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会場:コンベンションホール

時間: 5月25日17:15-18:45

火星起源隕石Zagamiに含まれるpyroxeneの逆累帯構造とガラス質包有物

Reverse zoning pyroxenes and glassy inclusions of Martian meteorite Zagami

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About 50 years ago, Zagami meteorite came from space ,and fell on Earth. The Zagami meteoriteis the shergottite ,a basalt rich in pigeonite,augite , and maskelyniteglass(shocked plagioclace) It is one of the SNC meteorites.,which are inferred to have come from Mars. The Zagami consists of series of increasingly evolved magmatic lithologies. The bulk of the rock is a basaltic lithology dominated by pigeonite (Fs28.7-54.3),augite(Fs19.5-35.0) and maskelynite (Ab42-53). Apporoximately 20 vol % of Zagami is basaltic lithology containing FeO-enriched pyroxene and late-stage melt pockets. The melt pockt is highly enriched in olivine-bearring intergrowths,mesostases,phosphates,Fe,Ti-oxides and sulfides.

Althoth today, many of characteristics of Zagami are revealed, there are still some unsolved problems about this study, we identified the sample by Scanning Electron Microscopy. Pigeonite, augite,maskelynite,phosphate,Fe-Ti oxide, sulfide, mesostases are found and analyzed. The analysis result was substantially good fit with precedence research. But in this study, two of interesting points come out.

One is that pyroxene show reverse zoning. Another one is that pyroxene have glassy inclusion. Further research about these points will needed.

キーワード:火星起源隕石, Zagami隕石, 逆累帯構造, ガラス質包有物

Keywords: Martian meteorite, Zagami, reverse zoning, glassy inclusion