

領域：地質學 指導教師：賴昱銘助理教授

題目：基隆嶼石英安山岩常壓下之實驗岩石學研究

An experimental petrological investigation of Chilungyu dacite at atmospheric pressure

計畫內容 (Project description)

基隆嶼過往基於岩石種類、定年結果與地理位置而被認為是基隆火山群的一部分。但由近年來新的定年及同位素結果推論，其岩漿可能與大屯火山群更接近。本研究針對基隆嶼石英安山岩樣本，進行常壓下的實驗岩石學研究，將針對其結晶順序與礦物化學變化，和前人已完成同屬基隆火山群的基隆山實驗相對比，討論兩者岩漿行為之異同。

Chilungyu has been considered as a part of the Chilung Volcano Group based on their dacitic rocks and similar erupted ages. Recently, some new results show their magmatism might be more close to the Tatun Volcano Group. The purpose of this study is to determine if the crystallization sequences and variations of mineral chemistry in the Chilungyu similar to Chilungshan by experimental petrology at atmospheric pressure.

背景條件 (Preferred background)

- 地球科學相關科系之在學學生
- 畢業後打算進修碩士學位者
- 具備耐心、細心、專心等信念
- 本研究需與外籍教師互動，需具備英語溝通能力
- Senior or junior college students from Earth sciences or related departments
- Who would like to continue a Master's program after graduation
- Enough patience, attentiveness, and concentration
- Good English capabilities and interpersonal communication skills