

Geodynamics Seminar

第378回ジオダイナミクスセミナー

Alphabet phases and the discovery of phase H: A historical view

Dr. Tetsuo Irifune (Director & Professor, GRC)

主催: 愛媛大学地球深部ダイナミクス研究センター

日時: 3/7(金) 午後 4時30分～

場所: 総合研究棟 4F 会議室



Abstract

Based on a prediction by J. Tsuchiya (2013), Nishi et al. (2014) recently found a new dense hydrous magnesium silicate (DHMS), named as phase H, which is potentially important in transportation of water into deep lower mantle and thereby influences some physical properties and dynamics/structures of the deepest region of the mantle. High-pressure forms of DHMS are sometimes referred to as “alphabet phases”, as they are named in alphabetical order, such as phases A, B, C, etc. There have been some debates as to the actual presence and nomenclature of these phases, particularly those on phase D, another DHMS which is stable in the upper parts of the lower mantle. Here I review the history of synthesis and characterization of alphabet phases with some emphasis on the phase D issue that I myself was heavily involved in order to avoid possible future confusions/confrontations around phase H.

詳細は当センターホームページ: <http://www.ehime-u.ac.jp/~grc/>をご覧ください

問い合わせ先: 桑山 靖弘 (TEL:089-927-8408, e-mail: kuwayama@sci.ehime-u.ac.jp)