

**Table 8.7** General features of deeper-marine siliciclastic facies

*Deposition:* takes place on submarine slopes, submarine fans and in basins of many types, particularly by turbidity currents, debris flows, contour currents and deposition from suspension.

*Lithologies:* sandstones (often greywacke in composition) and mudrocks; also conglomerates.

*Texture:* not diagnostic; sandstones often matrix-rich; conglomerates mostly matrix-supported and of debris flow origin.

*Structures:* in sandstones of turbidity current origin: graded beds (interbedded with hemipelagic mudrocks) which may show 'Bouma' sequence of structures (Fig. 8.6); sole marks common, channels perhaps large-scale, also slump and dewatering structures. Some sandstones may be massive. Mudrocks may be finely laminated.

*Fossils:* mudrocks chiefly contain pelagic fossils; interbedded sandstones may contain derived shallow water fossils.

*Palaeocurrents:* variable, may be downslope or along basin axis.

*Facies sequences:* turbidite successions may show upwards coarsening and thickening of sandstone beds, or upwards fining and thinning.