

**Table 2: Summary of data for the intertidal and sub-tidal cores from the Severn Estuary**

	Sub-tidal laminated sediment					Salt marsh	
	NPD3	NPD4	NPD7	NPD8	NPD10	PET 1	PET 2
Core collected	Nov 2002	Nov 2002	Nov 2002	Nov 2002	Nov 2002	Jul 2001	Oct 2003
Core location	Bottom of the N Deep	Bottom of the N Deep	Flank of the N Deep	Flank of the N Deep	Flank of the N Deep	Peterstone Upper marsh	Peterstone Upper marsh
Water depth (m) to sediment (at lowest astronomical tide)	10	11	8.5	4.5	6	na	na
Core length (m)	0.53	0.72	1.12	1.15	0.44	0.40	0.45
Depth to Dec 1981 storm layer	29-30	36-38	24-26	9-10	28-30	No data	No data
Depth of geochemical step	30	35	23	8	29	Not seen	Not seen
Sediment accumulation above the 1982 storm layer ( $\pm 1$ cm)	29	35	23	9	28	No data	No data
Depth where $^{137}\text{Cs}$ goes to zero	Not seen	Not seen	26	11	35	Not seen	Not seen
Depth of first environmental appearance of OBT in 1982	No data-	No data	24	10	29	27	No data
SAR based on accumulation since 1982 storm layer position cm/y	1.4	1.7	1.1	0.4	1.4	Effect not seen	Effect not seen
SAR based on $^{210}\text{Pb}$ (cm/y)	1.3	No data	1.1	0.4	1.3	No data	No data
SAR based on $^3\text{H}$	?	?	0.9.	0.5	1.2	1.5	2.5
SAR based on $^{137}\text{Cs}$	?	?	?	?	?	1.25	
Minimum estimated eroded sediment (years equivalent) based on $^{210}\text{Pb}_{\text{xs}}$ profile	$\geq 35$	Not clear	$\geq 25$	$\geq 10$	$\geq 25$	No evidence	No evidence