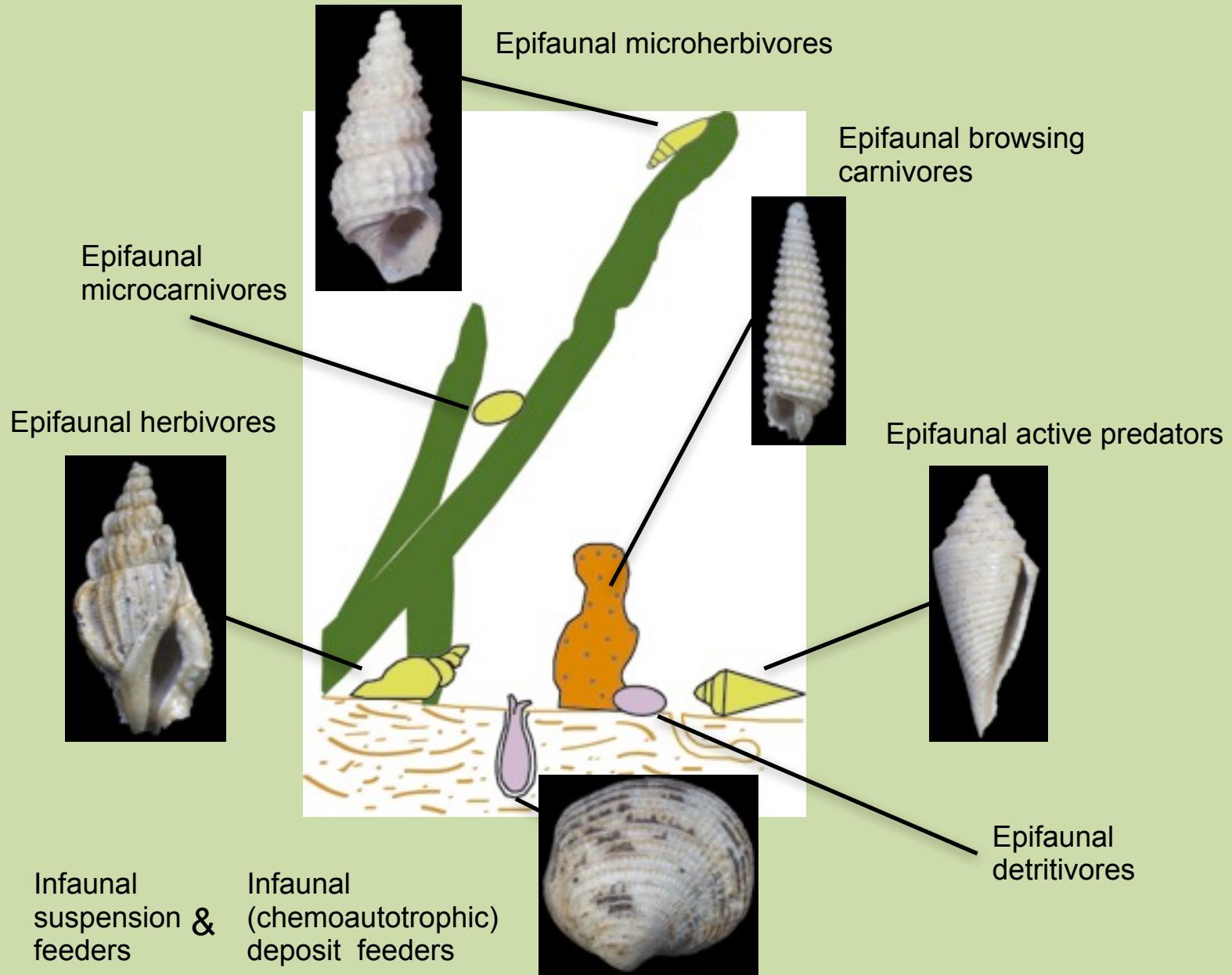


. naturalis

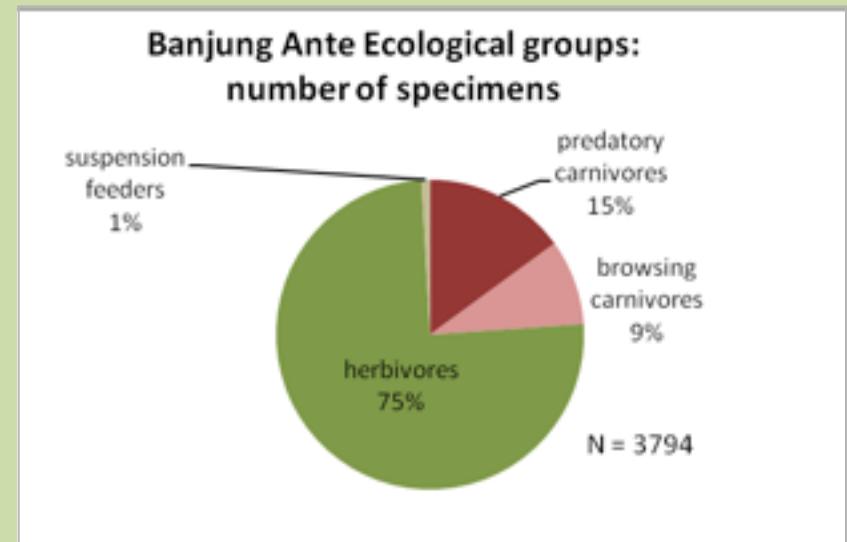
A short summary on seagrasses



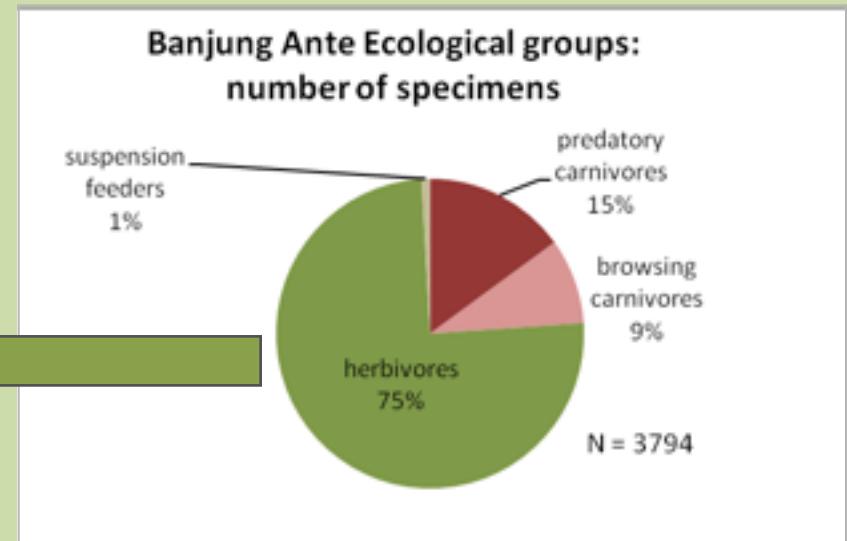
