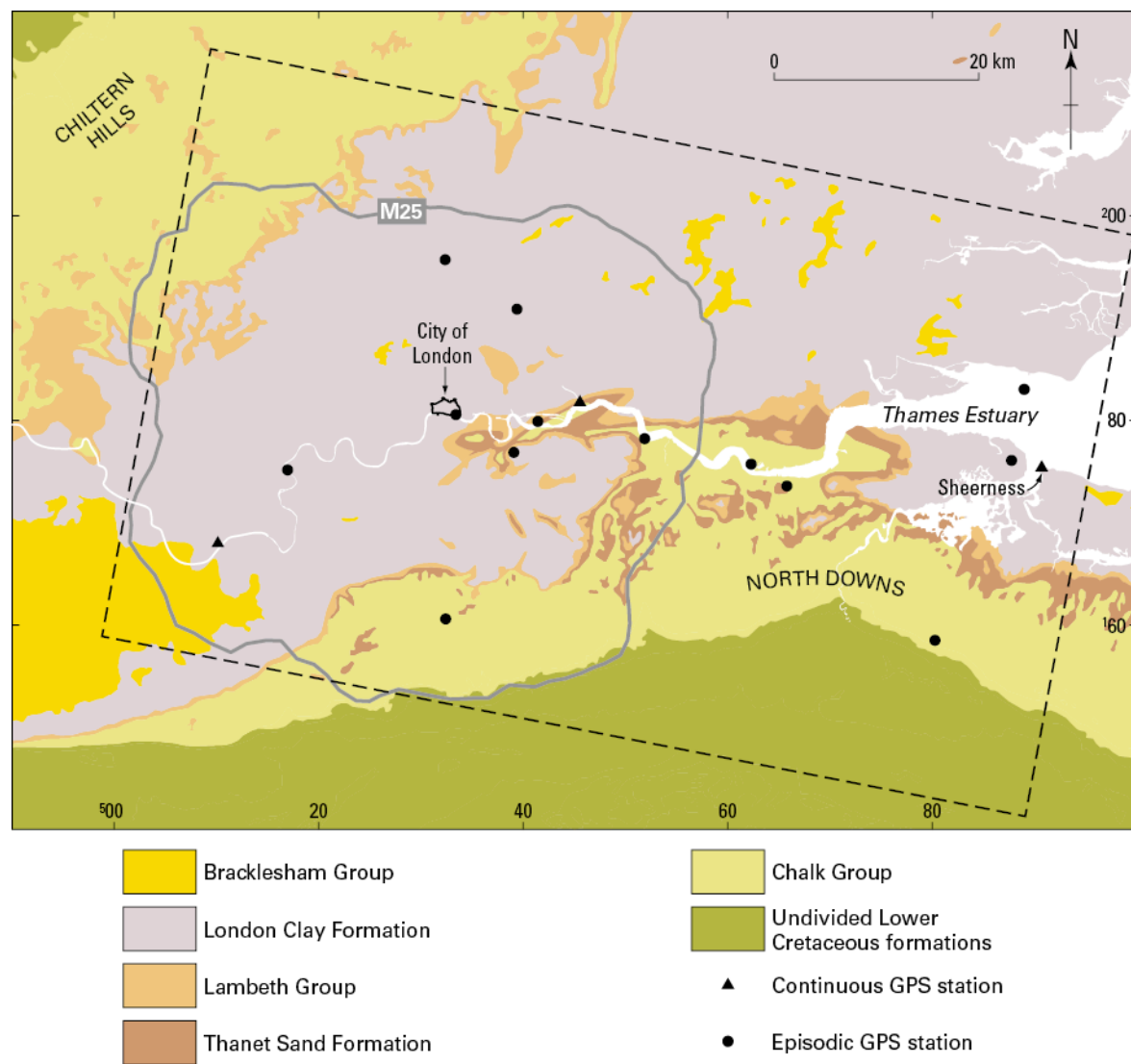


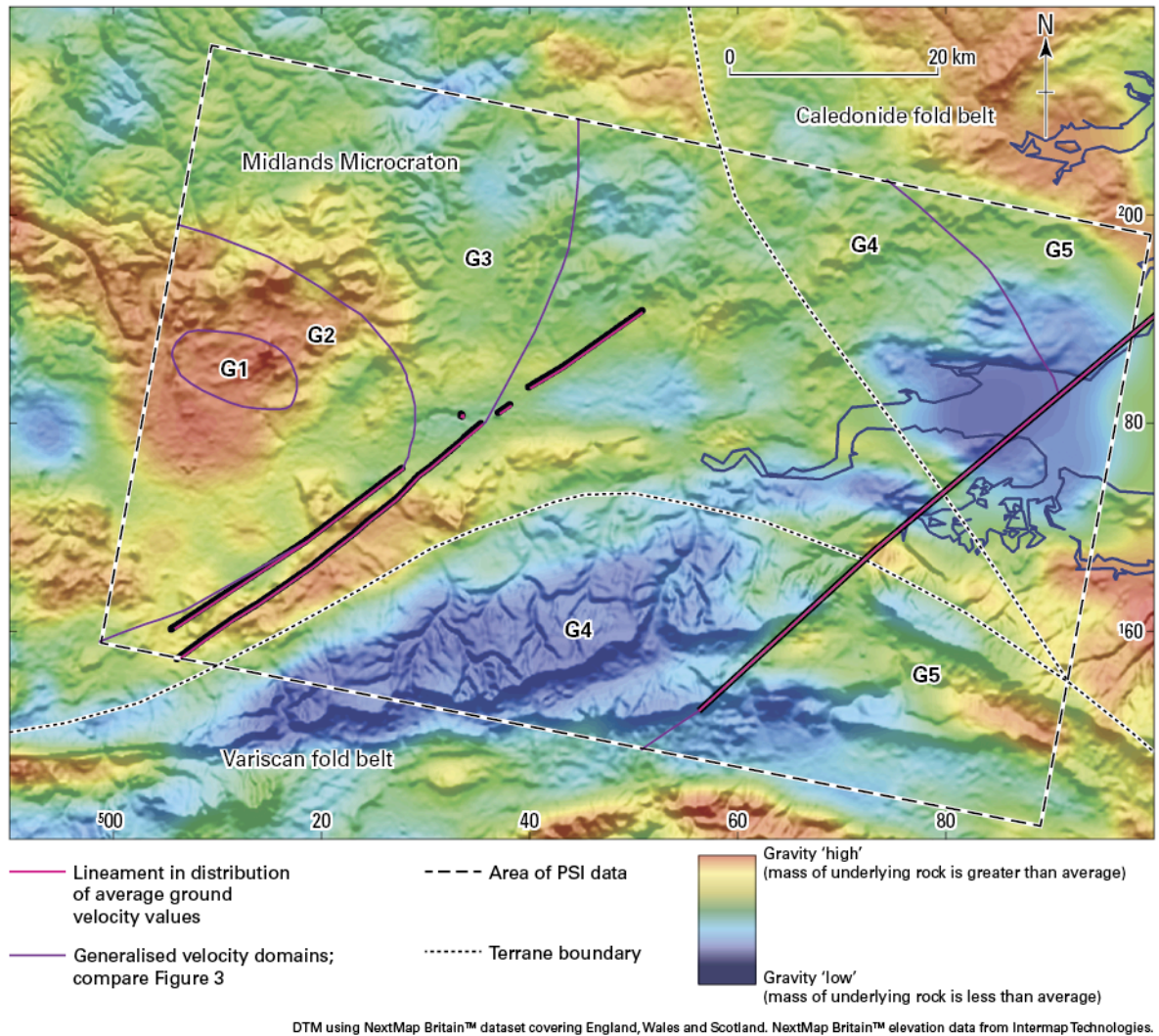
London land levels: Figures with captions

Figure 1: Location of study area with bedrock geology



Position of modern London is indicated by the ancient City of London and by the M25 orbital motorway. Dashed line marks the extent of the Permanent Scatterer Interferometry (PSI) data. For details of the GPS stations, see Bingley et al. (2007, 2008).

Figure 2: Generalised vertical ground velocity domains, gravity field and basement terranes



Bouguer gravity field stripped to base of Mesozoic succession (Aldiss et al., 2006) and draped on shaded relief digital terrain model. Range of values in gravity data is from approximately 0 to -30 mGal. G1 to G5 are generalised regional vertical ground velocity domains referred to in Section 6.3.

