(a) Data

ECMWF weather prediction model

10 initial conditions

LISFLOOD hydrological model

24 lead times

Hydrological simulations

10 x 24 x 20 years = 4800 years

(b) Processing: model and ensemble evaluation

Data subsetting

Bias correction: quantile mapping

Flood identification: AM and POT

Independence and stability tests

(c) Frequency analysis

Event pooling: lead times > 22 d

Local flood frequency analysis

Regional flood frequency analysis

Comparison of theoretical to empirical estimates

Explaining estimates by covariates: linear model