The ecological diversity of seagrass molluscs



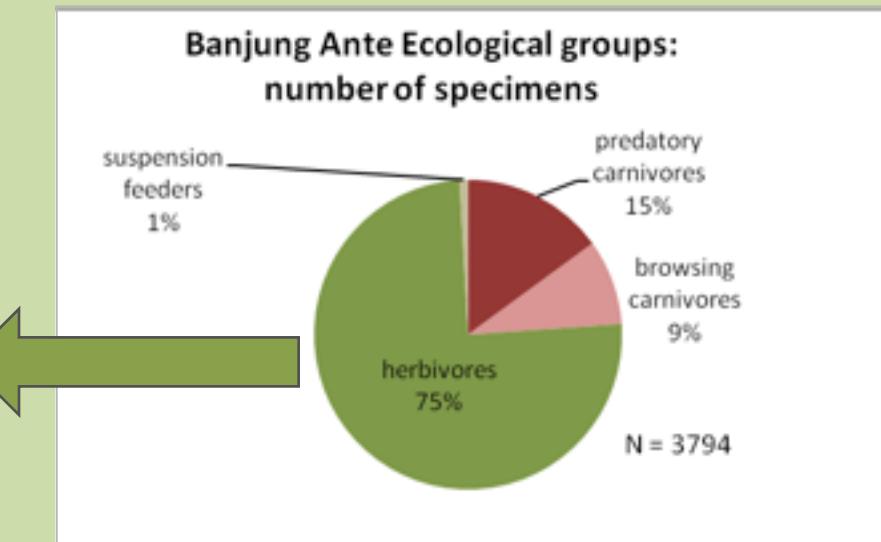
Abundance of small herbivores in the Banjung Ante fauna



