

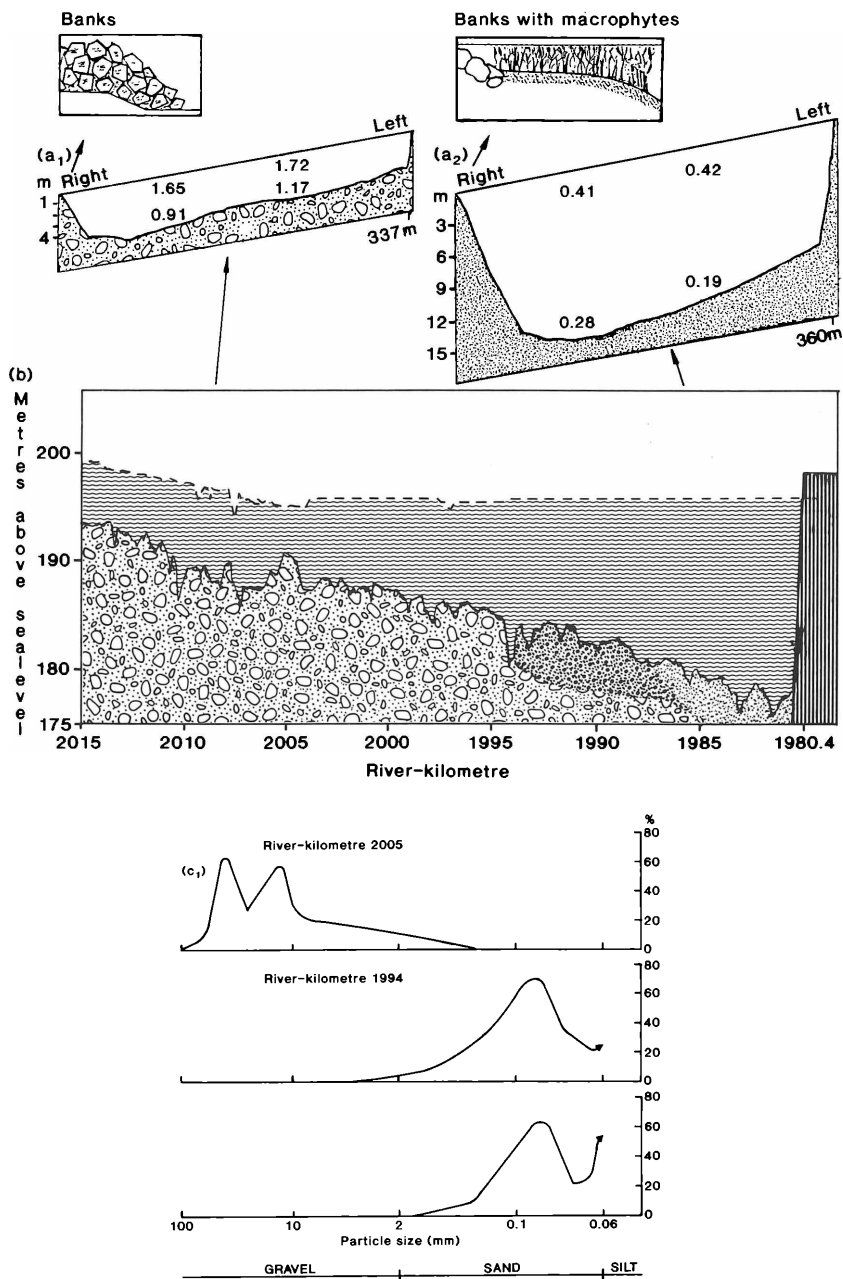
## 2. GENERAL PROBLEMS IN SAMPLING LARGE, DEEP RIVERS

(by U.H. Humpesch)

The following problems occur, and are not encountered in shallow water.

- a) A boat is needed and therefore access to the sampling site is restricted.
- b) The boat must be kept on station using anchors and warps. This is especially important when using samplers which must be kept upright, at least for a certain time.
- c) The samplers must operate automatically and the operator has little control over the performance of the device.
- d) Samplers may not hit the bottom squarely in fast currents and therefore may not function properly.
- e) Some rivers have a substratum of large stones which prevent nearly all samplers from working.

The use of divers circumvents these problems because they can use „shallow“ water samplers. However, such operations are expensive on manpower and are potentially hazardous.



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