```
R version 2.5.0 (2007-04-23)
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  Natural language support but running in an English locale

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Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> # Autokorrelation der Stationen untersuchen
>
> # Aufruf z.B. wie folgt:
> # /usr/local/bin/R-2.5.0 --no-save < ./autokorrelation.R > log.log
>
> source("einstellungen_lib.R")
> source(paste(lib, "einlesen.R", sep=""))
> source(paste(lib, "gleitendesmittel.R", sep=""))
>
> intervall <- 31
>
> ## Von-bis-Daten fÃ¼r SQL Query
> von_sql <- "1992-01-01"
> bis_sql <- "2006-12-31"
>
> ## SQL Querys
> # Temperatur 2m Ã¼ber Boden 12 Deutsche Stationen
> sql_mit_var <- quote(paste("SELECT timepoint, swissname, messwertname, unit, m
esswert FROM daten INNER JOIN station ON daten.stationid=station.stationid INNER
 JOIN messwert ON daten.messwertid=messwert.messwertid AND daten.timepoint BETWE
EN '", von_sql, " 00:00:00' AND '", bis_sql, " 00:00:00' AND messwert.messwertna
me LIKE 'Lufttemperatur 2 m Ã¼ber Boden; Tagesmittel' AND daten.stationid IN (18
76, 1882, 1883, 110637, 110501, 110384, 110400, 110015, 110427, 110727, 110170,
110738) ORDER BY daten.timepoint", sep=""))
>
> # Temperatur 2m Ã¼ber Boden Schweiz
> #sql_mit_var <- quote(paste("SELECT timepoint, swissname, messwertname, unit,
messwert FROM daten INNER JOIN station ON daten.stationid=station.stationid INNE
R JOIN messwert ON daten.messwertid=messwert.messwertid INNER JOIN beziehung ON
daten.stationid=beziehung.stationid INNER JOIN stationtyp ON beziehung.typid=sta
tiontyp.typid AND daten.timepoint BETWEEN '", von_sql, " 00:00:00' AND '", bis_s
ql, " 00:00:00' AND messwert.messwertname LIKE 'Lufttemperatur 2 m Ã¼ber Boden;
Tagesmittel' AND stationtyp.beschreibung LIKE 'Schweiz' ORDER BY daten.timepoint
", sep=""))
>
> sql <- eval(sql_mit_var)
>
> cat("SQL Query:\n", sql, "\n", sep="")
SQL Query:
SELECT timepoint, swissname, messwertname, unit, messwert FROM daten INNER JOIN
station ON daten.stationid=station.stationid INNER JOIN messwert ON daten.messwe
rtid=messwert.messwertid AND daten.timepoint BETWEEN '1992-01-01 00:00:00' AND '
2006-12-31 00:00:00' AND messwert.messwertname LIKE 'Lufttemperatur 2 m Ã¼ber Bo
den; Tagesmittel' AND daten.stationid IN (1876, 1882, 1883, 110637, 110501, 1103
84, 110400, 110015, 110427, 110727, 110170, 110738) ORDER BY daten.timepoint
>
> daten <- einlesen(sql)
```



```
>
> # Timepoint ist keine Zeitangabe, korrigiere das
> # Zeit ist in UTC aber es keine Zeitzone gespeichert.
> # R nimmt CET an. Via as.Date(as.POSIXlt(...)) wird
> # die Zeitzone in die ewige JagdgrÃ¼nde versenkt.
> daten$timepoint <- as.Date(as.POSIXlt(daten$timepoint))
>
> # Messwert muss numeric sein
> daten$messwert <- as.numeric(daten$messwert)
>
> #Running Median berechnen und damit glÃ¤tten
> # TODO: Cazzo, gibts kein running mean in R?!?
> poslevel <- is.na(levels(daten$swissname))
> for(name in levels(daten$swissname))
+  {
+   cat("Bearbeite Station:", name, " mit: ")
+   pos <- daten$swissname==name
+   anzahl <- as.numeric(summary(pos)["TRUE"])
+   cat(anzahl, "Messwerten\n")
+   if(anzahl < intervall)
+    {
+     cat("Sinnlos einen running mean zu berechnen, lasse diese Station aus!\n")
+     poslevel <- (poslevel | (levels(daten$swissname)==name))
+    } else
+    {
+     #daten$abweichung[pos] <- daten$messwert[pos]-runmed(daten$messwert[pos],
31)
+     daten$abweichung[pos] <- daten$messwert[pos] - gleitendesmittel(daten$mess
wert[pos], intervall)
+    }
+  }
Bearbeite Station: Aachen  mit: 5479 Messwerten
Bearbeite Station: Berlin-Tempelhof  mit: 5479 Messwerten
Bearbeite Station: DÃ¼sseldorf  mit: 5479 Messwerten
Bearbeite Station: Frankfurt/Main Flughafen  mit: 5479 Messwerten
Bearbeite Station: Helgoland  mit: 5479 Messwerten
Bearbeite Station: Hohenpeissenberg  mit: 5479 Messwerten
Bearbeite Station: Kahler Asten  mit: 5479 Messwerten
Bearbeite Station: Karlsruhe  mit: 5479 Messwerten
Bearbeite Station: Konstanz  mit: 5479 Messwerten
Bearbeite Station: Rostock-WarnemÃ¼nde  mit: 5479 Messwerten
Bearbeite Station: Stuttgart-Echterdingen  mit: 5479 Messwerten
Bearbeite Station: Zugspitze  mit: 5479 Messwerten
>
> str(daten)
'data.frame':   65748 obs. of  6 variables:
 $ timepoint   :Class 'Date'  num [1:65748] 8035 8035 8035 8035 8035 ...
 $ swissname   : Factor w/ 12 levels "Aachen","Berlin-Tempelhof",..: 6 1 8 7 9 4
 12 2 11 3 ...
 $ messwertname: Factor w/ 1 level "Lufttemperatur 2 m Ã¼ber Boden; Tagesmittel"
: 1 1 1 1 1 1 1 1 1 1 ...
 $ unit        : Factor w/ 1 level "Â°C": 1 1 1 1 1 1 1 1 1 1 ...
 $ messwert    : num   4.6  3.2  0.3 -1.7 -1.9 ...
 $ abweichung  : num  NA NA NA NA NA NA NA NA NA NA ...
>
> datenliste <- new.env()
> for(swissname in levels(daten$swissname)) {
+   befehl <- (paste("datenliste$`", swissname, "` <- daten[daten$swissname==swi
ssname,]", sep=""))
+   eval(parse(text=befehl))
+  }
> datenliste <- as.list(datenliste)
>
> cortest <- list()
> i <- 1
>
```



```
> for(ref in datenliste) {
+  #cat("== Station: ", as.character(ref$swissname[1]), " ==\n", sep="")
+  laenge <- length(ref$messwert)
+  limit <- laenge*0.9
+  messwertref <- ref$messwert
+  if(length(na.omit(messwertref))>limit) {
+   messwertref <- as.ts(messwertref)
+   for(vergleich in datenliste) {
+    #cat("Vergleich ", as.character(ref$swissname[1]), " mit ", as.character(ve
rgleich$swissname[1]), "\n", sep="")
+    messwertvergleich <- vergleich$messwert
+    if(length(na.omit(messwertvergleich))>limit) {
+     messwertvergleich <- as.ts(messwertvergleich)
+     #print(cortest)
+     text <- paste(as.character(ref$swissname[1]), "vs.", as.character(vergleic
h$swissname[1]))
+     cortest[[i]] <- list(text=text[1], test=cor.test(messwertref, messwertverg
leich))
+     i <- i+1
+     cat("*")
+    } else {
+     #cat("Mehr als 10% der Werte sind NA -> mache kein cor.test\n")
+     cat("0")
+    }
+   }
+  } else {
+   #cat("Mehr als 10% der Werte sind NA -> mache kein cor.test\n")
+   cat("0")
+  }
+  cat("\n\n")
+ }
************

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>
> ## Alles ausgeben
> print(cortest)
[[1]]
[[1]]$text
[1] "Zugspitze vs. Zugspitze"

[[1]]$test

        Pearson's product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[2]]
[[2]]$text
[1] "Zugspitze vs. Stuttgart-Echterdingen"

[[2]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 126.5075, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8562431 0.8697532
sample estimates:
      cor
0.8631525



[[3]]
[[3]]$text
[1] "Zugspitze vs. Rostock-WarnemÃ¼nde"

[[3]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 107.3173, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8145069 0.8315834
sample estimates:
      cor
0.8232313



[[4]]
[[4]]$text
[1] "Zugspitze vs. Konstanz"

[[4]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 124.7181, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8529333 0.8667321
sample estimates:
      cor
0.8599898
```

```
[[5]]
[[5]]$text
[1] "Zugspitze vs. Karlsruhe"

[[5]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 119.2292, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8420982 0.8568350
sample estimates:
      cor
0.8496324



[[6]]
[[6]]$text
[1] "Zugspitze vs. Kahler Asten"

[[6]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 141.653, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8805115 0.8918737
sample estimates:
     cor
0.886326



[[7]]
[[7]]$text
[1] "Zugspitze vs. Hohenpeissenberg"

[[7]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 178.1034, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9194535 0.9272560
sample estimates:
      cor
0.9234501



[[8]]
[[8]]$text
[1] "Zugspitze vs. Helgoland"

[[8]]$test

        Pearson’s product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = 104.4149, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8068042 0.8245212
sample estimates:
     cor
0.815854



[[9]]
[[9]]$text
[1] "Zugspitze vs. Frankfurt/Main Flughafen"

[[9]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 115.7191, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8345861 0.8499670
sample estimates:
      cor
0.8424481



[[10]]
[[10]]$text
[1] "Zugspitze vs. DÃ¼sseldorf"

[[10]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 120.6824, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8450713 0.8595518
sample estimates:
     cor
0.852475



[[11]]
[[11]]$text
[1] "Zugspitze vs. Berlin-Tempelhof"

[[11]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 110.6023, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8227326 0.8391189
sample estimates:
     cor
0.831106
```



```
[[12]]
[[12]]$text
[1] "Zugspitze vs. Aachen"

[[12]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 125.8442, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8550283 0.8686445
sample estimates:
      cor
0.8619918



[[13]]
[[13]]$text
[1] "Stuttgard-Echterdingen vs. Zugspitze"

[[13]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 126.5075, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8562431 0.8697532
sample estimates:
      cor
0.8631525



[[14]]
[[14]]$text
[1] "Stuttgard-Echterdingen vs. Stuttgard-Echterdingen"

[[14]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[15]]
[[15]]$text
[1] "Stuttgard-Echterdingen vs. Rostock-WarnemÃ¼nde"

[[15]]$test
```



```
        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 169.2281, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9118611 0.9203685
sample estimates:
     cor
0.916218



[[16]]
[[16]]$text
[1] "Stuttgard-Echterdingen vs. Konstanz"

[[16]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 421.4266, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9841149 0.9857003
sample estimates:
      cor
0.9849283



[[17]]
[[17]]$text
[1] "Stuttgard-Echterdingen vs. Karlsruhe"

[[17]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 586.5676, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9917083 0.9925387
sample estimates:
      cor
0.9921345



[[18]]
[[18]]$text
[1] "Stuttgard-Echterdingen vs. Kahler Asten"

[[18]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 208.1911, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.939192 0.945137
sample estimates:
      cor
```

```
    0.9422386


[[19]]
[[19]]$text
[1] "Stuttgart-Echterdingen vs. Hohenpeissenberg"

[[19]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 230.7885, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9497062 0.9546473
