Comparative Study of Five Mesosiderites.

Akiko Tomaru[1], Keizo Yanai[2], Hirokazu Fujimaki[3]

[1] Sci.,tohoku Univ., [2] Dept. Civil and Environ., Faculty of Engin., Iwate Univ., [3] Inst. Min. Pet. Econ. Geol., Tohoku Univ.

Mesosiderites form one of the types of stony-iron meteorites,and they are composed of metal mixedin silicate.

In this study, we tryed to clarity the petrologic characteristics and mineral compositions.

Five polished thin sections,two Antarctic A-882023 and ALH-77219,American Estherville,Germany Hainholz and Chilean Vaca Muerta,are used for this study.

Although silicate part of each mesosiderite shows brecciation texture and similar chemical composition,theshape of crystal and mode of Metal-Silicate ratio isvarious.

Whilein this study, we comparated the silicate part with Kapoeta(howardite achondrite)and metal part with Sikhote-Alin(Iron meteorite).