Figure 3A: Point plot of land level change determinations from Persistent Scatterer Interferometry (PSI) data

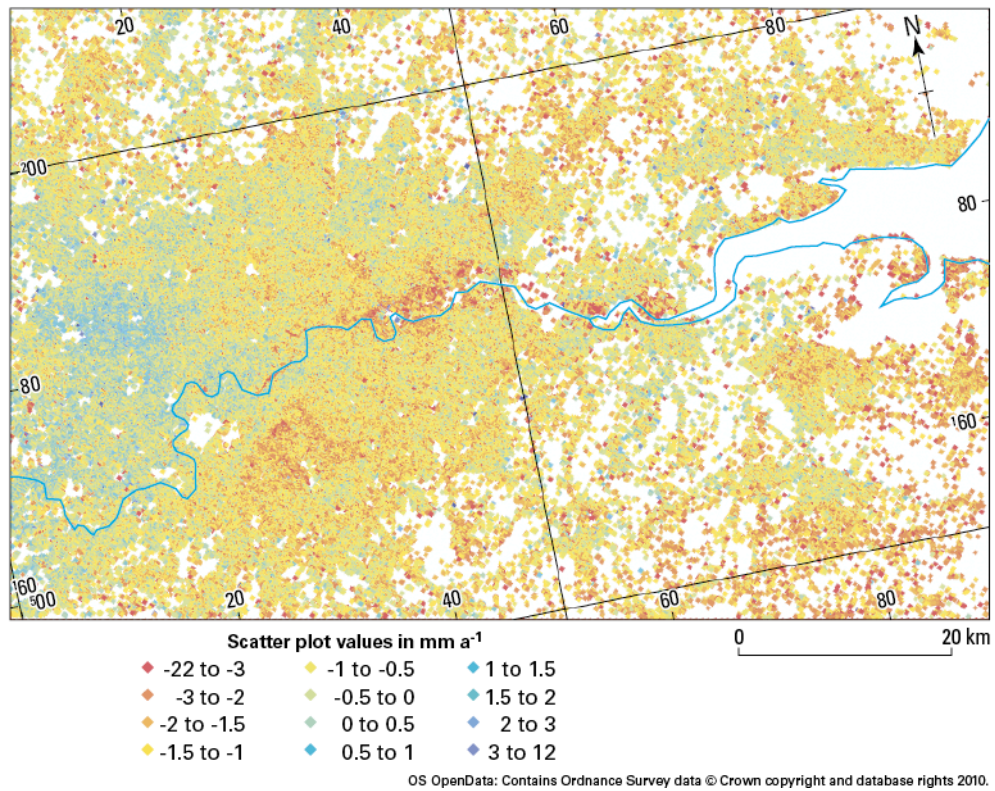


Figure 3B: Point plot of land level change determinations with domain boundaries and lineaments

