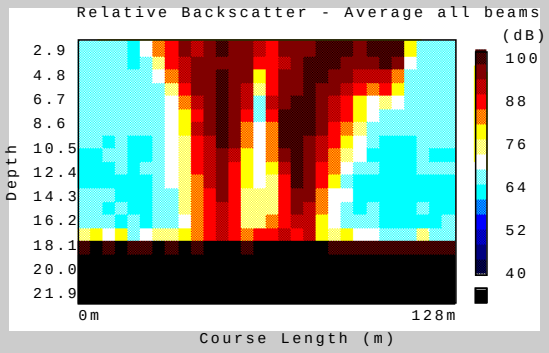
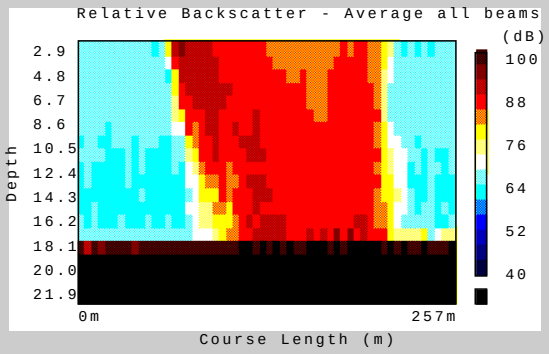
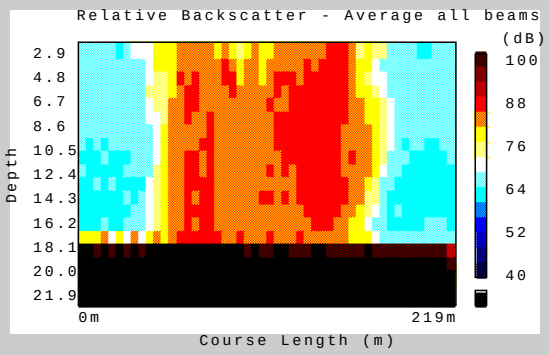


