

日時: 10月 21日(水)  
17時~

場所: 総合研究棟B棟 110 教室

# Introduction of Tsagaan Tsahir Uul orogenic gold deposit in Bayankhongor belt, Mongolia

発表者① 地球科学専攻惑星資源科学分野 1年 Dashbaatar Davaa-Ochir

The Tsagaan Tsahir Uul (TTU) gold deposit is located at the southeastern part of the Bayankhongor metallogenic zone, Mongolia. The geology of the TTU deposit consists of Proterozoic migmatized limestone and marble-bearing schists, Proterozoic granitoid and small dioritic stocks of Permian age. Gold mineralization in the TTU deposit is hosted migmatized schist and granite. Based on tectonic similarity of the deposit, it is proposed that the TTU gold deposit is the orogenic gold type deposit (Jargalan, 2002). Feature of the orogenic gold deposits are generally as follows: (1) quartz  $\pm$  carbonate veins, (2) low sulfide volume, (3) carbonate-sulfide  $\pm$  sericite  $\pm$  chlorite alteration assemblages in wall rocks, and (4) deformed and metamorphosed host rocks. However, previous studies paid little attention to the classification or the TTU deposit. The aim of the study is to compare the TTU gold deposit with some typical orogenic gold deposit. Because accurate deposit model will contribute future exploration of gold ore, then it is important to study the TTU gold deposit in detail. The presenter surveyed the TTU gold deposit two months ago and collected many samples. These samples are mainly composed of quartz veins and wall rocks. In hand specimen, two types of quartz veins can be distinguished: (1) mesothermal quartz veins, (2) epithermal quartz-carbonate veins. Wall rock is weakly altered to sericite, albite, chlorite, and pyrite. The presenter surveyed the TTU gold deposit two months ago and collected many samples. These samples are mainly composed of quartz veins and wall rocks. In hand specimen, three types of quartz veins can be distinguished: (1) metamorphic quartz veins, (2) mesothermal quartz veins, and (3) epithermal quartz veins. Wall rock is weakly altered to sericite, albite, chlorite, and pyrite.



Outcrop of the TTU



sample

## 次回のお知らせ

日時: 11月18日(水) 17時より

 発表者: 清水 公輔(惑星資源科学 M1)  
山岡 伸司(惑星資源科学 M1)

 座長: 忽滑谷 優理  
康 義英

## 連絡先

 福田 美保 (地球変遷科学 D1)  
mh\_fukud@geol.tsukuba.ac.jp

 上松 佐知子 (生命環境科学)  
agematsu@geol.tsukuba.ac.jp