Abundance of small herbivores in the Banjung Ante fauna



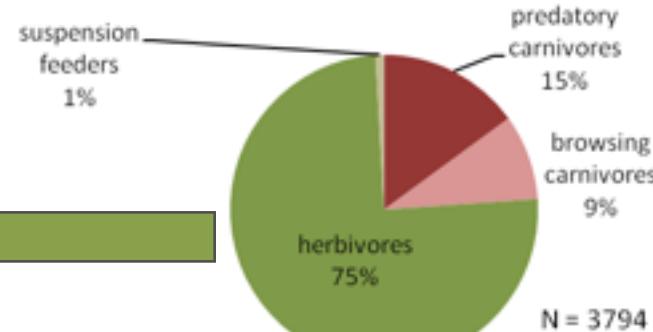
Abundance of small herbivores in the Banjung Ante fauna



Abundance of small herbivores in the Banjung Ante fauna



Banjung Ante Ecological groups:
number of specimens



TF 110 (Bontang)



TF 110 (Bontang)



TF 110 (Bontang)



TF 110 (Bontang)



TF 110 (Bontang)



A seagrass mollusc community from TF 110



1 cm

A seagrass mollusc community from TF 110



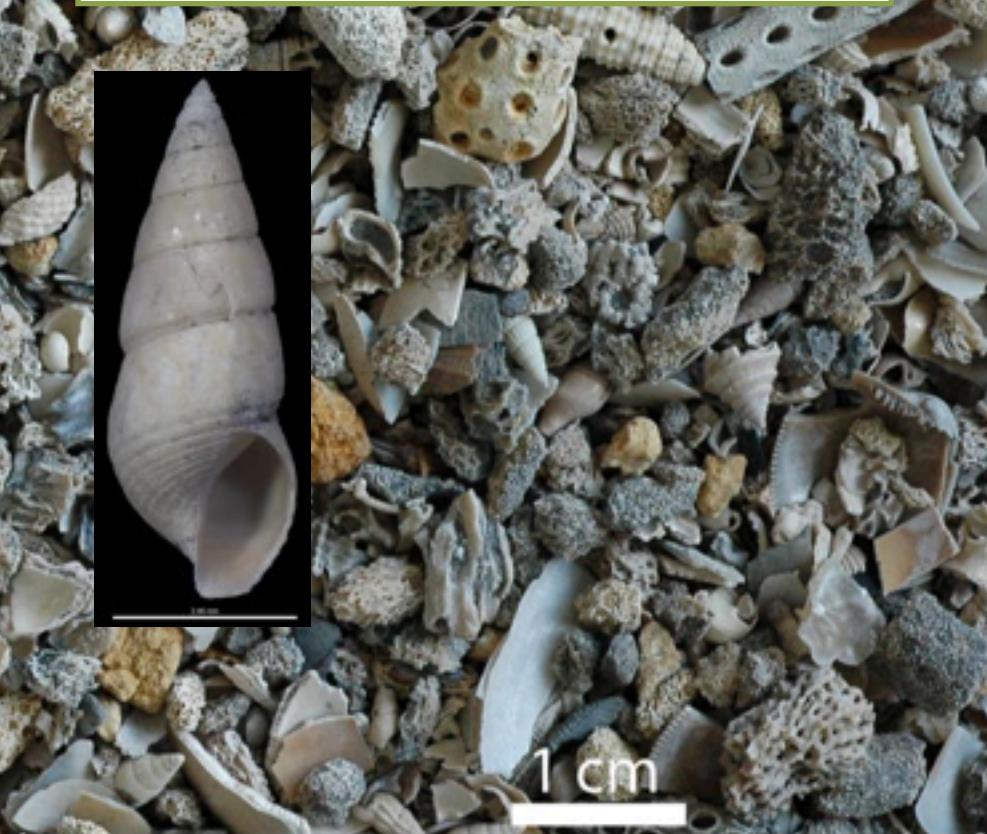
A seagrass mollusc community from TF 110

First impressions:
same groups as Banjung Ante, but
different composition
most common species: *Rhinoclavis* sp.