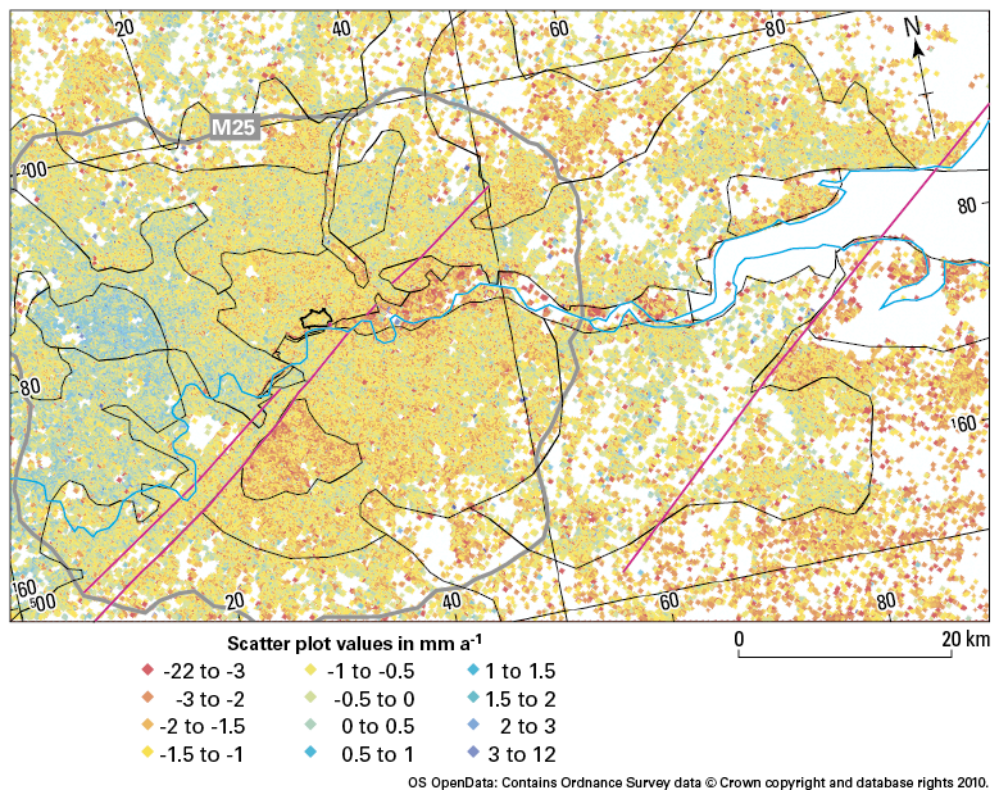
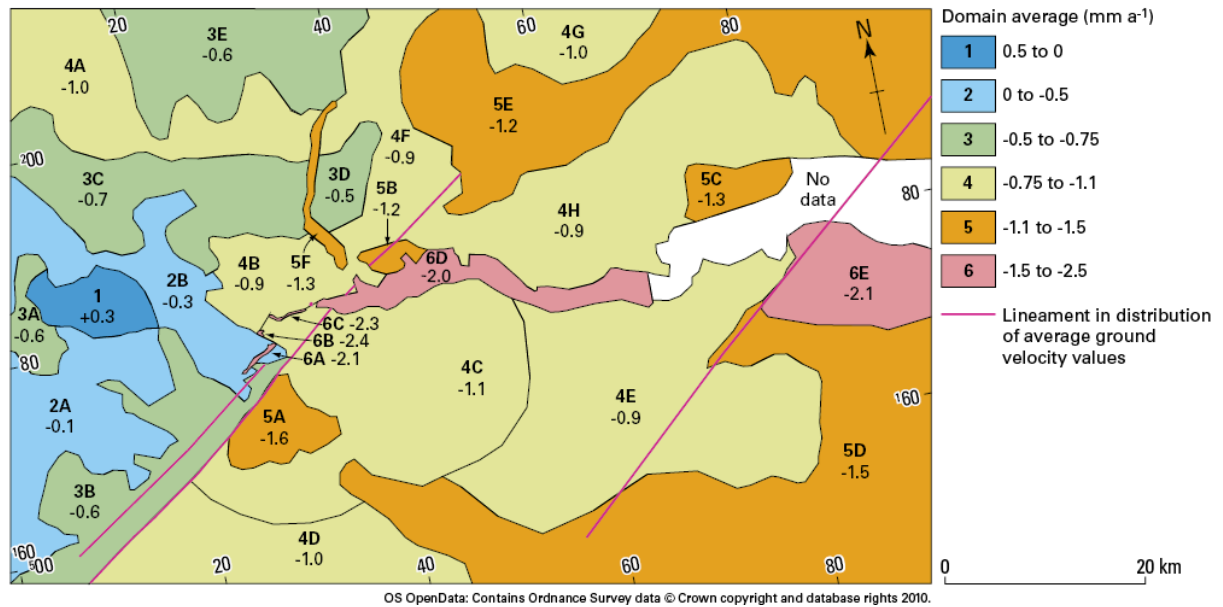
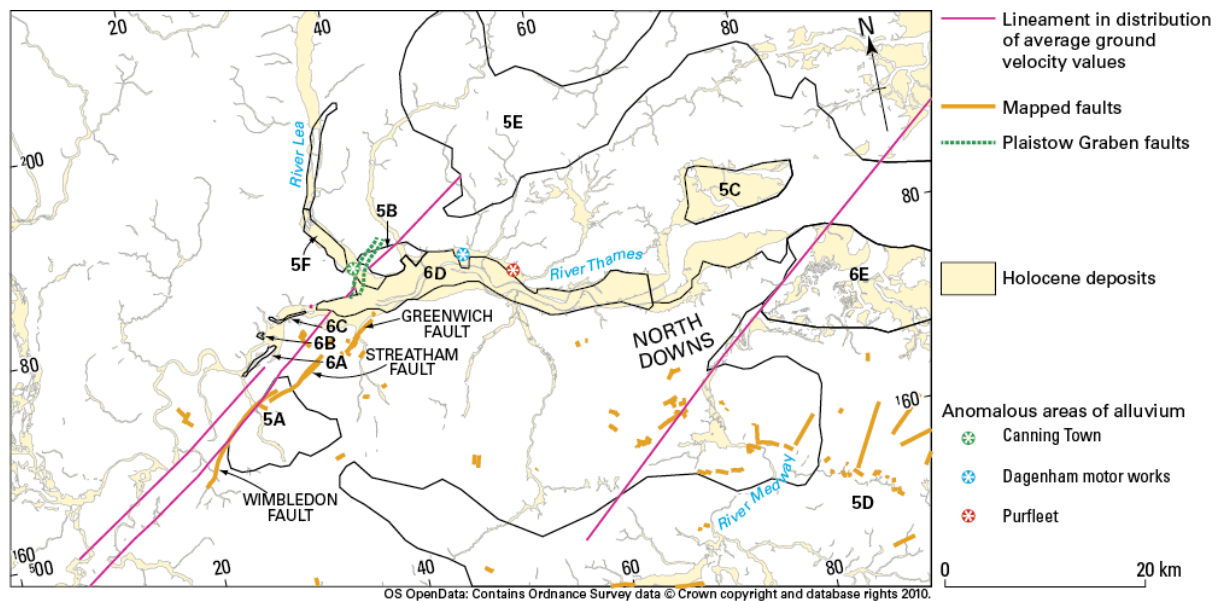


