## **Room: 202**

# Electron microscopic analyses and minor compositions of Akiyoshi-dai limestones: Comparative analyses of meteoritic elements

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#### 1. Introduction

Carbon-bearing minerals and chemical composition are compared with Akiyoshi limestones on surface and drilled samples and impact limestones from Sierra Madera impact crater Texas, U.S.A.

#### 2. Akiyoshi-dai limestone

Carbon-bearing limestones are found in Akiyoshi drilled samples (esp. 234m and 243m in depth) and Sierra Madera impact samples. Both samples contain significant amounts of iron-group and platinum-group elements.

### 3. Sierra Madera impact crater

Impact limestone from Sierra Madera impact crater shows shatter-cone texture with anomalous contents of meteoritic components of iron-and platinum-group elements. Red-layers contains more abundant of meteoritic components. However drilled samples of Akiyoshi-dai samples (234m and 243m in depth) contain several times higher meteoritic components than those in Sierra Madera impact crater.

#### 4. Summary

Akiyoshi limestones breccias contain anomalous meteoritic components of iron- and platinum-group elements than those of Sierra Madera impact crater, Texas, U.S.A. Akiyoshi-dai limestone cannot be explained by general hydrothermal events or volcanic intrusions.