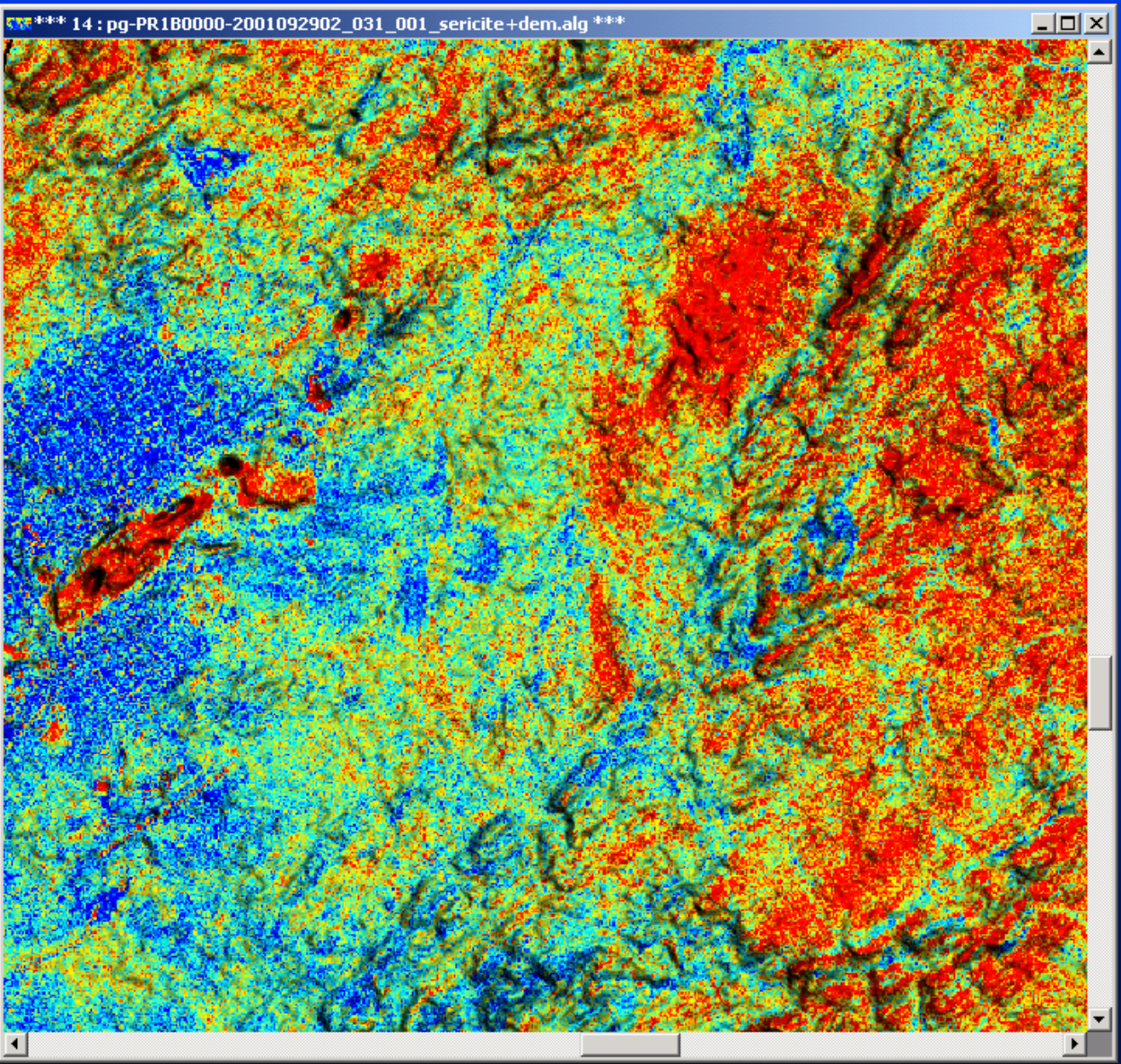
Broken Hill ASTER

542100, 6471300

559100, 6471300



ASTER SWIR imagery + DEM

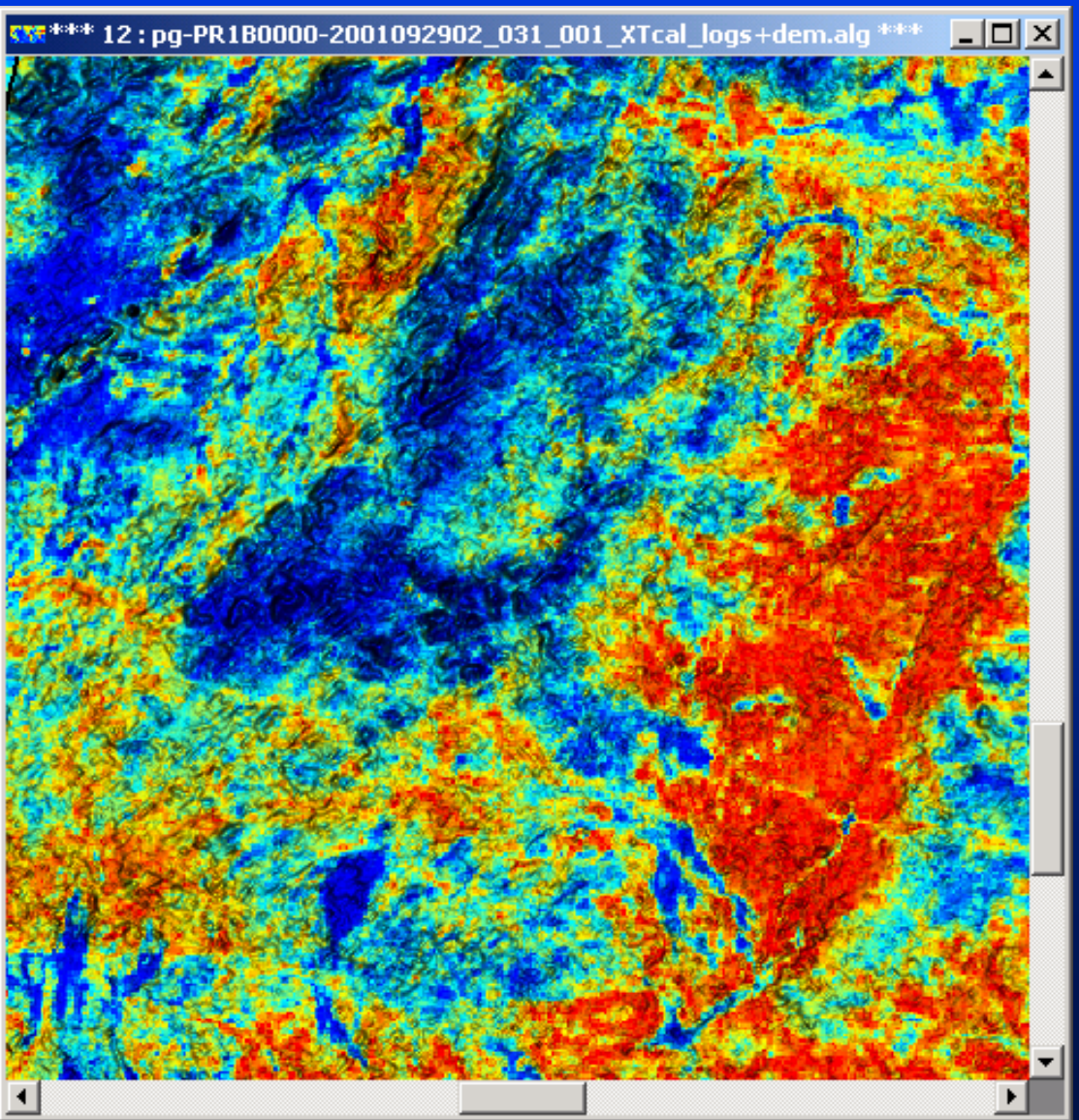
(b5 + b7) / b6

