$$relErr = \frac{(\bar{m} - \bar{o})}{\bar{o}}$$

Transform to 0-1, and positive

mErr = 1.0 - min(1.0, abs(relErr))

mErr 1.0 - min(1.0,abs(relErr)/max(abs(relErr))

Combining

cperf = mErr * max(NSE, 0)

cperf = 0.75*mErr * 0.25*max(NSE,0)

Model Performance

```
#' cper
#'
#' Compute a performance measure (0-1) between observation and model
#' based on both NSE and relative error
#' @param  m  model estimates
#' @param  o  observations
#' @param  weight.nse weighting to give NSE metric
#' @param  weight.relerr weighting to give relative error metric
#' @return  combined 0-1 performance measure


cper = function(m,o,weight.nse=0.5, weight.relerr=0.5) {

nse = nse(m,o)
mnse = max(nse,0)

rel.err = relerr(m,o)
merr = 1.0-min(1.0, abs(rel.err)/max(abs(rel.err)))

combined = weight.nse*mnse + weight.relerr*merr

return(combined)

}
```