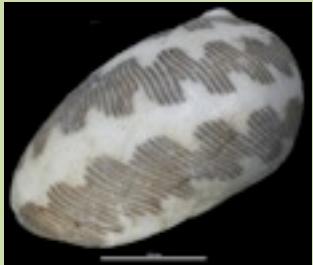


A seagrass mollusc community from TF 110

First impressions:
same groups as Banjung Ante, but
different composition
most common species: *Rhinoclavis* sp.



Smaragdia as an indicator for seagrass



Smaragdia sp.

Smaragdia as an indicator for seagrass



Smaragdia sp.



Smaragdia semari Beets, 1941

Smaragdia as an indicator for seagrass



Smaragdia sp.

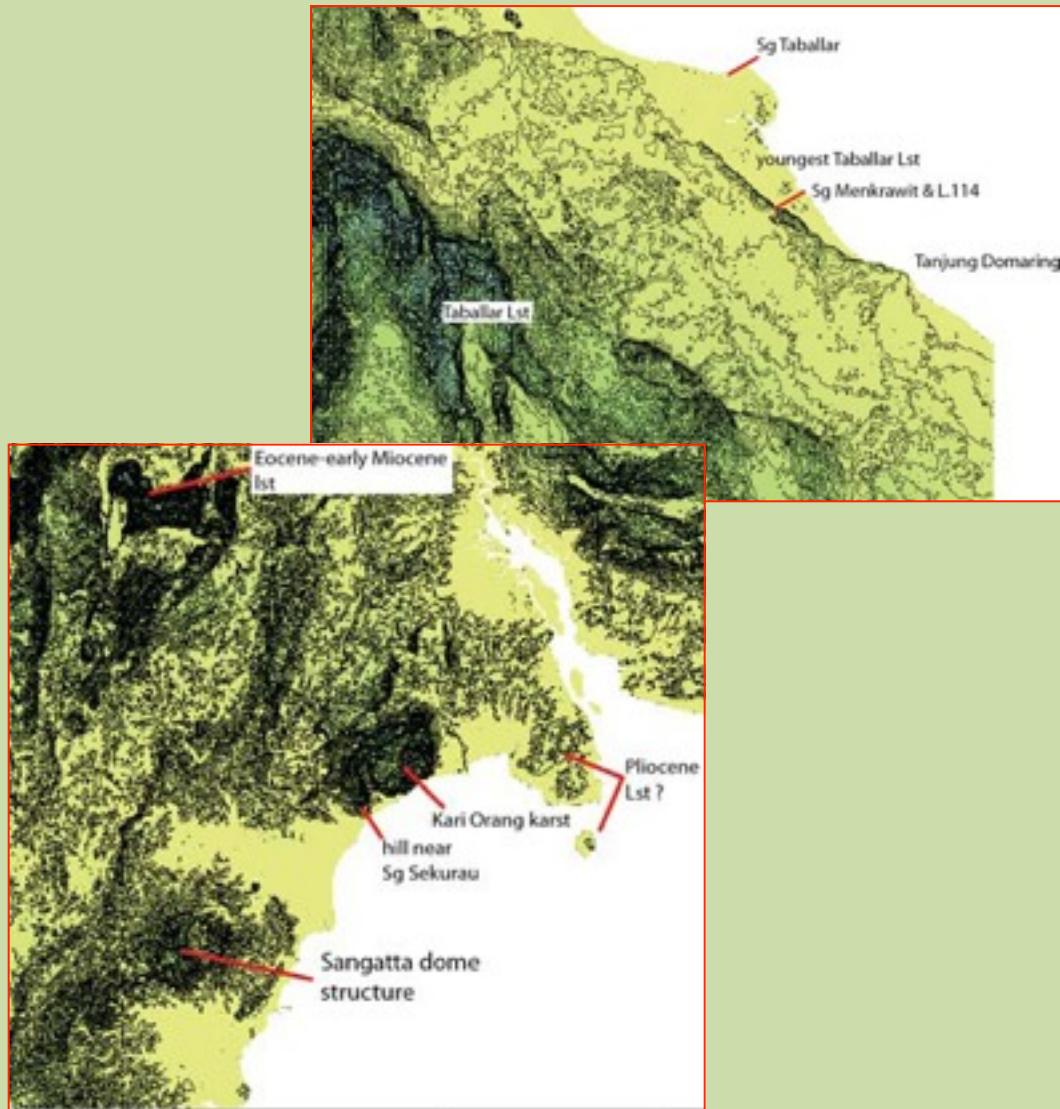


Smaragdia semari Beets, 1941

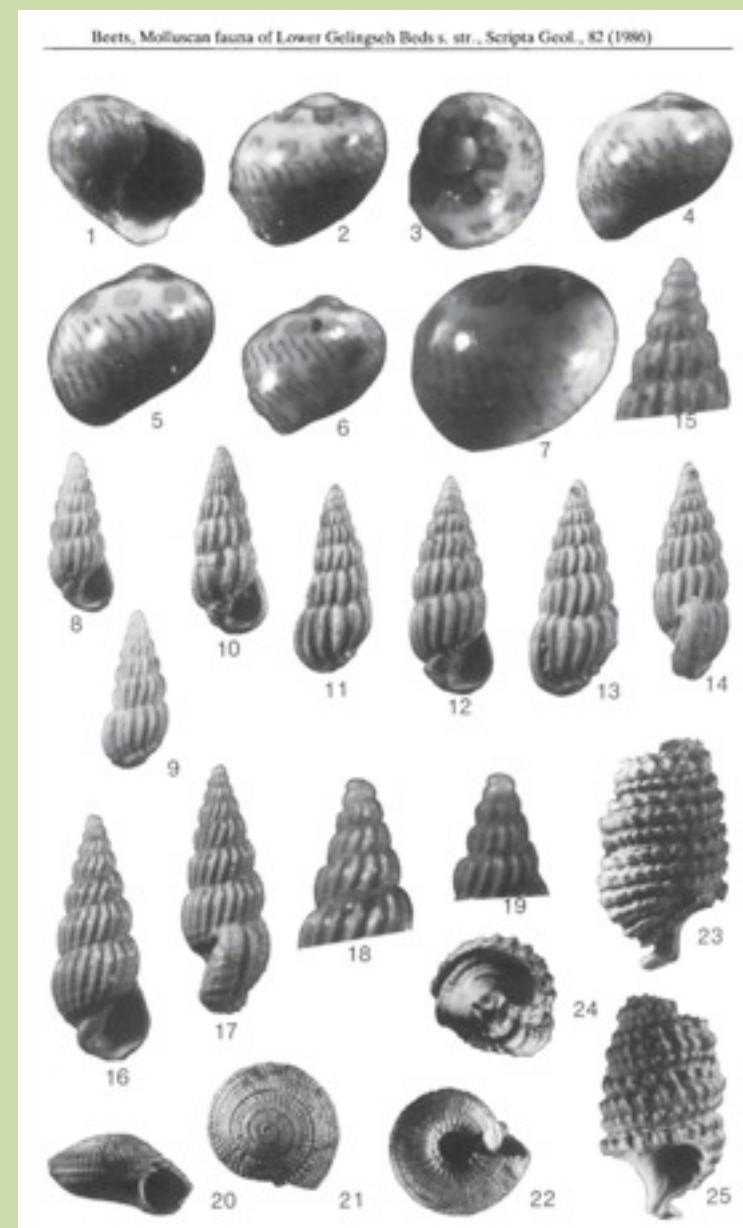
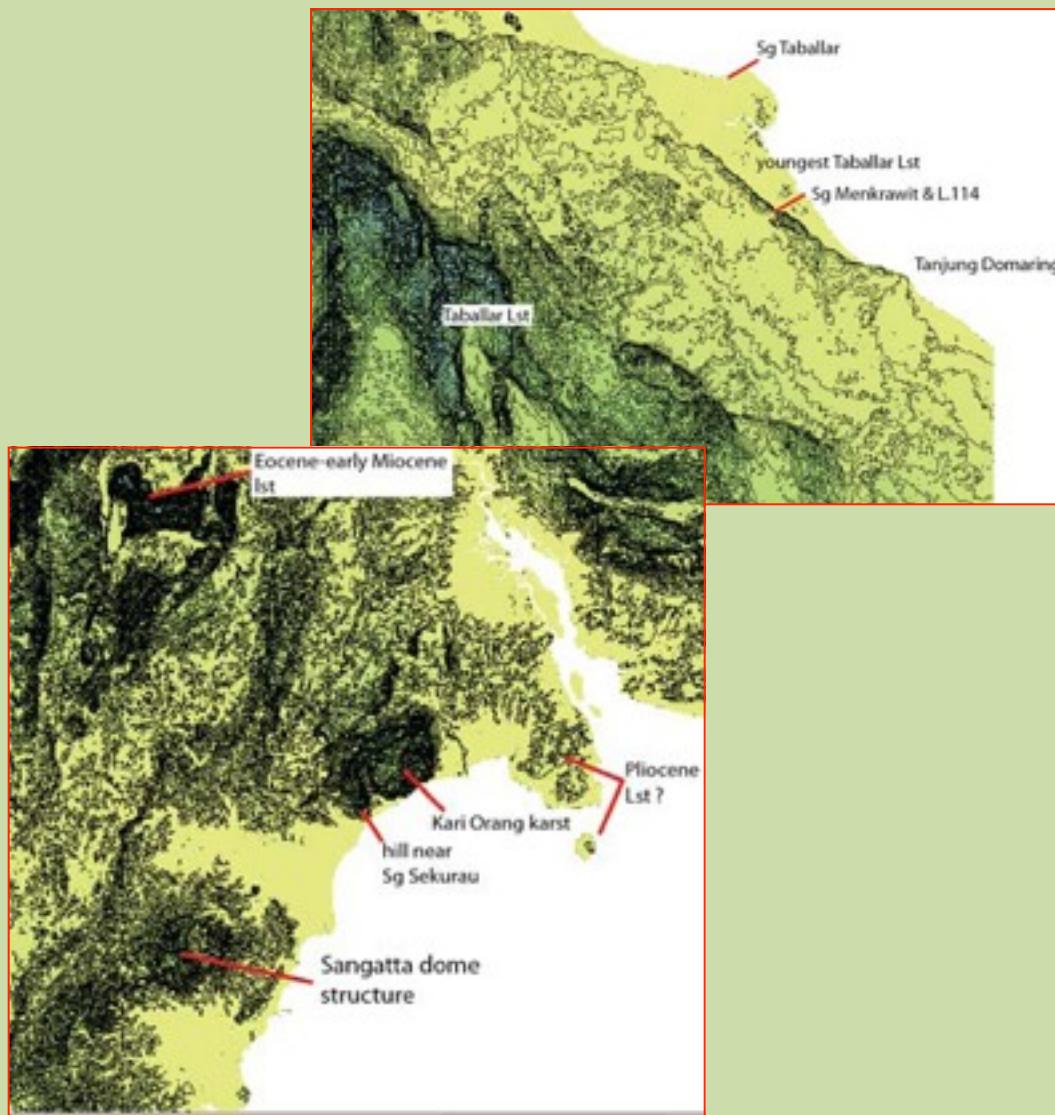


