



Fig. 39.3. Tidal and fortnightly evolution of flow, stratification and mixing in the Hudson River. Contours as function of semidiurnal tidal phase  $\Phi_{SD}$  and height above bottom  $z$ , April 8–10, 1995 (a–d), neap tide, and April 13–14, 1995, (e–h), spring tide. Streamwise velocity (a, e), salinity (b, f), Richardson number (c, g), and turbulent vertical salt flux (d, h).