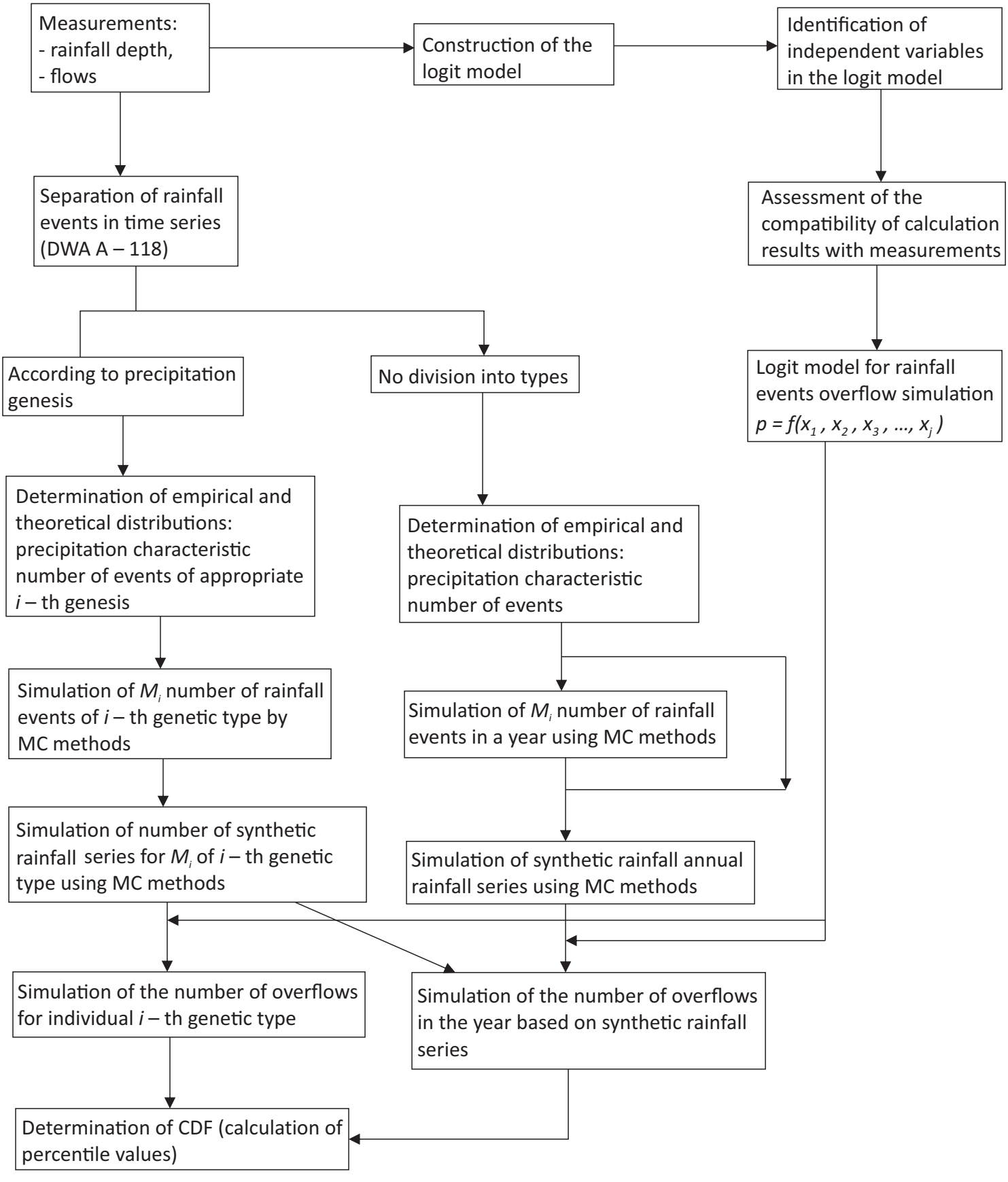
Measurements:
- rainfall depth,
- flows
Construction of the logit model
Identification of independent variables in the logit model
Separation of rainfall events in time series (DWA A – 118)
Assessment of the compatibility of calculation results with measurements
According to precipitation genesis
No division into types
Logit model for rainfall events overflow simulation
$p = f(x_1, x_2, x_3, ..., x_j)$
Determination of empirical and theoretical distributions: precipitation characteristic number of events of appropriate i – th genesis
Determination of empirical and theoretical distributions: precipitation characteristic number of events
Simulation of M_i number of rainfall events of i – th genetic type by MC methods
Simulation of M_i number of rainfall events in a year using MC methods
Simulation of number of synthetic rainfall series for M_i of i – th genetic type using MC methods
Simulation of synthetic rainfall annual rainfall series using MC methods
Simulation of the number of overflows for individual i – th genetic type
Simulation of the number of overflows in the year based on synthetic rainfall series
Determination of CDF (calculation of percentile values)