- Highlights sericite / AlOH content

Broken Hill ASTER

542000,
6471800

571400,
6471800



ASTER TIR imagery

b13 / b10

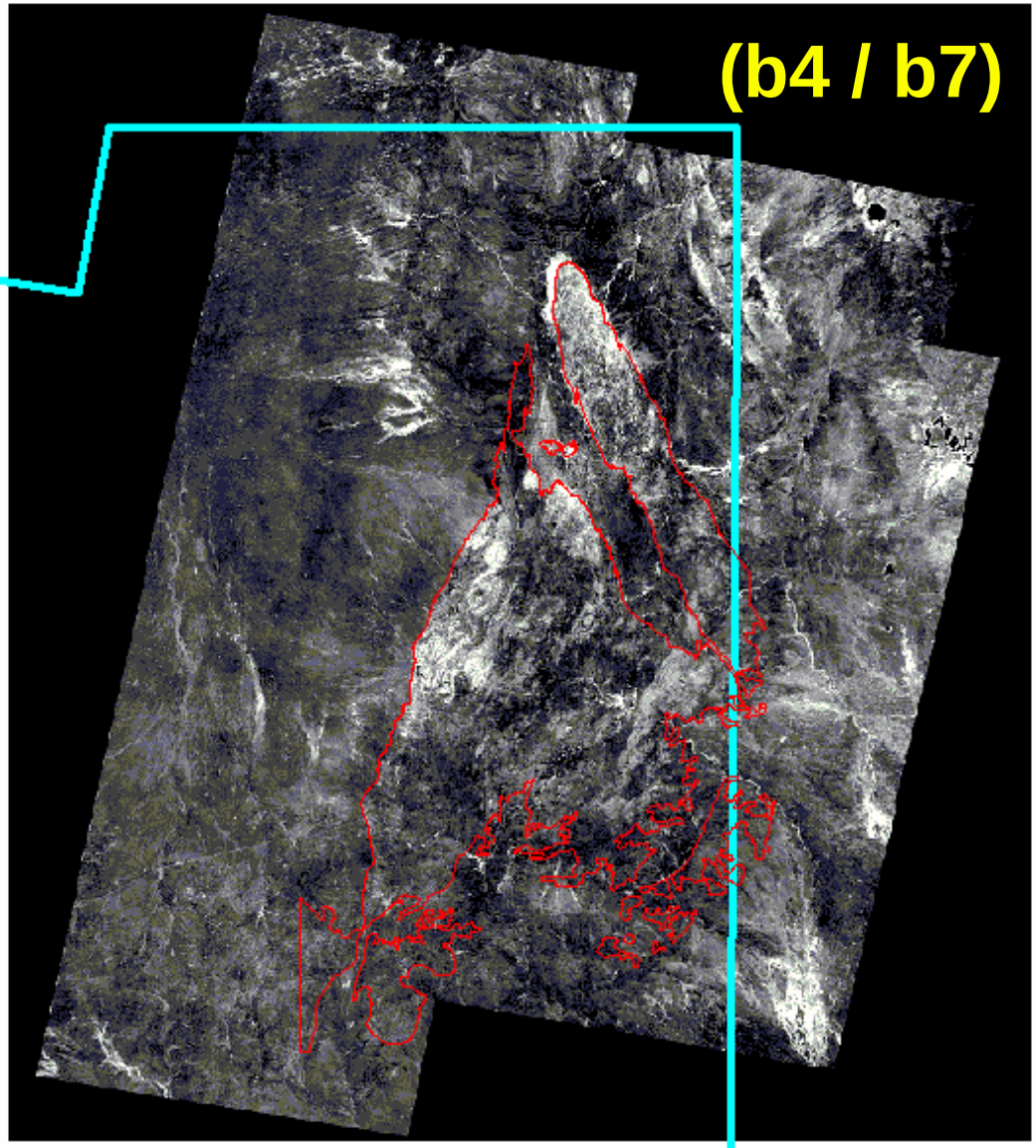
- Highlights quartz cover / regolith