sample estimates:
      cor
0.952239



[[20]]
[[20]]$text
[1] "Stuttgart-Echterdingen vs. Helgoland"

[[20]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 135.8155, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8718911 0.8840225
sample estimates:
      cor
0.8780978



[[21]]
[[21]]$text
[1] "Stuttgart-Echterdingen vs. Frankfurt/Main Flughafen"

[[21]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 414.8561, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9836197 0.9852542
sample estimates:
      cor
0.9844582



[[22]]
[[22]]$text
[1] "Stuttgart-Echterdingen vs. DÃ¼sseldorf"

[[22]]$test
```



```

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 238.3171, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9526222 0.9572832
sample estimates:
      cor
0.9550116



[[23]]
[[23]]$text
[1] "Stuttgart-Echterdingen vs. Berlin-Tempelhof"

[[23]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 207.0991, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9386051 0.9446059
sample estimates:
      cor
0.9416803



[[24]]
[[24]]$text
[1] "Stuttgart-Echterdingen vs. Aachen"

[[24]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 220.8954, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9454582 0.9508062
sample estimates:
      cor
0.9481993



[[25]]
[[25]]$text
[1] "Rostock-WarnemÃ¼nde vs. Zugspitze"

[[25]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 107.3173, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8145069 0.8315834
sample estimates:
```



```
      cor
0.8232313



[[26]]
[[26]]$text
[1] "Rostock-WarnemÃ¼nde vs. Stuttgart-Echterdingen"

[[26]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 169.2281, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9118611 0.9203685
sample estimates:
      cor
0.916218



[[27]]
[[27]]$text
[1] "Rostock-WarnemÃ¼nde vs. Rostock-WarnemÃ¼nde"

[[27]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[28]]
[[28]]$text
[1] "Rostock-WarnemÃ¼nde vs. Konstanz"

[[28]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 157.4224, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9000727 0.9096642
sample estimates:
      cor
0.9049834



[[29]]
[[29]]$text
[1] "Rostock-WarnemÃ¼nde vs. Karlsruhe"
```



```
[[29]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 171.9218, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9142704 0.9225546
sample estimates:
      cor
0.9185133



[[30]]
[[30]]$text
[1] "Rostock-WarnemÃ¼nde vs. Kahler Asten"

[[30]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 183.5716, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9236708 0.9310794
sample estimates:
      cor
0.9274661



[[31]]
[[31]]$text
[1] "Rostock-WarnemÃ¼nde vs. Hohenpeissenberg"

[[31]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 136.4574, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8728809 0.8849243
sample estimates:
      cor
0.8790428



[[32]]
[[32]]$text
[1] "Rostock-WarnemÃ¼nde vs. Helgoland"

[[32]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 247.2666, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.955777 0.960134
```

```
sample estimates:
      cor
0.9580108



[[33]]
[[33]]$text
[1] "Rostock-WarnemÃ¼nde vs. Frankfurt/Main Flughafen"

[[33]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 188.3589, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9271064 0.9341929
sample estimates:
     cor
0.930737



[[34]]
[[34]]$text
[1] "Rostock-WarnemÃ¼nde vs. DÃ¼sseldorf"

[[34]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 191.696, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9293706 0.9362443
sample estimates:
      cor
0.9328924



[[35]]
[[35]]$text
[1] "Rostock-WarnemÃ¼nde vs. Berlin-Tempelhof"

[[35]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 319.4819, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9728194 0.9755183
sample estimates:
      cor
0.9742037



[[36]]
[[36]]$text
[1] "Rostock-WarnemÃ¼nde vs. Aachen"
```



```

[[36]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 171.0889, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9135356 0.9218880
sample estimates:
      cor
0.9178133



[[37]]
[[37]]$text
[1] "Konstanz vs. Zugspitze"

[[37]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 124.7181, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8529333 0.8667321
sample estimates:
      cor
0.8599898



[[38]]
[[38]]$text
[1] "Konstanz vs. Stuttgard-Echterdingen"

[[38]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 421.4266, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9841149 0.9857003
sample estimates:
      cor
0.9849283



[[39]]
[[39]]$text
[1] "Konstanz vs. Rostock-WarnemÃ¼nde"

[[39]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 157.4224, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
```



```
 0.9000727 0.9096642
sample estimates:
      cor
0.9049834



[[40]]
[[40]]$text
[1] "Konstanz vs. Konstanz"

[[40]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[41]]
[[41]]$text
[1] "Konstanz vs. Karlsruhe"

[[41]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 376.1197, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9801732 0.9821485
sample estimates:
      cor
0.9811866



[[42]]
[[42]]$text
[1] "Konstanz vs. Kahler Asten"

[[42]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 182.1304, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9225908 0.9301004
sample estimates:
      cor
0.9264377



[[43]]
[[43]]$text
```



```
[1] "Konstanz vs. Hohenpeissenberg"

[[43]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 213.4978, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9419308 0.9476153
sample estimates:
      cor
0.9448442



[[44]]
[[44]]$text
[1] "Konstanz vs. Helgoland"

[[44]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 131.0071, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8641217 0.8769404
sample estimates:
      cor
0.8706789



[[45]]
[[45]]$text
[1] "Konstanz vs. Frankfurt/Main Flughafen"

[[45]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 302.2909, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9697780 0.9727747
sample estimates:
      cor
0.9713149



[[46]]
[[46]]$text
[1] "Konstanz vs. DÃ¼sseldorf"

[[46]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 200.4822, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
```

```
    95 percent confidence interval:
     0.9348665 0.9412216
    sample estimates:
          cor
    0.938123



    [[47]]
    [[47]]$text
    [1] "Konstanz vs. Berlin-Tempelhof"

    [[47]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 182.5592, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9229144 0.9303937
    sample estimates:
          cor
    0.9267458



    [[48]]
    [[48]]$text
    [1] "Konstanz vs. Aachen"

    [[48]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 190.8322, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9287944 0.9357223
    sample estimates:
          cor
    0.9323439



    [[49]]
    [[49]]$text
    [1] "Karlsruhe vs. Zugspitze"

    [[49]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 119.2292, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.8420982 0.8568350
    sample estimates:
          cor
    0.8496324



    [[50]]
```



```
    [[50]]$text
    [1] "Karlsruhe vs. Stuttgard-Echterdingen"

    [[50]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 586.5676, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9917083 0.9925387
    sample estimates:
          cor
    0.9921345



    [[51]]
    [[51]]$text
    [1] "Karlsruhe vs. Rostock-WarnemÃ¼nde"

    [[51]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 171.9218, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9142704 0.9225546
    sample estimates:
          cor
    0.9185133



    [[52]]
    [[52]]$text
    [1] "Karlsruhe vs. Konstanz"

    [[52]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 376.1197, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9801732 0.9821485
    sample estimates:
          cor
    0.9811866



    [[53]]
    [[53]]$text
    [1] "Karlsruhe vs. Karlsruhe"

    [[53]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = Inf, df = 5477, p-value < 2.2e-16
```



```
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     1 1
    sample estimates:
    cor
      1



    [[54]]
    [[54]]$text
    [1] "Karlsruhe vs. Kahler Asten"

    [[54]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 213.0923, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9417279 0.9474317
    sample estimates:
          cor
    0.9446512



    [[55]]
    [[55]]$text
    [1] "Karlsruhe vs. Hohenpeissenberg"

    [[55]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 203.7458, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9367505 0.9429273
    sample estimates:
          cor
    0.9399158



    [[56]]
    [[56]]$text
    [1] "Karlsruhe vs. Helgoland"

    [[56]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 137.7175, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.8747931 0.8866663
    sample estimates:
          cor
    0.8808682
```



```
    [[57]]
    [[57]]$text
    [1] "Karlsruhe vs. Frankfurt/Main Flughafen"

    [[57]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 516.9781, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9893624 0.9904267
    sample estimates:
          cor
    0.9899085



    [[58]]
    [[58]]$text
    [1] "Karlsruhe vs. DÃ¼sseldorf"

    [[58]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 255.881, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9585311 0.9626218
    sample estimates:
          cor
    0.9606285



    [[59]]
    [[59]]$text
    [1] "Karlsruhe vs. Berlin-Tempelhof"

    [[59]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
    t = 208.5217, df = 5477, p-value < 2.2e-16
    alternative hypothesis: true correlation is not equal to 0
    95 percent confidence interval:
     0.9393680 0.9452963
    sample estimates:
          cor
    0.9424061



    [[60]]
    [[60]]$text
    [1] "Karlsruhe vs. Aachen"

    [[60]]$test

            Pearson's product-moment correlation

    data:  messwertref and messwertvergleich
```

```
t = 235.5825, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9515923 0.9563523
sample estimates:
      cor
0.9540325



[[61]]
[[61]]$text
[1] "Kahler Asten vs. Zugspitze"

[[61]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 141.653, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8805115 0.8918737
