

Quantitatively, the assemblage from 5610 feet differs from that at 5415 feet by having a marked reduction in the relative abundances of *Myrtaceidites* spp., *Cupanieidites* spp., and *Nothofagidites* spp. Among proteaceous pollen there is also a change in emphasis from mostly specimens of *P. pachypolus* at 5415 feet to mainly *P. grandis*-types at 5610 feet. Less general differences between the assemblages are given below.

SPECIES	5415 FEET	5610 FEET
<i>Intratropipollenites notabilis</i>	absent	sparse
<i>Malvacipollis diversus</i>	frequent	common
<i>Myrtaceidites tenuis</i>	very rare	frequent
<i>Proteacidites grandis</i>	rare	frequent
<i>Proteacidites pachypolus</i>	frequent	very rare
<i>Proteacidites plummelus</i>	sparse	rare
<i>Santalumidites cainozoicus</i>	frequent	very rare
<i>Spinizonocolpites prominatus</i>	absent	rare

The assemblage at 5610 feet contains specimens of *Clavastephanocolporites melosus*, known only from the *P. asperopolus* zone and *Proteacidites plummelus*, not known below this zone. Other spore-pollen species that have their first (oldest) or only occurrence in this sample include:

Anacolosidites acutullus
Anacolosidites luteoides
Banksiaeidites arcuatus
Ephedripites notensis
Ilexpollenites anguloclavatus
Liliacidites lanceolatus
Myrtaceidites parvus/mesonesus
Myrtaceidites tenuis
Proteacidites delicatus
Proteacidites kopiensis
Proteacidites lapis
Proteacidites latrobensis
Proteacidites pachypolus
Proteacidites tuberculiformis
Sapotaceoidapollenites rotundus
Tricolpites incisus
Tricolporites adelaidensis
Tricolporites sphaerica

Middle *Malvacipollis diversus* Zone - Assigned to this zone are the palynomorph assemblages from sidewall core 21 at 5825 feet and sidewall core 20 at 6075 feet. Preservation is fair and both assemblages contain microplankton as well as recycled Permian forms; recycled Cretaceous spores occurred in only the shallower core. The assemblages are placed in the Middle *M. diversus* zone because they (1) lack forms indicative of younger zones and (2) contain species not known to occur below the Middle ~~*N. asperus*~~ zone in the Bass Basin. The latter include:
~~*N. asperus*~~
M. diversus

INTERPRETATIVE