

Schwarz - hp - 1960

Fig. 2

# Metamorphism in the Winchester-Hemet Area Riverside Co., California

### Legend

### I. Metamorphic zone

The zones are defined on the basis of mineral assemblages within the pelitic schists where the assemblage may be inferred to have been in equilibrium:

- 1 Muscovite Zone: muscovite - biotite - quartz - K-feldspar - oligoclase (-chloritoid)

2 Andalusite Zone: andalusite - biotite - K-feldspar - quartz - oligoclase (-cordierite)

3 Sillimanite Zone: sillimanite - biotite - K-feldspar - quartz - oligoclase (-cordierite)

Almandine Zone: almandine - sillimanite - biotite - K-feldspar - oligoclase - quartz

Muscovite is locally present in pelitic schists of all zones, though above zone I it is largely retrograde. For fuller description of metamorphic zones, see text.

## 2. Observed critical mineral

- Om Mineralogy observed in thin-section

m Mineralogy observed in outcrop (partially indicated)

Pelitic schists	Amphibolites ("A: ")	Calcareous quartzites ("C: ")
m muscovite	h hornblende (indicated where no other mafic phase occurs).	e epidote
a andalusite	cp clinopyroxene	cp diopside
s sillimanite	g pyrospite garnet	h amphibole
co cordierite		g ugrandite garnet
ch chlorite		w wollastonite
g pyrospite garnet		

- Location of muscovite samples used to determine minimum temperatures of last recrystallization.
- Location of chemically analyzed specimen of sub-unit fvB4 of the French Valley formation.

### 3. Igneous rock

- |     |                                                                             |
|-----|-----------------------------------------------------------------------------|
| Kia | Older foliated rocks, concordantly intruded: Klm, Kb, Kwm and, in part, Ksm |
| Kib | Younger unfoliated rocks, discordantly intruded: Ksm and Kdv                |