sample estimates:
     cor
0.886326



[[62]]
[[62]]$text
[1] "Kahler Asten vs. Stuttgart-Echterdingen"

[[62]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 208.1911, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.939192 0.945137
sample estimates:
      cor
0.9422386



[[63]]
[[63]]$text
[1] "Kahler Asten vs. Rostock-WarnemÃ¼nde"

[[63]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 183.5716, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9236708 0.9310794
sample estimates:
      cor
0.9274661
```



```
[[64]]
[[64]]$text
[1] "Kahler Asten vs. Konstanz"

[[64]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 182.1304, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9225908 0.9301004
sample estimates:
      cor
0.9264377



[[65]]
[[65]]$text
[1] "Kahler Asten vs. Karlsruhe"

[[65]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 213.0923, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9417279 0.9474317
sample estimates:
      cor
0.9446512



[[66]]
[[66]]$text
[1] "Kahler Asten vs. Kahler Asten"

[[66]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 4966509354, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[67]]
[[67]]$text
[1] "Kahler Asten vs. Hohenpeissenberg"

[[67]]$test

        Pearson’s product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = 203.5781, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9366557 0.9428414
sample estimates:
      cor
0.9398255



[[68]]
[[68]]$text
[1] "Kahler Asten vs. Helgoland"

[[68]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 156.2759, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.898810 0.908517
sample estimates:
      cor
0.9037796



[[69]]
[[69]]$text
[1] "Kahler Asten vs. Frankfurt/Main Flughafen"

[[69]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 237.1292, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9521788 0.9568824
sample estimates:
    cor
0.95459



[[70]]
[[70]]$text
[1] "Kahler Asten vs. DÃ¼sseldorf"

[[70]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 312.7027, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9716766 0.9744875
sample estimates:
      cor
0.9731182
```



```
[[71]]
[[71]]$text
[1] "Kahler Asten vs. Berlin-Tempelhof"

[[71]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 211.2706, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9408036 0.9465955
sample estimates:
     cor
0.943772



[[72]]
[[72]]$text
[1] "Kahler Asten vs. Aachen"

[[72]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 313.9293, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9718886 0.9746787
sample estimates:
      cor
0.9733196



[[73]]
[[73]]$text
[1] "Hohenpeissenberg vs. Zugspitze"

[[73]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 178.1034, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9194535 0.9272560
sample estimates:
      cor
0.9234501



[[74]]
[[74]]$text
[1] "Hohenpeissenberg vs. Stuttgart-Echterdingen"

[[74]]$test

        Pearson’s product-moment correlation
```

```
data:  messwertref and messwertvergleich
t = 230.7885, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9497062 0.9546473
sample estimates:
      cor
0.952239



[[75]]
[[75]]$text
[1] "Hohenpeissenberg vs. Rostock-WarnemÃ¼nde"

[[75]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 136.4574, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8728809 0.8849243
sample estimates:
      cor
0.8790428



[[76]]
[[76]]$text
[1] "Hohenpeissenberg vs. Konstanz"

[[76]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 213.4978, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9419308 0.9476153
sample estimates:
      cor
0.9448442



[[77]]
[[77]]$text
[1] "Hohenpeissenberg vs. Karlsruhe"

[[77]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 203.7458, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9367505 0.9429273
sample estimates:
      cor
0.9399158
```



```



[[78]]
[[78]]$text
[1] "Hohenpeissenberg vs. Kahler Asten"

[[78]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 203.5781, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9366557 0.9428414
sample estimates:
      cor
0.9398255



[[79]]
[[79]]$text
[1] "Hohenpeissenberg vs. Hohenpeissenberg"

[[79]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[80]]
[[80]]$text
[1] "Hohenpeissenberg vs. Helgoland"

[[80]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 116.513, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8363273 0.8515594
sample estimates:
      cor
0.8441136



[[81]]
[[81]]$text
[1] "Hohenpeissenberg vs. Frankfurt/Main Flughafen"

[[81]]$test
```



```
        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 189.5222, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9279075 0.9349188
sample estimates:
      cor
0.9314996



[[82]]
[[82]]$text
[1] "Hohenpeissenberg vs. DÃ¼sseldorf"

[[82]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 184.3302, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9242306 0.9315868
sample estimates:
     cor
0.927999



[[83]]
[[83]]$text
[1] "Hohenpeissenberg vs. Berlin-Tempelhof"

[[83]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 156.5316, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8990936 0.9087745
sample estimates:
    cor
0.90405



[[84]]
[[84]]$text
[1] "Hohenpeissenberg vs. Aachen"

[[84]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 191.5374, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9292653 0.9361489
sample estimates:
      cor
```



```
0.9327922



[[85]]
[[85]]$text
[1] "Helgoland vs. Zugspitze"

[[85]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 104.4149, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8068042 0.8245212
sample estimates:
     cor
0.815854



[[86]]
[[86]]$text
[1] "Helgoland vs. Stuttgard-Echterdingen"

[[86]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 135.8155, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8718911 0.8840225
sample estimates:
      cor
0.8780978



[[87]]
[[87]]$text
[1] "Helgoland vs. Rostock-WarnemÃ¼nde"

[[87]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 247.2666, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.955777 0.960134
sample estimates:
      cor
0.9580108



[[88]]
[[88]]$text
[1] "Helgoland vs. Konstanz"

[[88]]$test
```

```
        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 131.0071, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8641217 0.8769404
sample estimates:
      cor
0.8706789



[[89]]
[[89]]$text
[1] "Helgoland vs. Karlsruhe"

[[89]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 137.7175, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8747931 0.8866663
sample estimates:
      cor
0.8808682



[[90]]
[[90]]$text
[1] "Helgoland vs. Kahler Asten"

[[90]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 156.2759, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.898810 0.908517
sample estimates:
      cor
0.9037796



[[91]]
[[91]]$text
[1] "Helgoland vs. Hohenpeissenberg"

[[91]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 116.513, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8363273 0.8515594
sample estimates:
```



```
      cor
0.8441136



[[92]]
[[92]]$text
[1] "Helgoland vs. Helgoland"

[[92]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[93]]
[[93]]$text
[1] "Helgoland vs. Frankfurt/Main Flughafen"

[[93]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 145.8356, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8861940 0.8970454
sample estimates:
      cor
0.8917478



[[94]]
[[94]]$text
[1] "Helgoland vs. DÃ¼sseldorf"

[[94]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 162.6073, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9055114 0.9146043
sample estimates:
      cor
0.9101675



[[95]]
[[95]]$text
[1] "Helgoland vs. Berlin-Tempelhof"
```



```
[[95]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 173.1488, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9153366 0.9235219
sample estimates:
      cor
0.9195289



[[96]]
[[96]]$text
[1] "Helgoland vs. Aachen"

[[96]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 151.4249, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8932087 0.9034255
sample estimates:
      cor
0.8984386



[[97]]
[[97]]$text
[1] "Frankfurt/Main Flughafen vs. Zugspitze"

[[97]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 115.7191, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8345861 0.8499670
sample estimates:
      cor
0.8424481



[[98]]
[[98]]$text
[1] "Frankfurt/Main Flughafen vs. Stuttgard-Echterdingen"

[[98]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 414.8561, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9836197 0.9852542
```



```
sample estimates:
      cor
0.9844582



[[99]]
[[99]]$text
[1] "Frankfurt/Main Flughafen vs. Rostock-WarnemÃ¼nde"

[[99]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 188.3589, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9271064 0.9341929
sample estimates:
     cor
0.930737



[[100]]
[[100]]$text
[1] "Frankfurt/Main Flughafen vs. Konstanz"

[[100]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 302.2909, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9697780 0.9727747
sample estimates:
      cor
0.9713149



[[101]]
[[101]]$text
[1] "Frankfurt/Main Flughafen vs. Karlsruhe"

[[101]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 516.9781, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9893624 0.9904267
sample estimates:
      cor
0.9899085



[[102]]
[[102]]$text
[1] "Frankfurt/Main Flughafen vs. Kahler Asten"
```

```
[[102]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 237.1292, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9521788 0.9568824
sample estimates:
     cor
0.95459



[[103]]
[[103]]$text
[1] "Frankfurt/Main Flughafen vs. Hohenpeissenberg"

[[103]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 189.5222, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9279075 0.9349188
sample estimates:
      cor
0.9314996



[[104]]
[[104]]$text
[1] "Frankfurt/Main Flughafen vs. Helgoland"

[[104]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 145.8356, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8861940 0.8970454
sample estimates:
      cor
0.8917478



[[105]]
[[105]]$text
[1] "Frankfurt/Main Flughafen vs. Frankfurt/Main Flughafen"

[[105]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 4966509354, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
```