Smaragdia gelingsehensis Beets, 1986

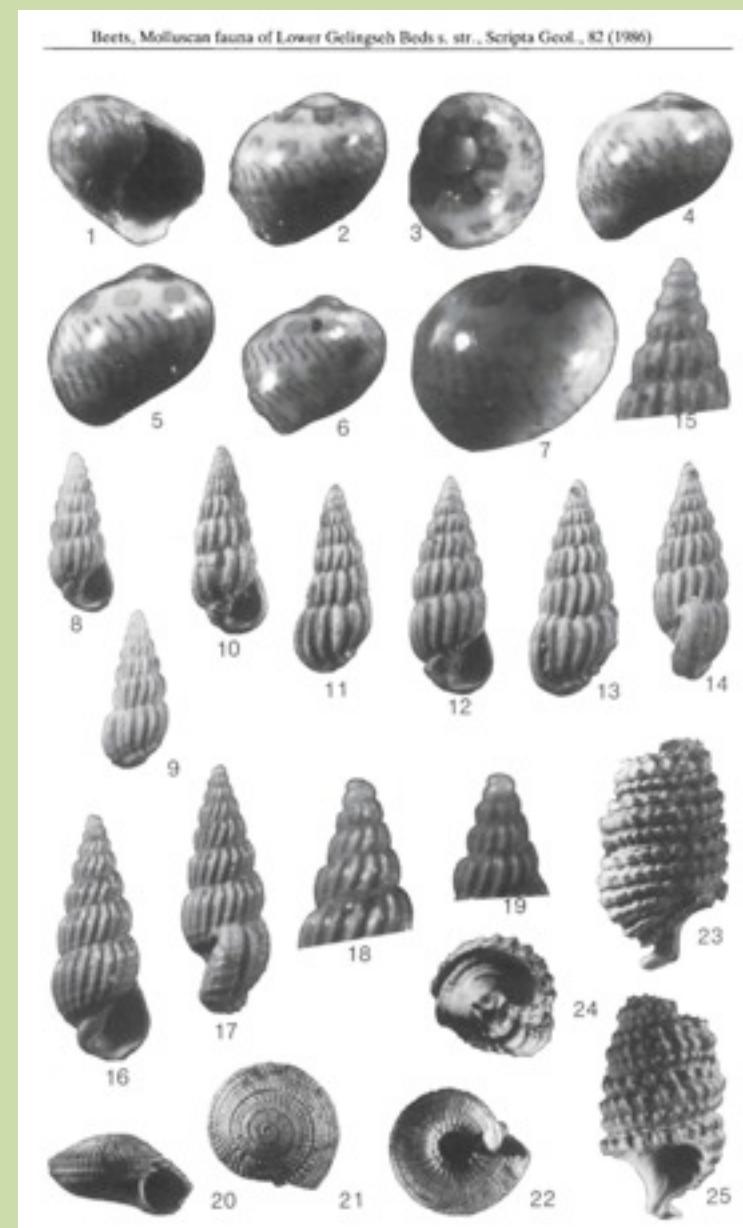
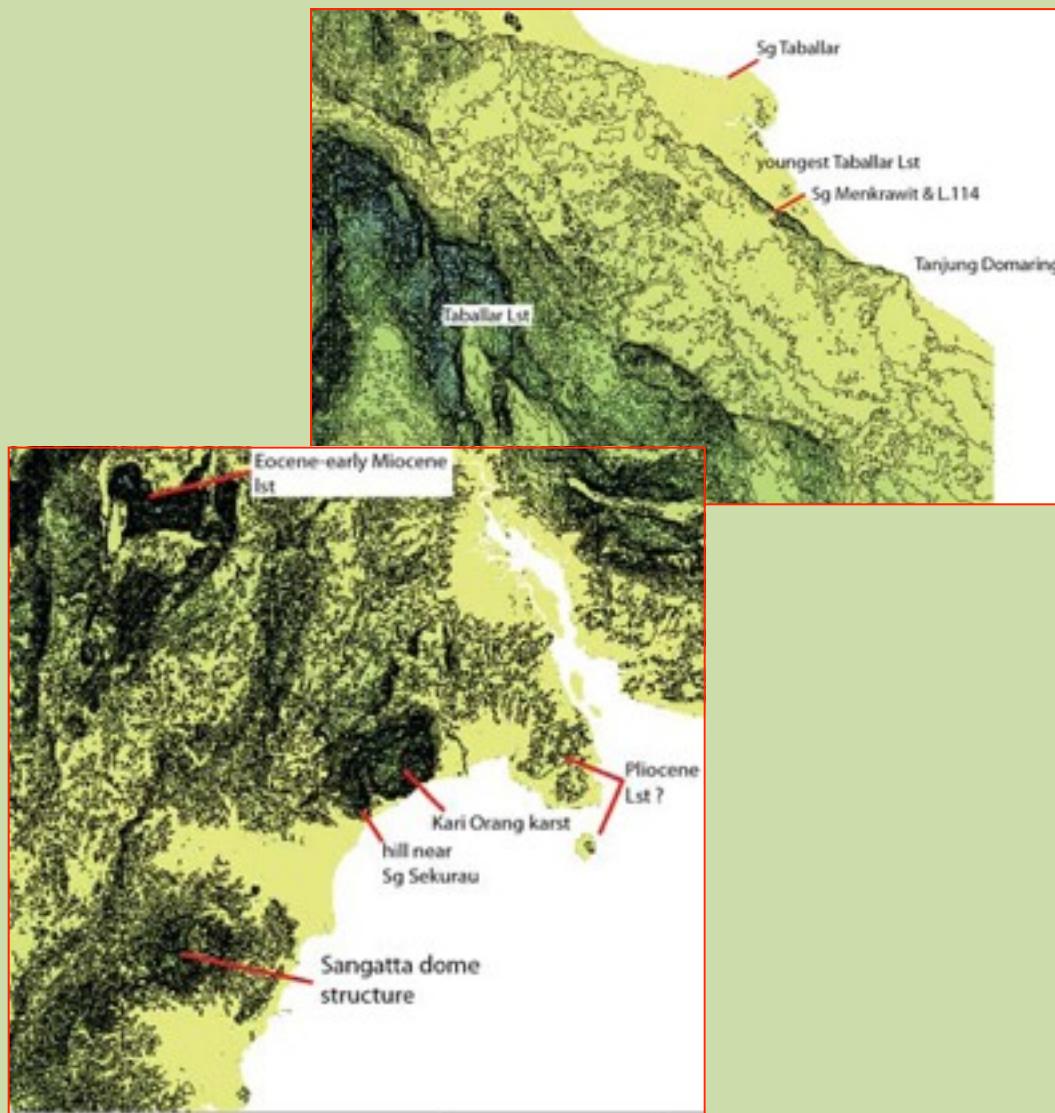
This fieldwork : Searching for more seagrass faunas



