



Fig. 39.6. Observed and simulated turbulent mixing in the Hudson River on Oct. 19, 1995, neap tide. Contours as function of semidiurnal tidal phase  $\Phi_{SD}$  and height above bottom  $z$ . (a) Observed streamwise velocity (extrapolated to surface and bottom), (b) observed salinity (extrapolated to surface and bottom), (c) observed and (d) simulated viscous dissipation rate, (e) observed ( $l_{th}$ ) and (f) simulated turbulent length scale ( $0.46 l$ ). Wherever simulated variables attain minimum values allowable in the model, they are not contoured (white areas).