```
 1 1
sample estimates:
cor
  1



[[106]]
[[106]]$text
[1] "Frankfurt/Main Flughafen vs. DÃ¼sseldorf"

[[106]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 288.7219, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9670081 0.9702753
sample estimates:
      cor
0.9686836



[[107]]
[[107]]$text
[1] "Frankfurt/Main Flughafen vs. Berlin-Tempelhof"

[[107]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 237.4134, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9522854 0.9569788
sample estimates:
      cor
0.9546914



[[108]]
[[108]]$text
[1] "Frankfurt/Main Flughafen vs. Aachen"

[[108]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 248.8526, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9563039 0.9606099
sample estimates:
      cor
0.9585116



[[109]]
[[109]]$text
```



```
[1] "DÃ¼sseldorf vs. Zugspitze"

[[109]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 120.6824, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8450713 0.8595518
sample estimates:
     cor
0.852475



[[110]]
[[110]]$text
[1] "DÃ¼sseldorf vs. Stuttgard-Echterdingen"

[[110]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 238.3171, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9526222 0.9572832
sample estimates:
      cor
0.9550116



[[111]]
[[111]]$text
[1] "DÃ¼sseldorf vs. Rostock-WarnemÃ¼nde"

[[111]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 191.696, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9293706 0.9362443
sample estimates:
      cor
0.9328924



[[112]]
[[112]]$text
[1] "DÃ¼sseldorf vs. Konstanz"

[[112]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 200.4822, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
```



```
95 percent confidence interval:
 0.9348665 0.9412216
sample estimates:
     cor
0.938123



[[113]]
[[113]]$text
[1] "DÃ¼sseldorf vs. Karlsruhe"

[[113]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 255.881, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9585311 0.9626218
sample estimates:
      cor
0.9606285



[[114]]
[[114]]$text
[1] "DÃ¼sseldorf vs. Kahler Asten"

[[114]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 312.7027, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9716766 0.9744875
sample estimates:
      cor
0.9731182



[[115]]
[[115]]$text
[1] "DÃ¼sseldorf vs. Hohenpeissenberg"

[[115]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 184.3302, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9242306 0.9315868
sample estimates:
     cor
0.927999



[[116]]
```

```
[[116]]$text
[1] "DÃ¼sseldorf vs. Helgoland"

[[116]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 162.6073, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9055114 0.9146043
sample estimates:
      cor
0.9101675



[[117]]
[[117]]$text
[1] "DÃ¼sseldorf vs. Frankfurt/Main Flughafen"

[[117]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 288.7219, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9670081 0.9702753
sample estimates:
      cor
0.9686836



[[118]]
[[118]]$text
[1] "DÃ¼sseldorf vs. DÃ¼sseldorf"

[[118]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[119]]
[[119]]$text
[1] "DÃ¼sseldorf vs. Berlin-Tempelhof"

[[119]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 215.406, df = 5477, p-value < 2.2e-16
```



```
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9428718 0.9484667
sample estimates:
      cor
0.9457393



[[120]]
[[120]]$text
[1] "DÃ¼sseldorf vs. Aachen"

[[120]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 545.939, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9904460 0.9914022
sample estimates:
      cor
0.9909366



[[121]]
[[121]]$text
[1] "Berlin-Tempelhof vs. Zugspitze"

[[121]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 110.6023, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8227326 0.8391189
sample estimates:
     cor
0.831106



[[122]]
[[122]]$text
[1] "Berlin-Tempelhof vs. Stuttgard-Echterdingen"

[[122]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 207.0991, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9386051 0.9446059
sample estimates:
      cor
0.9416803
```



```
[[123]]
[[123]]$text
[1] "Berlin-Tempelhof vs. Rostock-WarnemÃ¼nde"

[[123]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 319.4819, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9728194 0.9755183
sample estimates:
      cor
0.9742037



[[124]]
[[124]]$text
[1] "Berlin-Tempelhof vs. Konstanz"

[[124]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 182.5592, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9229144 0.9303937
sample estimates:
      cor
0.9267458



[[125]]
[[125]]$text
[1] "Berlin-Tempelhof vs. Karlsruhe"

[[125]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 208.5217, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9393680 0.9452963
sample estimates:
      cor
0.9424061



[[126]]
[[126]]$text
[1] "Berlin-Tempelhof vs. Kahler Asten"

[[126]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
```



```
t = 211.2706, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9408036 0.9465955
sample estimates:
     cor
0.943772



[[127]]
[[127]]$text
[1] "Berlin-Tempelhof vs. Hohenpeissenberg"

[[127]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 156.5316, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8990936 0.9087745
sample estimates:
    cor
0.90405



[[128]]
[[128]]$text
[1] "Berlin-Tempelhof vs. Helgoland"

[[128]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 173.1488, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9153366 0.9235219
sample estimates:
      cor
0.9195289



[[129]]
[[129]]$text
[1] "Berlin-Tempelhof vs. Frankfurt/Main Flughafen"

[[129]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 237.4134, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9522854 0.9569788
sample estimates:
      cor
0.9546914
```

```
[[130]]
[[130]]$text
[1] "Berlin-Tempelhof vs. DÃ¼sseldorf"

[[130]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 215.406, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9428718 0.9484667
sample estimates:
      cor
0.9457393



[[131]]
[[131]]$text
[1] "Berlin-Tempelhof vs. Berlin-Tempelhof"

[[131]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[132]]
[[132]]$text
[1] "Berlin-Tempelhof vs. Aachen"

[[132]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 187.7902, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9267101 0.9338339
sample estimates:
      cor
0.9303597



[[133]]
[[133]]$text
[1] "Aachen vs. Zugspitze"

[[133]]$test

        Pearson's product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = 125.8442, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8550283 0.8686445
sample estimates:
      cor
0.8619918



[[134]]
[[134]]$text
[1] "Aachen vs. Stuttgard-Echterdingen"

[[134]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 220.8954, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9454582 0.9508062
sample estimates:
      cor
0.9481993



[[135]]
[[135]]$text
[1] "Aachen vs. Rostock-WarnemÃ¼nde"

[[135]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 171.0889, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9135356 0.9218880
sample estimates:
      cor
0.9178133



[[136]]
[[136]]$text
[1] "Aachen vs. Konstanz"

[[136]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 190.8322, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9287944 0.9357223
sample estimates:
      cor
0.9323439
```



```
[[137]]
[[137]]$text
[1] "Aachen vs. Karlsruhe"

[[137]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 235.5825, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9515923 0.9563523
sample estimates:
      cor
0.9540325



[[138]]
[[138]]$text
[1] "Aachen vs. Kahler Asten"

[[138]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 313.9293, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9718886 0.9746787
sample estimates:
      cor
0.9733196



[[139]]
[[139]]$text
[1] "Aachen vs. Hohenpeissenberg"

[[139]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 191.5374, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9292653 0.9361489
sample estimates:
      cor
0.9327922



[[140]]
[[140]]$text
[1] "Aachen vs. Helgoland"

[[140]]$test

        Pearson's product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = 151.4249, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8932087 0.9034255
sample estimates:
      cor
0.8984386



[[141]]
[[141]]$text
[1] "Aachen vs. Frankfurt/Main Flughafen"

[[141]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 248.8526, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9563039 0.9606099
sample estimates:
      cor
0.9585116



[[142]]
[[142]]$text
[1] "Aachen vs. DÃ¼sseldorf"

[[142]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 545.939, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9904460 0.9914022
sample estimates:
      cor
0.9909366


[[143]]
[[143]]$text
[1] "Aachen vs. Berlin-Tempelhof"

[[143]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 187.7902, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9267101 0.9338339
sample estimates:
      cor
0.9303597
```

```
[[144]]
[[144]]$text
[1] "Aachen vs. Aachen"

[[144]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 4966509354, df = 5477, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



>
> cortest <- list()
> i <- 1
>
> for(ref in datenliste) {
+  #cat("== Station: ", as.character(ref$swissname[1]), " ==\n", sep="")
+  laenge <- length(ref$abweichung)
+  limit <- laenge*0.9
+  messwertref <- ref$abweichung
+  if(length(na.omit(messwertref))>limit) {
+   messwertref <- as.ts(messwertref)
+   for(vergleich in datenliste) {
+    #cat("Vergleich ", as.character(ref$swissname[1]), " mit ", as.character(ve
rgleich$swissname[1]), "\n", sep="")
+    messwertvergleich <- vergleich$abweichung
+    if(length(na.omit(messwertvergleich))>limit) {
+     messwertvergleich <- as.ts(messwertvergleich)
+     #print(cortest)
+     text <- paste(as.character(ref$swissname[1]), "vs.", as.character(vergleic
h$swissname[1]))
+     cortest[[i]] <- list(text=text[1], test=cor.test(messwertref, messwertverg
leich))
+     i <- i+1
+     cat("*")
+    } else {
+     #cat("Mehr als 10% der Werte sind NA -> mache kein cor.test\n")
+     cat("0")
+    }
+   }
+  } else {
+   #cat("Mehr als 10% der Werte sind NA -> mache kein cor.test\n")
+   cat("0")
+  }
+  cat("\n\n")
+ }
************

************

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```