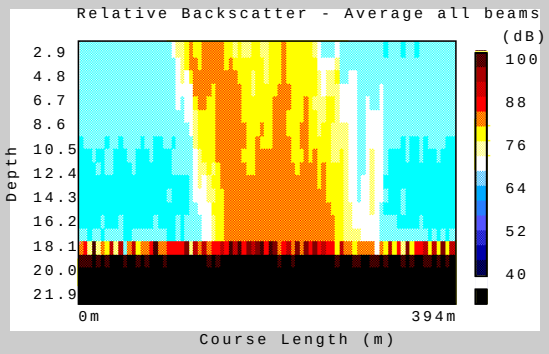
Transect 1
80m astern



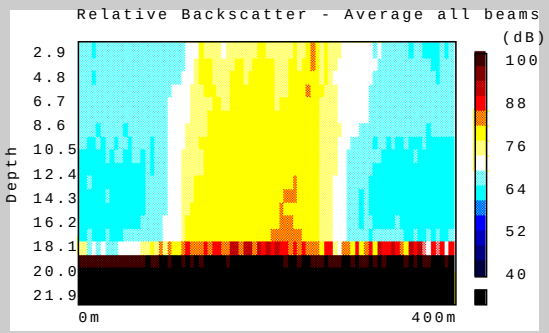
Transect 2
205m astern



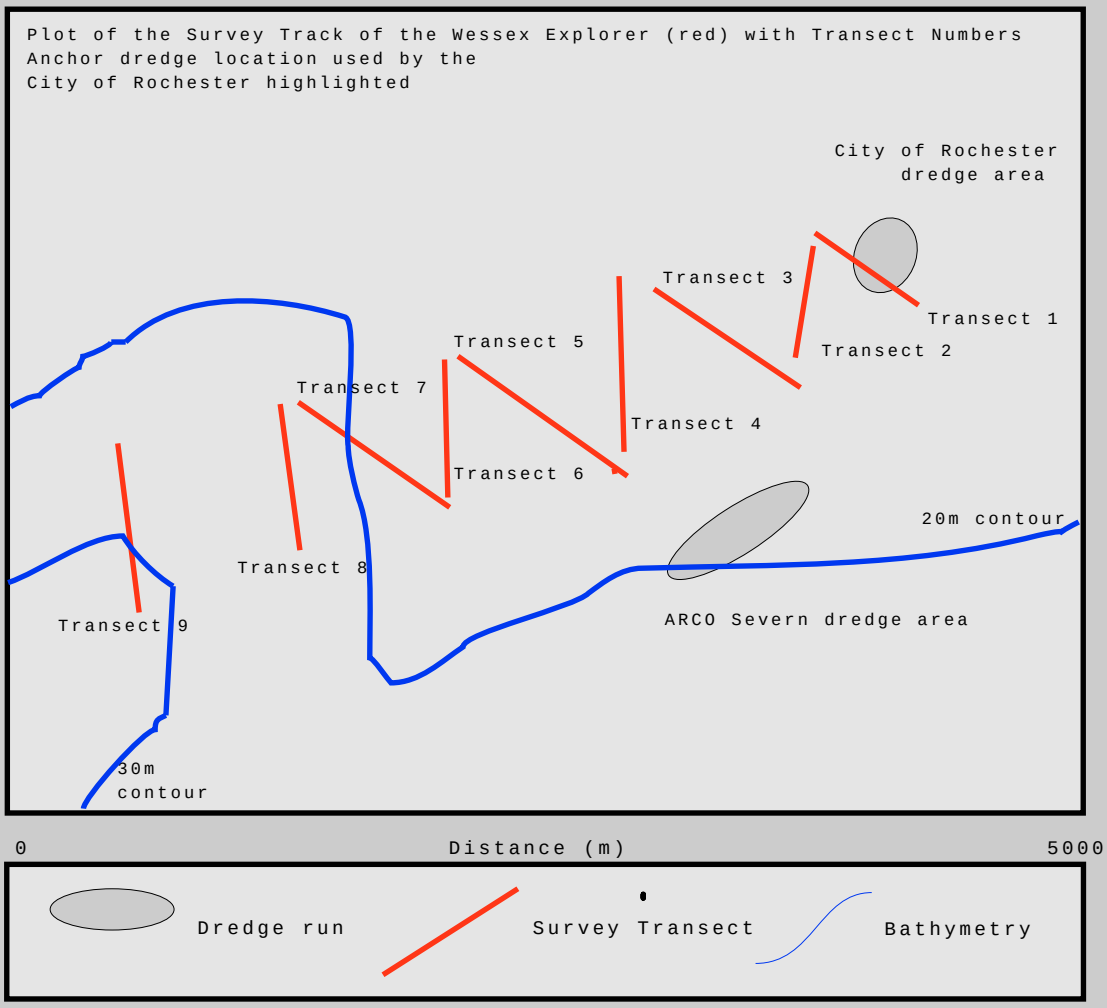
Transect 3
365m astern

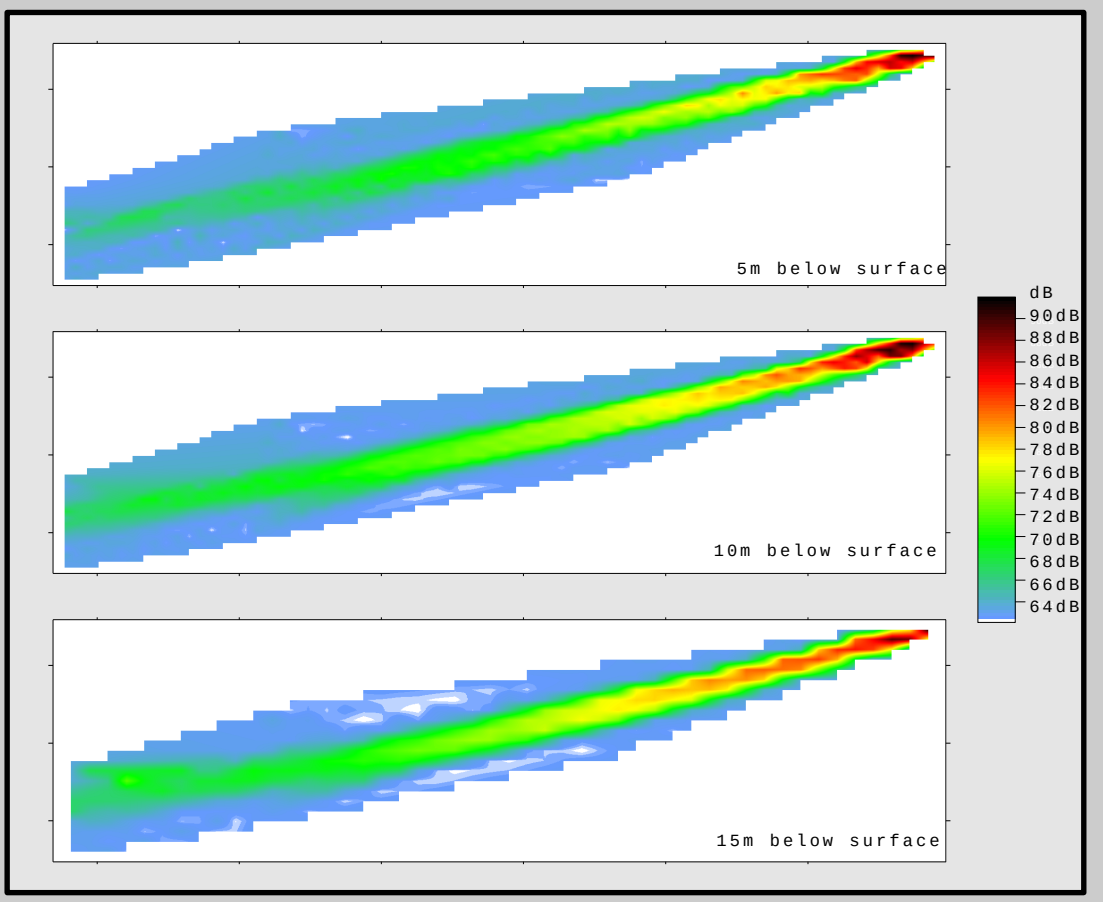


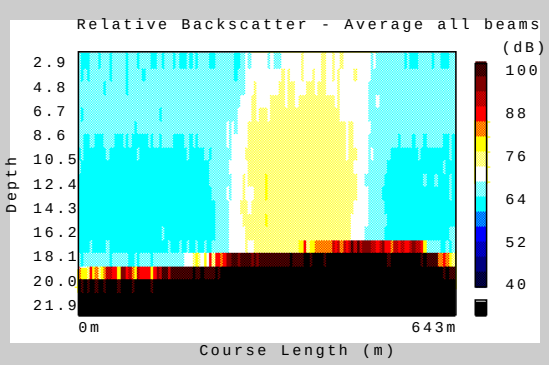
Transect 4
590m astern



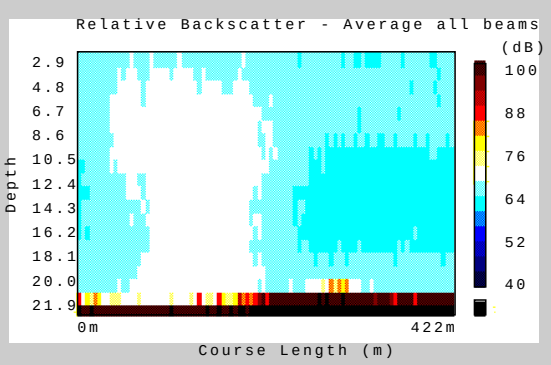
Transect 5
880m astern



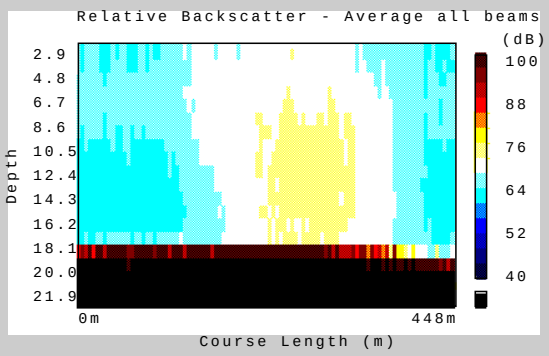




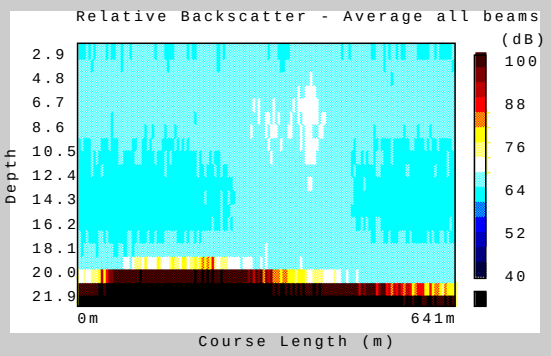
Transect 6
1540m astern



Transect 8
2640m astern



Transect 7
1835m astern



Transect 9
3335m astern

Composite Plot of Plume Monitoring Campaign carried out on the 21st August 1995, English Channel. The Acoustic Backscatter Transects were obtained using an RDI 1200kHz BroadBand Acoustic Doppler Current Profiler.

This series of 9 Transects was recorded across the plume emanating from the anchored TSHD City of Rochester. Simultaneous current measurements analysed at the start end of the transect indicate a mean surface flow of 53cm/s reducing to 35cm/s and mean bottom flow of 35cm/s reducing to 23cm/s in direction 250 degrees.

Sampling data indicate that at less than 100m from the dredger,total suspended solids concentrations ranged 480-611mg/l in the lower water column and 80-340mg/l in the upper water column.

Most of the sand had settled out reaching background levels within 250m. In 20m of water with 40cm/s current this implies a minimum settling velocity of 32mm/s.

Similarly the silt content of the samples reached background levels within 480m. This implies a minimum settling veloci ty of 17mm/s

Although the sample data indicated background levels for total solids

Figure 4.2.2.9