



Fig. 15. Root-mean-square error forecast for the PE field forecast of Sep. 18 (Fig. 12a). Panel (a) shows surface errors, Panel (b) level 10 errors (from 30 m over the Strait to 140 m off the Ionian slope).

covariance between the surface temperature at (36.53°N, 13.40°E) and the other state variables on Sept. 15 is shown. A row of the covariance matrix is thus considered. Looking at the tracer covariances, even though only the dominant 289 PE singular vectors are used, the initial horizontal “Mexican hat” and vertical EOF structures (Section 3.1.1) are well represented. The corresponding velocity cross-covariances are shown by the ψ , \hat{u} and \hat{v} fields. Measuring T at (36.53°N, 13.40°E) on Sept. 15 would