```
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************

>
> ## Alles ausgeben
> print(cortest)
[[1]]
[[1]]$text
[1] "Zugspitze vs. Zugspitze"

[[1]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 4952888770, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[2]]
[[2]]$text
[1] "Zugspitze vs. Stuttgart-Echterdingen"

[[2]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 66.995, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.657305 0.686429
sample estimates:
      cor
0.6721268



[[3]]
[[3]]$text
[1] "Zugspitze vs. Rostock-WarnemÃ¼nde"

[[3]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 40.7453, df = 5447, p-value < 2.2e-16
```



```
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4626985 0.5034055
sample estimates:
      cor
0.4833132



[[4]]
[[4]]$text
[1] "Zugspitze vs. Konstanz"

[[4]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 63.6886, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6378318 0.6682795
sample estimates:
      cor
0.6533197



[[5]]
[[5]]$text
[1] "Zugspitze vs. Karlsruhe"

[[5]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 60.5167, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6179150 0.6496789
sample estimates:
      cor
0.6340643



[[6]]
[[6]]$text
[1] "Zugspitze vs. Kahler Asten"

[[6]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 73.8945, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6940271 0.7205564
sample estimates:
     cor
0.707541
```



```
[[7]]
[[7]]$text
[1] "Zugspitze vs. Hohenpeissenberg"

[[7]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 103.4335, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8048651 0.8227896
sample estimates:
     cor
0.814021



[[8]]
[[8]]$text
[1] "Zugspitze vs. Helgoland"

[[8]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 38.0857, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4373534 0.4792970
sample estimates:
      cor
0.4585806



[[9]]
[[9]]$text
[1] "Zugspitze vs. Frankfurt/Main Flughafen"

[[9]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 57.0165, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5944527 0.6277183
sample estimates:
      cor
0.6113555



[[10]]
[[10]]$text
[1] "Zugspitze vs. DÃ¼sseldorf"

[[10]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
```

```
t = 58.931, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.607484 0.639922
sample estimates:
      cor
0.6239717



[[11]]
[[11]]$text
[1] "Zugspitze vs. Berlin-Tempelhof"

[[11]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 50.7033, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5479356 0.5840214
sample estimates:
      cor
0.5662498



[[12]]
[[12]]$text
[1] "Zugspitze vs. Aachen"

[[12]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 62.3978, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6298768 0.6608547
sample estimates:
      cor
0.6456313



[[13]]
[[13]]$text
[1] "Stuttgard-Echterdingen vs. Zugspitze"

[[13]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 66.995, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.657305 0.686429
sample estimates:
      cor
0.6721268
```



```
[[14]]
[[14]]$text
[1] "Stuttgard-Echterdingen vs. Stuttgard-Echterdingen"

[[14]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 4952888770, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[15]]
[[15]]$text
[1] "Stuttgard-Echterdingen vs. Rostock-WarnemÃ¼nde"

[[15]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 55.3237, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5825228 0.6165317
sample estimates:
     cor
0.599798



[[16]]
[[16]]$text
[1] "Stuttgard-Echterdingen vs. Konstanz"

