Japan Geoscience Union Meeting 2013

(May 19-24 2013 at Makuhari, Chiba, Japan)

©2013. Japan Geoscience Union. All Rights Reserved.

BPO02-01



時間:5月21日09:00-09:30

## Calcification mechanisms in foraminifera and proxy incorporation Calcification mechanisms in foraminifera and proxy incorporation

Bijma Jelle<sup>1\*</sup>, Nehrke Gernot<sup>1</sup>, Raitsch Markus<sup>1</sup>,  $F \cdot J - f \perp \nu \tau - F^2$ , Funcke Antje<sup>1</sup>,  $\tau \tau \tau \tau^3$  Jelle Bijma<sup>1\*</sup>, Gernot Nehrke<sup>1</sup>, Markus Raitsch<sup>1</sup>, Lennart Jan de Nooijer<sup>2</sup>, Antje Funcke<sup>1</sup>, Nina Keul<sup>3</sup>

<sup>1</sup> アルフレッドウェゲナー研究所, <sup>2</sup>NIOZ, <sup>3</sup>Lamont-Doherty Earth Observatory <sup>1</sup>AWI, <sup>2</sup>NIOZ, <sup>3</sup>Lamont-Doherty Earth Observatory

Calcifying organisms, such as pteropods, bivalves, corals and foraminifera provide a rich resource for pale-oceanographers and ?climatologists because their geochemical make-up (proxies) can be used to reconstruct past ocean history and evolution during and after natural carbon perturbations. However, it has been shown for all geochemical proxies that the main assumption of only one environmental variable controlling a target proxy is too simple. Empirical calibrations introduce a lot of uncertainty because the mechanisms of proxy incorporation are not well understood. The major problem is that the calcification mechanisms are still a black box. In this presentation I will review our current understanding of calcification and proxy incorporation in foraminifera.

キーワード: 石灰化 Keywords: calcification, foraminifera