



Fig. 4. Large-scale controls on climate in the Paci@c Northwest and vegetational response at Carp Lake, Oregon (this paper), and Clear Lake, California (Adam, 1988). Insolation values were calculated using the routines of Berger (1978). Oxygen isotope data are the stacked and smoothed SPECMAP data (Imbrie et al., 1984). CO₂ concentrations are those measured in the Vostok ice core (Barnola et al., 1987). Sea-surface temperatures are winter temperatures inferred from fossil data by Morley et al. (1987) from a core from the northern Paci@c Ocean. The ratios of the sum of *Pseudotsuga*=*Larix*, *Quercus*, and Cupressaceae pollen percentages to *Picea* pollen percentages (Pse C Que C Cup=Pic) and of total arboreal to total nonarboreal pollen (AP=NAP) provide an indication of vegetation type and openness at Carp Lake. *Quercus* percentages at Clear Lake are an indication of thermophilic vegetation (Adam, 1988).

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