[[16]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 176.4764, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9185194 0.9264295
sample estimates:
      cor
0.9225714



[[17]]
[[17]]$text
[1] "Stuttgard-Echterdingen vs. Karlsruhe"

[[17]]$test

        Pearson's product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = 248.8738, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9565292 0.9608246
sample estimates:
      cor
0.9587316



[[18]]
[[18]]$text
[1] "Stuttgard-Echterdingen vs. Kahler Asten"

[[18]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 90.9818, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7658507 0.7869359
sample estimates:
      cor
0.7766107



[[19]]
[[19]]$text
[1] "Stuttgard-Echterdingen vs. Hohenpeissenberg"

[[19]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 120.88, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8461157 0.8605438
sample estimates:
      cor
0.8534933



[[20]]
[[20]]$text
[1] "Stuttgard-Echterdingen vs. Helgoland"

[[20]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 49.8023, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5408353 0.5773331
sample estimates:
      cor
0.5593552
```



```
[[21]]
[[21]]$text
[1] "Stuttgard-Echterdingen vs. Frankfurt/Main Flughafen"

[[21]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 171.8855, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9146399 0.9229115
sample estimates:
      cor
0.9188766



[[22]]
[[22]]$text
[1] "Stuttgard-Echterdingen vs. DÃ¼sseldorf"

[[22]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 98.0514, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7891503 0.8083650
sample estimates:
      cor
0.7989615



[[23]]
[[23]]$text
[1] "Stuttgard-Echterdingen vs. Berlin-Tempelhof"

[[23]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 76.1554, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7049970 0.7307264
sample estimates:
     cor
0.718107



[[24]]
[[24]]$text
[1] "Stuttgard-Echterdingen vs. Aachen"

[[24]]$test

        Pearson's product-moment correlation
```

```
data:  messwertref and messwertvergleich
t = 92.394, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7707660 0.7914608
sample estimates:
      cor
0.7813281



[[25]]
[[25]]$text
[1] "Rostock-WarnemÃ¼nde vs. Zugspitze"

[[25]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 40.7453, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4626985 0.5034055
sample estimates:
      cor
0.4833132



[[26]]
[[26]]$text
[1] "Rostock-WarnemÃ¼nde vs. Stuttgard-Echterdingen"

[[26]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 55.3237, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5825228 0.6165317
sample estimates:
     cor
0.599798



[[27]]
[[27]]$text
[1] "Rostock-WarnemÃ¼nde vs. Rostock-WarnemÃ¼nde"

[[27]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1
```



```



[[28]]
[[28]]$text
[1] "Rostock-WarnemÃ¼nde vs. Konstanz"

[[28]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 43.1127, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4843326 0.5239340
sample estimates:
      cor
0.5043985



[[29]]
[[29]]$text
[1] "Rostock-WarnemÃ¼nde vs. Karlsruhe"

[[29]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 55.6406, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5847853 0.6186543
sample estimates:
      cor
0.6019905



[[30]]
[[30]]$text
[1] "Rostock-WarnemÃ¼nde vs. Kahler Asten"

[[30]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 72.5512, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6872695 0.7142859
sample estimates:
      cor
0.7010291



[[31]]
[[31]]$text
[1] "Rostock-WarnemÃ¼nde vs. Hohenpeissenberg"

[[31]]$test
```



```
        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 51.4542, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.553763 0.589507
sample estimates:
      cor
0.5719064



[[32]]
[[32]]$text
[1] "Rostock-WarnemÃ¼nde vs. Helgoland"

[[32]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 99.7747, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7943602 0.8131497
sample estimates:
      cor
0.8039555



[[33]]
[[33]]$text
[1] "Rostock-WarnemÃ¼nde vs. Frankfurt/Main Flughafen"

[[33]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 64.6457, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6436009 0.6736602
sample estimates:
      cor
0.6588935



[[34]]
[[34]]$text
[1] "Rostock-WarnemÃ¼nde vs. DÃ¼sseldorf"

[[34]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 70.682, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6775586 0.7052674
sample estimates:
      cor
```



```
0.6916675



[[35]]
[[35]]$text
[1] "Rostock-WarnemÃ¼nde vs. Berlin-Tempelhof"

[[35]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 137.165, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8745123 0.8864417
sample estimates:
      cor
0.8806165



[[36]]
[[36]]$text
[1] "Rostock-WarnemÃ¼nde vs. Aachen"

[[36]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 63.0163, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6337136 0.6644366
sample estimates:
    cor
0.64934



[[37]]
[[37]]$text
[1] "Konstanz vs. Zugspitze"

[[37]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 63.6886, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6378318 0.6682795
sample estimates:
      cor
0.6533197



[[38]]
[[38]]$text
[1] "Konstanz vs. Stuttgard-Echterdingen"

[[38]]$test
```

```
        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 176.4764, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9185194 0.9264295
sample estimates:
      cor
0.9225714



[[39]]
[[39]]$text
[1] "Konstanz vs. Rostock-WarnemÃ¼nde"

[[39]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 43.1127, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4843326 0.5239340
sample estimates:
      cor
0.5043985



[[40]]
[[40]]$text
[1] "Konstanz vs. Konstanz"

[[40]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 4952888770, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[41]]
[[41]]$text
[1] "Konstanz vs. Karlsruhe"

[[41]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 150.7233, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8928487 0.9031251
sample estimates:
```



```
      cor
0.8981094



[[42]]
[[42]]$text
[1] "Konstanz vs. Kahler Asten"

[[42]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 72.18, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6853700 0.7125226
sample estimates:
      cor
0.6991983



[[43]]
[[43]]$text
[1] "Konstanz vs. Hohenpeissenberg"

[[43]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 110.4685, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8231213 0.8395179
sample estimates:
      cor
0.8315006



[[44]]
[[44]]$text
[1] "Konstanz vs. Helgoland"

[[44]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 39.1527, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4476541 0.4891028
sample estimates:
      cor
0.4686364



[[45]]
[[45]]$text
[1] "Konstanz vs. Frankfurt/Main Flughafen"
```



```
[[45]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 115.911, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.835687 0.851014
sample estimates:
      cor
0.8435222



[[46]]
[[46]]$text
[1] "Konstanz vs. DÃ¼sseldorf"

[[46]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 75.7649, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7031378 0.7290035
sample estimates:
      cor
0.7163166



[[47]]
[[47]]$text
[1] "Konstanz vs. Berlin-Tempelhof"

[[47]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 58.7729, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6064256 0.6389315
sample estimates:
      cor
0.6229474



[[48]]
[[48]]$text
[1] "Konstanz vs. Aachen"

[[48]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 74.0363, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6947296 0.7212080
```



```
sample estimates:
      cor
0.7082178



[[49]]
[[49]]$text
[1] "Karlsruhe vs. Zugspitze"

[[49]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 60.5167, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6179150 0.6496789
sample estimates:
      cor
0.6340643



[[50]]
[[50]]$text
[1] "Karlsruhe vs. Stuttgard-Echterdingen"

[[50]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 248.8738, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9565292 0.9608246
sample estimates:
      cor
0.9587316



[[51]]
[[51]]$text
[1] "Karlsruhe vs. Rostock-WarnemÃ¼nde"

[[51]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 55.6406, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5847853 0.6186543
sample estimates:
      cor
0.6019905



[[52]]
[[52]]$text
[1] "Karlsruhe vs. Konstanz"
```

```
[[52]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 150.7233, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8928487 0.9031251
sample estimates:
      cor
0.8981094



[[53]]
[[53]]$text
[1] "Karlsruhe vs. Karlsruhe"

[[53]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[54]]
[[54]]$text
[1] "Karlsruhe vs. Kahler Asten"

[[54]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 94.8095, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7788644 0.7989111
sample estimates:
      cor
0.7890978



[[55]]
[[55]]$text
[1] "Karlsruhe vs. Hohenpeissenberg"

[[55]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 101.6663, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
```



```
 0.7998831 0.8182191
sample estimates:
      cor
0.8092481



[[56]]
[[56]]$text
[1] "Karlsruhe vs. Helgoland"

[[56]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 51.8629, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5569005 0.5924591
sample estimates:
      cor
0.5749512



[[57]]
[[57]]$text
[1] "Karlsruhe vs. Frankfurt/Main Flughafen"

