

Fig. 7.25. The application of the "process oriented" approach to seismic and gravity anomaly data at the East Coast, U.S. rifted margin. In this approach, sediments in a rift basin are progressively backstripped through time and the gravity anomalies due to the combined effects of rifting and sedimentation are computed for different assumed values of  $T_e$ . By comparing observed and calculated gravity anomalies it is possible to constrain  $T_e$  and, in some cases, its spatial and temporal variations. (a) observed (black dots) and calculated gravity anomalies. (b) crustal structure deduced from backstripping and gravity modelling. Reproduced from Figs. 6 and 7 of Watts and Marr (1995).