Broken Hill ASTER

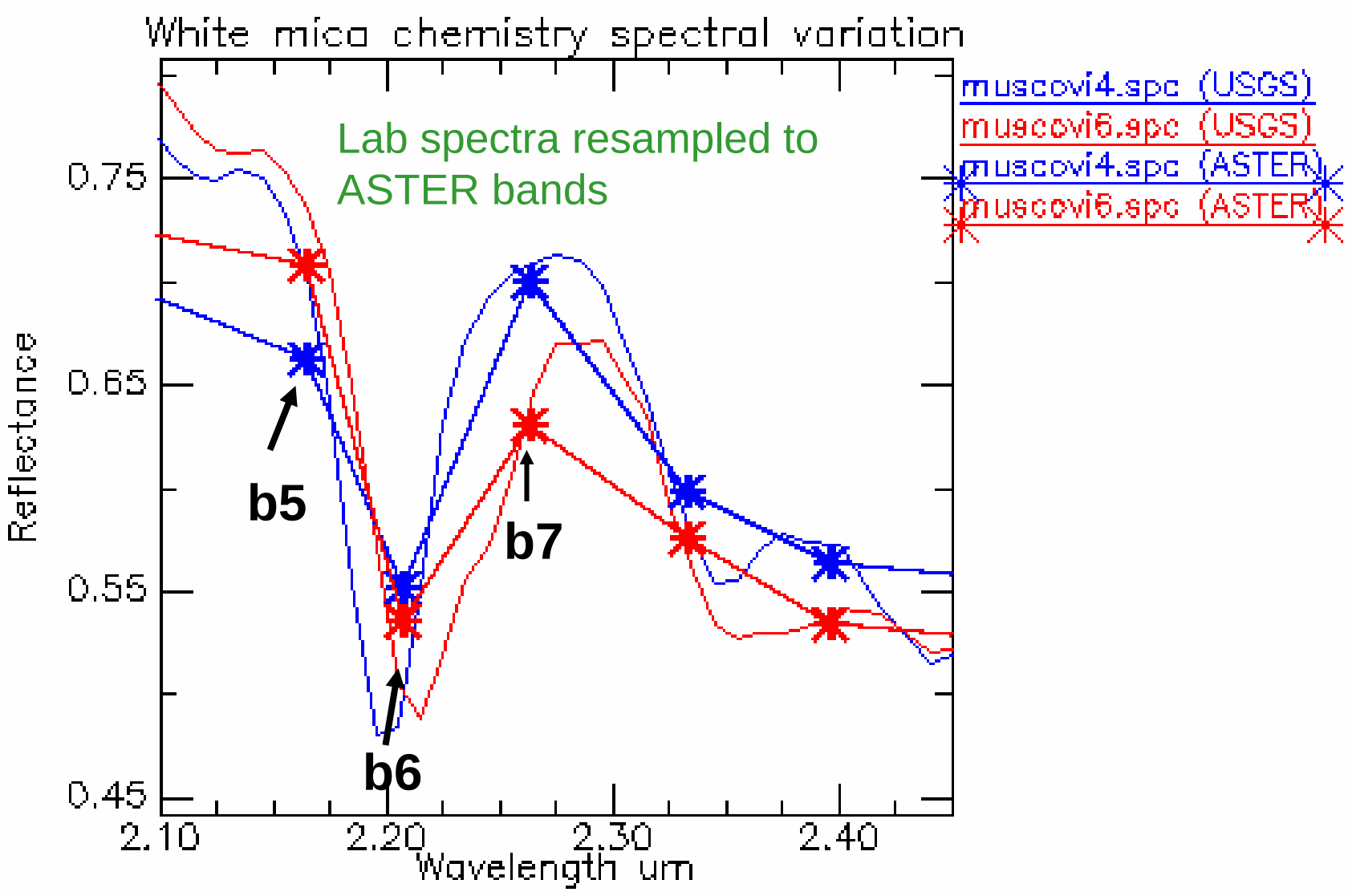
Mosaicing of ASTER imagery

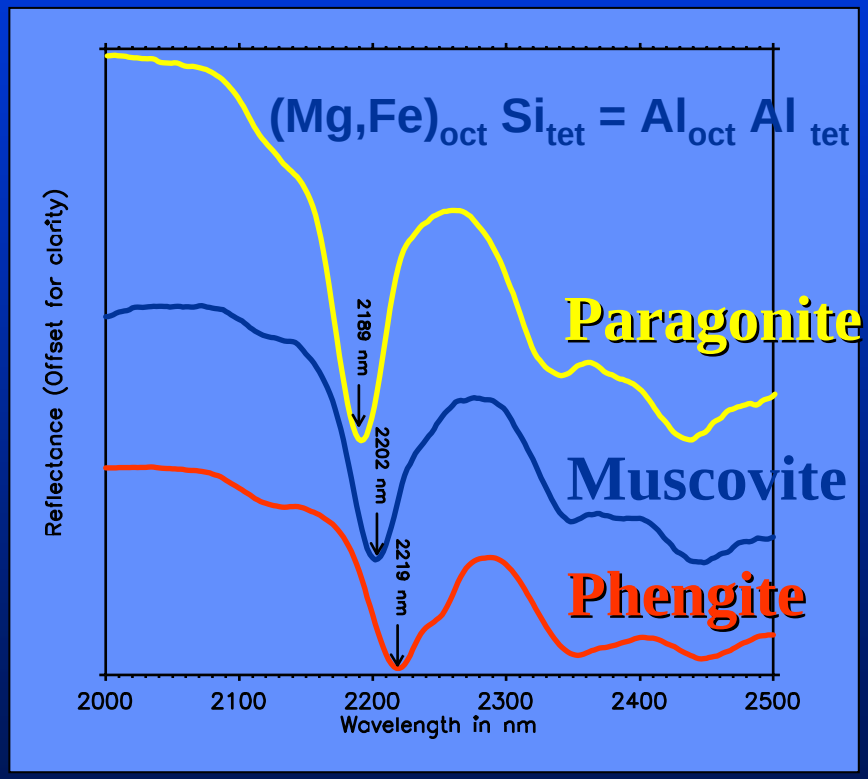
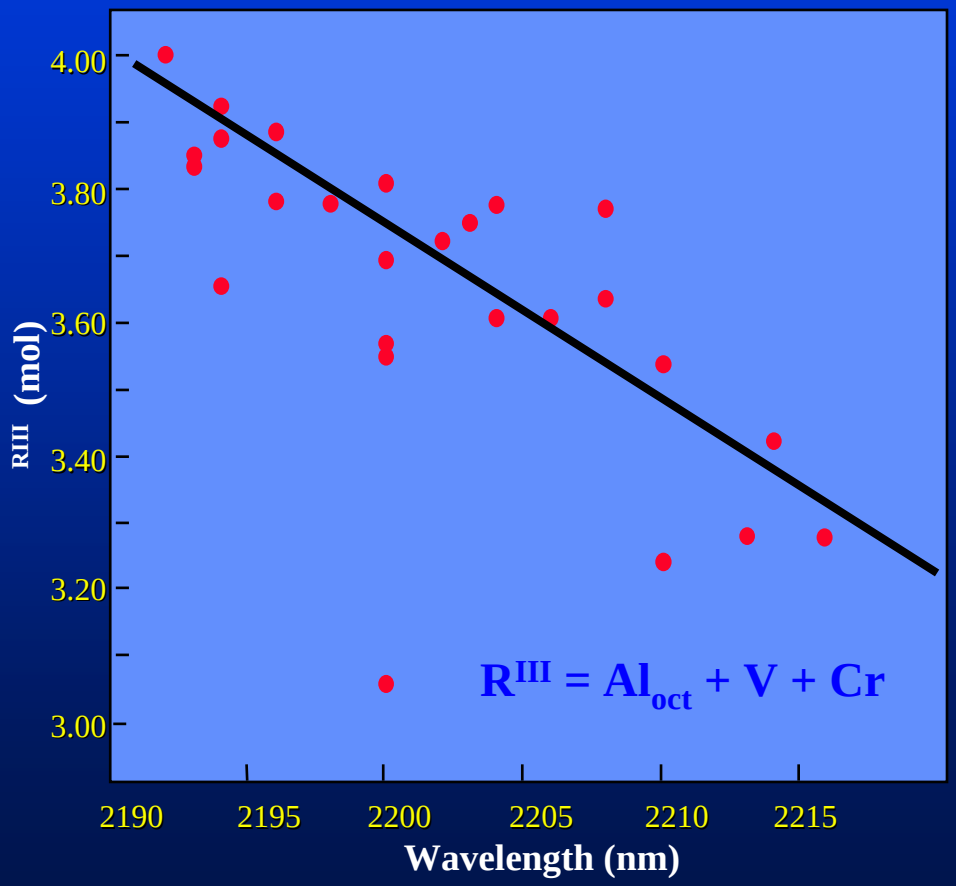
Issues :

- Sun angle variations (*ie* seasonal)
- Atmospheric conditions (*ie* H_2O)
- Cross Talk Effects



Potential AlOH discrimination from ASTER SWIR imagery : RGB B5/B6, B6/B7, B7/B5



Chemical Variations in Mica inferred from SWIR

- Tschermak substitution (Duke, 1994)
- Longer λ => less Al, more Si and divalent cations (Mg and Fe^{++})
- Decreased K content also associated with paragonite