Figure 4: Average vertical ground velocity domains



Domain labels indicate rank of average vertical ground velocity with a letter to identify each domain. Each label is accompanied by the average value of vertical ground velocity for that domain. Compare with Figure 3 and Table 1.

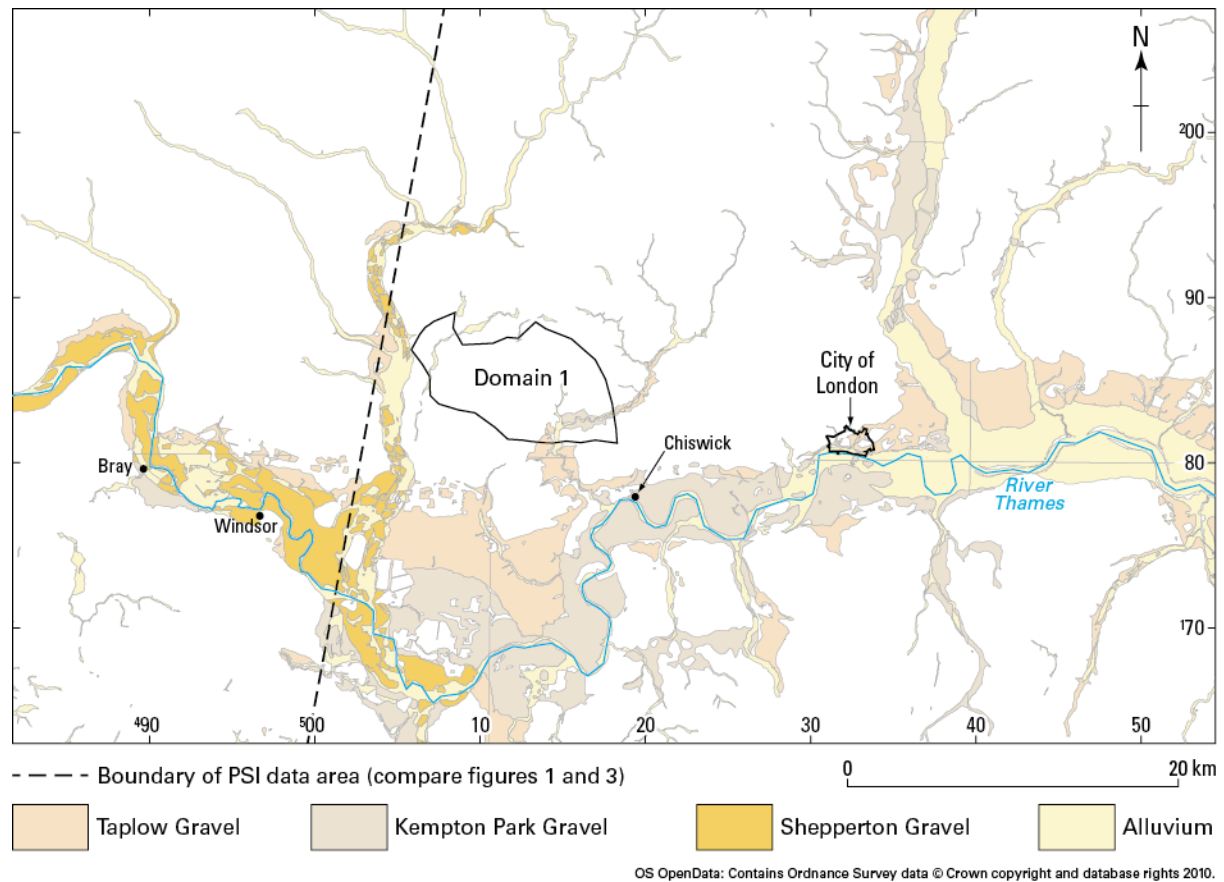
Figure 5: Lineaments, faults and Holocene deposits



