3.4.2   Improvement of Parameter Estimates for Distributed Hydrological Models

Within distributed hydrological modelling, it has proven difficult to link model parameter values to measurable basin characteristics. Prediction in Ungauged Basins (PUB), an International Association of Hydrological Sciences (IAHS) decade initiative, aims at improving our ability to estimate hydrological characteristics in basins where river discharge measurements are unavailable. This would be carried out by performing regional hydrological model applications and calibrations to estimate runoff characteristics and model parameters. Trials to relate runoff characteristics and parameter values to land use and soil type classes would then be conducted. A suite of different hydrological models could be used to test the robustness of the results. This should be closely associated with the work described above for high resolution hydrological modelling.