

Figure 8.20. Solid state ^{13}C NMR spectra of the high molecular weight (HMW) fraction (>1000 Da) of DOM isolated from surface (10 m) and interior (750 m) ocean water from the Gulf of Mexico (from Dr R. Benner, unpublished). Observed shifts indicate large concentrations of carbohydrates (70–110 ppm) that decrease with depth, whereas very little aromatic carbon is observed. Most of the uncharacterized fraction in HMW DOM consists of alkyl carbon (0–45 ppm) at a 2:1 atomic basis with carboxyl carbon.