Position of Plaistow Graben taken from Mortimore et al. (2011).

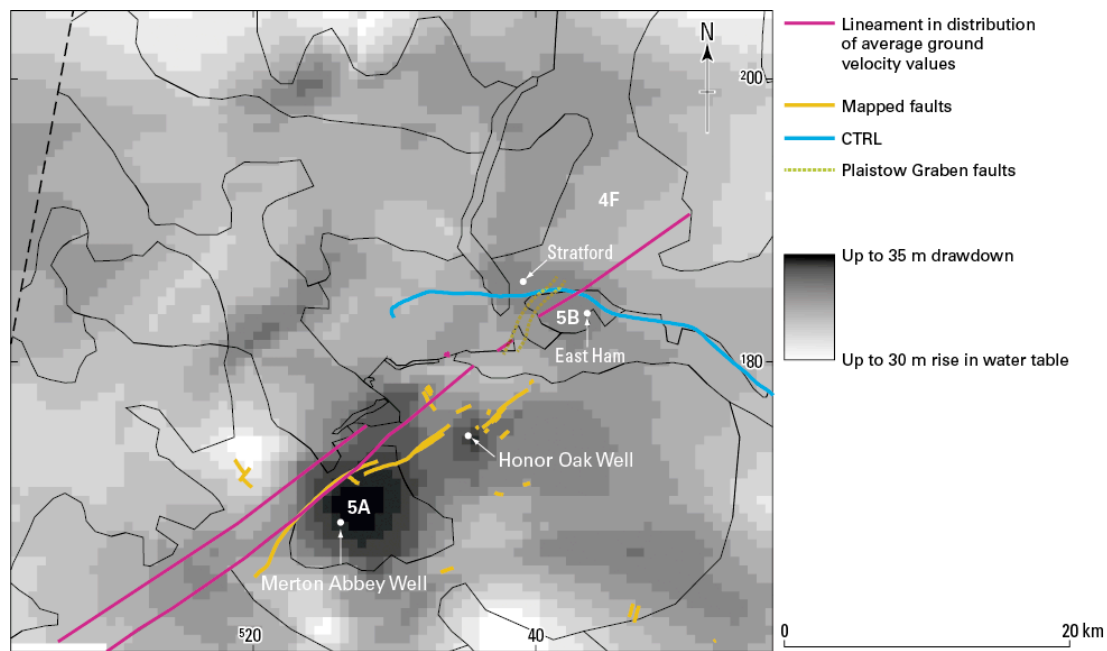
Geological map information taken from British Geological Survey DiGMapGB-50 (Copyright NERC).

Figure 6: Path of the River Thames around Domain 1



Domain 1 is as in Figure 4; the adjacent section of the River Thames has apparently been deflected southwards between Windsor and Chiswick. Note that the area of apparent local uplift represented by Domain 1 may have varied through time. City of London as in Figure 1. Geological map information taken from British Geological Survey DiGMapGB-50 (Copyright NERC).

Figure 7: Change in groundwater level compared with vertical ground velocity domains



Change in groundwater level from January 1997 to January 2006, compared with vertical ground velocity during March 1997 to December 2005. Position of two major public water supply wells indicated. Domains and lineaments as Figures 4 and 6. CTRL is the Channel Tunnel Rail Link (latterly known as 'High Speed 1'), which terminates in north central London.