[[57]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 211.7764, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9413500 0.9471048
sample estimates:
      cor
0.9442996



[[58]]
[[58]]$text
[1] "Karlsruhe vs. DÃ¼sseldorf"

[[58]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 107.0378, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8145208 0.8316411
sample estimates:
     cor
0.823268



[[59]]
[[59]]$text
```



```
[1] "Karlsruhe vs. Berlin-Tempelhof"

[[59]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 74.6742, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6978665 0.7241172
sample estimates:
      cor
0.7112397



[[60]]
[[60]]$text
[1] "Karlsruhe vs. Aachen"

[[60]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 101.1032, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7982599 0.8167295
sample estimates:
      cor
0.8076928



[[61]]
[[61]]$text
[1] "Kahler Asten vs. Zugspitze"

[[61]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 73.8945, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6940271 0.7205564
sample estimates:
     cor
0.707541



[[62]]
[[62]]$text
[1] "Kahler Asten vs. Stuttgart-Echterdingen"

[[62]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 90.9818, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
```



```
95 percent confidence interval:
 0.7658507 0.7869359
sample estimates:
      cor
0.7766107



[[63]]
[[63]]$text
[1] "Kahler Asten vs. Rostock-WarnemÃ¼nde"

[[63]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 72.5512, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6872695 0.7142859
sample estimates:
      cor
0.7010291



[[64]]
[[64]]$text
[1] "Kahler Asten vs. Konstanz"

[[64]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 72.18, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6853700 0.7125226
sample estimates:
      cor
0.6991983



[[65]]
[[65]]$text
[1] "Kahler Asten vs. Karlsruhe"

[[65]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 94.8095, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7788644 0.7989111
sample estimates:
      cor
0.7890978



[[66]]
```

```
[[66]]$text
[1] "Kahler Asten vs. Kahler Asten"

[[66]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 4952888770, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[67]]
[[67]]$text
[1] "Kahler Asten vs. Hohenpeissenberg"

[[67]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 99.0897, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7923100 0.8112672
sample estimates:
      cor
0.8019904



[[68]]
[[68]]$text
[1] "Kahler Asten vs. Helgoland"

[[68]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 76.8131, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7080960 0.7335973
sample estimates:
      cor
0.7210908



[[69]]
[[69]]$text
[1] "Kahler Asten vs. Frankfurt/Main Flughafen"

[[69]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 110.4204, df = 5447, p-value < 2.2e-16
```



```
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8230045 0.8394110
sample estimates:
      cor
0.8313888



[[70]]
[[70]]$text
[1] "Kahler Asten vs. DÃ¼sseldorf"

[[70]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 152.7487, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8952574 0.9053143
sample estimates:
     cor
0.900406



[[71]]
[[71]]$text
[1] "Kahler Asten vs. Berlin-Tempelhof"

[[71]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 90.5911, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7644665 0.7856612
sample estimates:
     cor
0.775282



[[72]]
[[72]]$text
[1] "Kahler Asten vs. Aachen"

[[72]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 154.0733, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8967913 0.9067082
sample estimates:
      cor
0.9018685
```



```
[[73]]
[[73]]$text
[1] "Hohenpeissenberg vs. Zugspitze"

[[73]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 103.4335, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8048651 0.8227896
sample estimates:
     cor
0.814021



[[74]]
[[74]]$text
[1] "Hohenpeissenberg vs. Stuttgard-Echterdingen"

[[74]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 120.88, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8461157 0.8605438
sample estimates:
      cor
0.8534933



[[75]]
[[75]]$text
[1] "Hohenpeissenberg vs. Rostock-WarnemÃ¼nde"

[[75]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 51.4542, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.553763 0.589507
sample estimates:
      cor
0.5719064



[[76]]
[[76]]$text
[1] "Hohenpeissenberg vs. Konstanz"

[[76]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
```



```
t = 110.4685, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8231213 0.8395179
sample estimates:
      cor
0.8315006



[[77]]
[[77]]$text
[1] "Hohenpeissenberg vs. Karlsruhe"

[[77]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 101.6663, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7998831 0.8182191
sample estimates:
      cor
0.8092481



[[78]]
[[78]]$text
[1] "Hohenpeissenberg vs. Kahler Asten"

[[78]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 99.0897, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7923100 0.8112672
sample estimates:
      cor
0.8019904



[[79]]
[[79]]$text
[1] "Hohenpeissenberg vs. Hohenpeissenberg"

[[79]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1
```

```
[[80]]
[[80]]$text
[1] "Hohenpeissenberg vs. Helgoland"

[[80]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 45.5314, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5055434 0.5440163
sample estimates:
      cor
0.525048



[[81]]
[[81]]$text
[1] "Hohenpeissenberg vs. Frankfurt/Main Flughafen"

[[81]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 91.5871, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7679741 0.7888909
sample estimates:
      cor
0.7786487



[[82]]
[[82]]$text
[1] "Hohenpeissenberg vs. DÃ¼sseldorf"

[[82]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 85.48, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7453369 0.7680266
sample estimates:
      cor
0.7569098



[[83]]
[[83]]$text
[1] "Hohenpeissenberg vs. Berlin-Tempelhof"

[[83]]$test

        Pearson's product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = 67.4768, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6600370 0.6889724
sample estimates:
      cor
0.6747639



[[84]]
[[84]]$text
[1] "Hohenpeissenberg vs. Aachen"

[[84]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 89.5078, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7605720 0.7820738
sample estimates:
      cor
0.7715431



[[85]]
[[85]]$text
[1] "Helgoland vs. Zugspitze"

[[85]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 38.0857, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4373534 0.4792970
sample estimates:
      cor
0.4585806



[[86]]
[[86]]$text
[1] "Helgoland vs. Stuttgard-Echterdingen"

[[86]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 49.8023, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5408353 0.5773331
sample estimates:
      cor
0.5593552
```



```
[[87]]
[[87]]$text
[1] "Helgoland vs. Rostock-WarnemÃ¼nde"

[[87]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 99.7747, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7943602 0.8131497
sample estimates:
      cor
0.8039555



[[88]]
[[88]]$text
[1] "Helgoland vs. Konstanz"

[[88]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 39.1527, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.4476541 0.4891028
sample estimates:
      cor
0.4686364



[[89]]
[[89]]$text
[1] "Helgoland vs. Karlsruhe"

[[89]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 51.8629, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5569005 0.5924591
sample estimates:
      cor
0.5749512



[[90]]
[[90]]$text
[1] "Helgoland vs. Kahler Asten"

[[90]]$test

        Pearson's product-moment correlation
```



```
data:  messwertref and messwertvergleich
t = 76.8131, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7080960 0.7335973
sample estimates:
      cor
0.7210908



[[91]]
[[91]]$text
[1] "Helgoland vs. Hohenpeissenberg"

[[91]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 45.5314, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5055434 0.5440163
sample estimates:
      cor
0.525048



[[92]]
[[92]]$text
[1] "Helgoland vs. Helgoland"

[[92]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 4952888770, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[93]]
[[93]]$text
[1] "Helgoland vs. Frankfurt/Main Flughafen"

[[93]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 59.3652, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6103721 0.6426246
sample estimates:
      cor
0.6267667
```

```
[[94]]
[[94]]$text
[1] "Helgoland vs. DÃ¼sseldorf"

[[94]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 80.807, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7260609 0.7502223
sample estimates:
      cor
0.7383784


[[95]]
[[95]]$text
[1] "Helgoland vs. Berlin-Tempelhof"

[[95]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 82.1779, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7319038 0.7556228
sample estimates:
      cor
0.7439976


[[96]]
[[96]]$text
[1] "Helgoland vs. Aachen"

[[96]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 73.5868, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6924950 0.7191352
sample estimates:
      cor
0.7060648


[[97]]
[[97]]$text
[1] "Frankfurt/Main Flughafen vs. Zugspitze"

[[97]]$test
```



```
        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 57.0165, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5944527 0.6277183
sample estimates:
      cor
0.6113555


[[98]]
[[98]]$text
[1] "Frankfurt/Main Flughafen vs. Stuttgard-Echterdingen"

[[98]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 171.8855, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9146399 0.9229115
sample estimates:
      cor
0.9188766


[[99]]
[[99]]$text
[1] "Frankfurt/Main Flughafen vs. Rostock-WarnemÃ¼nde"

