

| Predictor                                   | Unit               | Predictor used?         |         |                   |                        |
|---|--------------------|-------------------------|---------|-------------------|------------------------|
|   |                    | Mud, sand, gravel, rock | POC, TN | D <sub>50</sub> s | Porosity, permeability |
| Maximum and mean wave orbital velocity      | m s <sup>-1</sup>  | Y                       | Y       | –                 | –                      |
| Max. and mean depth-averaged tidal velocity | m s <sup>-1</sup>  | Y                       | Y       | –                 | –                      |
| Bathymetry                                  | m                  | Y                       | Y       | –                 | –                      |
| Standard deviation of residual topography   | m                  | Y                       | Y       | –                 | –                      |
| Standard deviation of slope                 | °                  | Y                       | Y       | –                 | –                      |
| Distance from coast                         | km                 | Y                       | Y       | –                 | –                      |
| Mean annual salinity                        | -                  | Y                       | Y       | –                 | –                      |
| Mean annual chlorophyll                     | mg m <sup>-3</sup> | Y                       | Y       | –                 | –                      |
| Mud percentage                              | %                  | –                       | Y       | Y                 | –                      |
| Sand percentage                             | %                  | –                       | –       | Y                 | –                      |
| Gravel percentage                           | %                  | –                       | –       | Y                 | –                      |
| Total D <sub>50</sub>                       | %                  | –                       | –       | –                 | Y                      |