

### **C5.3 Inter-tidal habitat evolution**

Inter-tidal habitat evolution was mapped as part of the Solent Dynamic Coast Project (SDCP) (2008) to indicate existing mudflat and saltmarsh development over the next 100 years (see Figures below). The focus was on inter-tidal mudflat and saltmarsh habitats as these form the largest expanse of coastal habitats across the north Solent that are immediately under threat from climate change, sea level rise and coastal management decisions. Topographic and tidal elevation data were used to model their evolution under a 6mm per annum sea level rise (based on the Defra sea level rise guidance prior to 2006). This information is used in the literature review (Section C1) and the Appropriate Assessment sections of the SMP.