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# Calibration and evaluation sub-periods
per1_wup <- c("1999-01-01", "2001-12-31")
per1_sim <- c("2002-01-01", "2008-12-31")
per2_wup <- c("2009-01-01", "2011-12-31")
per2_sim <- c("2012-01-01", "2018-12-31")

# Calibration on per1 and per2
cal_per1 <- CalGR(PrepGR = prep,
                  CalCrit = "KGE",
                  transfo = "",
                  WupPer = per1_wup,
                  CalPer = per1_sim,
                  verbose = TRUE)
cal_per2 <- CalGR(PrepGR = prep,
                  CalCrit = "KGE",
                  transfo = "",
                  WupPer = per2_wup,
                  CalPer = per2_sim,
                  verbose = TRUE)

# Get parameter values at the end of the calibration step
param_per1 <- GetParam(cal_per1)
param_per2 <- GetParam(cal_per2)

# Get criteria values at the end of the calibration step
crit_cal_per1 <- GetCrit(cal_per1)
crit_cal_per2 <- GetCrit(cal_per2)

# Evaluation over per1 and per2
eva_per1 <- SimGR(PrepGR = prep,
                  Param = param_per2,
                  WupPer = per1_wup,
                  SimPer = per1_sim,
                  EffCrit = "KGE",
                  verbose = TRUE)

eva_per2 <- SimGR(PrepGR = prep,
                  Param = param_per1,
                  WupPer = per2_wup,
                  SimPer = per2_sim,
                  EffCrit = "KGE",
                  verbose = TRUE)

# Get criteria values
crit_eva_per1 <- GetCrit(eva_per1)
crit_eva_per2 <- GetCrit(eva_per2)

# Cleveland dot plot of the criteria
dotchart(c(crit_eva_per1, crit_cal_per1, crit_eva_per2, crit_cal_per2),
          labels = c("eva (per1)", "cal (per1)", "eva (per2)", "cal (per2)"),
          groups = rep(1:2, each = 2),
          col = rep(c("darkred", "darkblue"), each = 2), pch = 19,
          xlab = "KGE [-]")

```