

Horizon C

The Upper Cretaceous section has no strong or continuous reflections, so the base of this section was mapped, corresponding to the base of the Sherbrook Group. Except in the Whelk area, this is also the top of the Otway Group. The reflection character varies widely, being easiest to follow in those areas where there is an obvious angular unconformity, for example, on line HO-24. The reflection quality was good to poor on the new lines, and varied from fair to unusable on the reprocessed lines. In particular, line ER-39 was unusable at this level, apparently due to lack of penetration.

The automatically picked sorted segment displays were useful in picking this horizon, as they enabled events to be readily classified as primaries or multiples on the basis of velocity. In some cases events appeared on the segment displays which were almost completely obscured on the records.

The velocities varied widely in reliability with reflection quality. As the mapped horizon was mostly not a strong event, in most cases the velocity was interpolated between events above and below. Interval velocities were computed prior to picking the records, and were used as a pointer in separating Upper from Lower Cretaceous section, using a dividing line of 14,000 ft/second. This had to be used with considerable caution as the probable error in interval velocities can be very high, particularly if the interval is small or if a non-primary event is selected in error. The velocities were used in the same way as for Horizon B, but as the contour interval was 500 feet