

1.4.3 Closing the Energy and Water Budget on a High Level of Confidence

Closure of the energy and water budget of the Baltic Sea basin means to independently estimate the different exchange fluxes between the reservoirs (ocean, atmosphere, land) with sufficient accuracy. This potential activity will carefully evaluate existing data sets, *e.g.* the re-analysis data sets to be developed as described in section 1.4.1, with respect to the fluxes between major reservoirs including error characteristics. Eventually emerging inconsistencies in the energy and water balance will be used to trace down deficient data characterisations or assumptions used when computing the fluxes, thus successively narrowing down uncertainties and better understanding the different energy and water flows in the regional climate system. The results will also provide benchmarks for a system approach to the evaluation of regional climate models.