This fieldwork : Searching for more seagrass faunas



This fieldwork : Searching for more seagrass faunas



...and after this fieldwork?

New species from Banjung Ante



Plans for September



Paläontologische
Gesellschaft



universität
wien

**82. Jahrestagung der
Paläontologischen Gesellschaft**

Plans for September



Paläontologische
Gesellschaft



universität
wien

82. Jahrestagung der Paläontologischen Gesellschaft

TALK: Reconstructing the origin of the
Indo-Malayan marine biodiversity
hotspot – First glimpses from the fossil
record

Plans for September



Paläontologische
Gesellschaft



universität
wien

82. Jahrestagung der Paläontologischen Gesellschaft

TALK: Reconstructing the origin of the
Indo-Malayan marine biodiversity
hotspot – First glimpses from the fossil
record

POSTER: Molluscs from underwater
meadows - An Early Miocene seagrass
mollusc community from Java, Indonesia

Plans for September



Paläontologische
Gesellschaft



universität
wien

82. Jahrestagung der Paläontologischen Gesellschaft

TALK: Reconstructing the origin of the
Indo-Malayan marine biodiversity
hotspot – First glimpses from the fossil
record

POSTER: Molluscs from underwater
meadows - An Early Miocene seagrass
mollusc community from Java, Indonesia



Lethaia

AN INTERNATIONAL JOURNAL OF PALAEOBIOLOGY AND STRATIGRAPHY

The Quilon Limestone, Kerala Basin, India: an archive for
Miocene Indo-Pacific seagrass beds

MARKUS REUTER, WERNER E. PILLER, MATHIAS HARZHAUSER, ANDREAS KROH, FRED RÖGL AND
STJEPAN ĆORIĆ

Thank You for Your Attention!

References

- Beets, C., 1941. Eine jungmiocene Mollusken-Fauna von der Halbinsel Mangkalihat, Ost-Borneo (nebst Bemerkungen über andere Faunen von Ost-Borneo; die Leitfossilien-Frage). Verh. Geol. Mijnbouwk. Genoot. Ned. Kol., Geol. Ser., 13: 1-282.
- Beets, C., 1986. Molluscan fauna of the Lower Gelingseh beds s. str., Sangkulirang area, Kalimantan timur (East Borneo). Scripta Geol. 82: 1-82
- Green, E.P. and Short, F.T., 2003. World Atlas of Seagrasses, University of California Press.