[[99]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 64.6457, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6436009 0.6736602
sample estimates:
      cor
0.6588935


[[100]]
[[100]]$text
[1] "Frankfurt/Main Flughafen vs. Konstanz"

[[100]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 115.911, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.835687 0.851014
sample estimates:
      cor
```



```
0.8435222


[[101]]
[[101]]$text
[1] "Frankfurt/Main Flughafen vs. Karlsruhe"

[[101]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 211.7764, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9413500 0.9471048
sample estimates:
      cor
0.9442996


[[102]]
[[102]]$text
[1] "Frankfurt/Main Flughafen vs. Kahler Asten"

[[102]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 110.4204, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8230045 0.8394110
sample estimates:
      cor
0.8313888


[[103]]
[[103]]$text
[1] "Frankfurt/Main Flughafen vs. Hohenpeissenberg"

[[103]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 91.5871, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7679741 0.7888909
sample estimates:
      cor
0.7786487


[[104]]
[[104]]$text
[1] "Frankfurt/Main Flughafen vs. Helgoland"

[[104]]$test
```



```
        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 59.3652, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6103721 0.6426246
sample estimates:
      cor
0.6267667


[[105]]
[[105]]$text
[1] "Frankfurt/Main Flughafen vs. Frankfurt/Main Flughafen"

[[105]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1


[[106]]
[[106]]$text
[1] "Frankfurt/Main Flughafen vs. DÃ¼sseldorf"

[[106]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 123.3255, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8509152 0.8649262
sample estimates:
      cor
0.8580803


[[107]]
[[107]]$text
[1] "Frankfurt/Main Flughafen vs. Berlin-Tempelhof"

[[107]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 88.6619, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7574726 0.7792179
sample estimates:
```

```
        cor
0.7685671



[[108]]
[[108]]$text
[1] "Frankfurt/Main Flughafen vs. Aachen"

[[108]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 108.0027, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8169960 0.8339087
sample estimates:
        cor
0.8256377



[[109]]
[[109]]$text
[1] "DÃ¼sseldorf vs. Zugspitze"

[[109]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 58.931, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.607484 0.639922
sample estimates:
        cor
0.6239717



[[110]]
[[110]]$text
[1] "DÃ¼sseldorf vs. Stuttgard-Echterdingen"

[[110]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 98.0514, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7891503 0.8083650
sample estimates:
        cor
0.7989615



[[111]]
[[111]]$text
[1] "DÃ¼sseldorf vs. Rostock-WarnemÃ¼nde"
```



```
[[111]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 70.682, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6775586 0.7052674
sample estimates:
      cor
0.6916675



[[112]]
[[112]]$text
[1] "DÃ¼sseldorf vs. Konstanz"

[[112]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 75.7649, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7031378 0.7290035
sample estimates:
      cor
0.7163166



[[113]]
[[113]]$text
[1] "DÃ¼sseldorf vs. Karlsruhe"

[[113]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 107.0378, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8145208 0.8316411
sample estimates:
     cor
0.823268



[[114]]
[[114]]$text
[1] "DÃ¼sseldorf vs. Kahler Asten"

[[114]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 152.7487, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8952574 0.9053143
```



```
sample estimates:
      cor
0.900406



[[115]]
[[115]]$text
[1] "DÃ¼sseldorf vs. Hohenpeissenberg"

[[115]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 85.48, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7453369 0.7680266
sample estimates:
        cor
0.7569098



[[116]]
[[116]]$text
[1] "DÃ¼sseldorf vs. Helgoland"

[[116]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 80.807, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7260609 0.7502223
sample estimates:
        cor
0.7383784



[[117]]
[[117]]$text
[1] "DÃ¼sseldorf vs. Frankfurt/Main Flughafen"

[[117]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 123.3255, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8509152 0.8649262
sample estimates:
        cor
0.8580803



[[118]]
[[118]]$text
[1] "DÃ¼sseldorf vs. DÃ¼sseldorf"
```



```
[[118]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



[[119]]
[[119]]$text
[1] "DÃ¼sseldorf vs. Berlin-Tempelhof"

[[119]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 82.8612, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7347564 0.7582583
sample estimates:
      cor
0.7467404



[[120]]
[[120]]$text
[1] "DÃ¼sseldorf vs. Aachen"

[[120]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 269.7881, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9626618 0.9663617
sample estimates:
      cor
0.9645591



[[121]]
[[121]]$text
[1] "Berlin-Tempelhof vs. Zugspitze"

[[121]]$test

        Pearson’s product-moment correlation

data:  messwertref and messwertvergleich
t = 50.7033, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
```

```
  0.5479356 0.5840214
 sample estimates:
       cor
 0.5662498



 [[122]]
 [[122]]$text
 [1] "Berlin-Tempelhof vs. Stuttgard-Echterdingen"

 [[122]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 76.1554, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.7049970 0.7307264
 sample estimates:
     cor
 0.718107



 [[123]]
 [[123]]$text
 [1] "Berlin-Tempelhof vs. Rostock-WarnemÃ¼nde"

 [[123]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 137.165, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.8745123 0.8864417
 sample estimates:
       cor
 0.8806165



 [[124]]
 [[124]]$text
 [1] "Berlin-Tempelhof vs. Konstanz"

 [[124]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 58.7729, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.6064256 0.6389315
 sample estimates:
       cor
 0.6229474



 [[125]]
 [[125]]$text
```



```
 [1] "Berlin-Tempelhof vs. Karlsruhe"

 [[125]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 74.6742, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.6978665 0.7241172
 sample estimates:
       cor
 0.7112397



 [[126]]
 [[126]]$text
 [1] "Berlin-Tempelhof vs. Kahler Asten"

 [[126]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 90.5911, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.7644665 0.7856612
 sample estimates:
      cor
 0.775282



 [[127]]
 [[127]]$text
 [1] "Berlin-Tempelhof vs. Hohenpeissenberg"

 [[127]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 67.4768, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.6600370 0.6889724
 sample estimates:
       cor
 0.6747639



 [[128]]
 [[128]]$text
 [1] "Berlin-Tempelhof vs. Helgoland"

 [[128]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 82.1779, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
```



```
 95 percent confidence interval:
  0.7319038 0.7556228
 sample estimates:
       cor
 0.7439976



 [[129]]
 [[129]]$text
 [1] "Berlin-Tempelhof vs. Frankfurt/Main Flughafen"

 [[129]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 88.6619, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.7574726 0.7792179
 sample estimates:
       cor
 0.7685671



 [[130]]
 [[130]]$text
 [1] "Berlin-Tempelhof vs. DÃ¼sseldorf"

 [[130]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 82.8612, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.7347564 0.7582583
 sample estimates:
       cor
 0.7467404



 [[131]]
 [[131]]$text
 [1] "Berlin-Tempelhof vs. Berlin-Tempelhof"

 [[131]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 4952888770, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  1 1
 sample estimates:
 cor
   1



 [[132]]
```



```
 [[132]]$text
 [1] "Berlin-Tempelhof vs. Aachen"

 [[132]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 72.7097, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.6880764 0.7150349
 sample estimates:
       cor
 0.7018068



 [[133]]
 [[133]]$text
 [1] "Aachen vs. Zugspitze"

 [[133]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 62.3978, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.6298768 0.6608547
 sample estimates:
       cor
 0.6456313



 [[134]]
 [[134]]$text
 [1] "Aachen vs. Stuttgard-Echterdingen"

 [[134]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 92.394, df = 5447, p-value < 2.2e-16
 alternative hypothesis: true correlation is not equal to 0
 95 percent confidence interval:
  0.7707660 0.7914608
 sample estimates:
       cor
 0.7813281



 [[135]]
 [[135]]$text
 [1] "Aachen vs. Rostock-WarnemÃ¼nde"

 [[135]]$test

         Pearson's product-moment correlation

 data:  messwertref and messwertvergleich
 t = 63.0163, df = 5447, p-value < 2.2e-16
```

```
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6337136 0.6644366
sample estimates:
      cor
0.64934



[[136]]
[[136]]$text
[1] "Aachen vs. Konstanz"

[[136]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 74.0363, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6947296 0.7212080
sample estimates:
      cor
0.7082178



[[137]]
[[137]]$text
[1] "Aachen vs. Karlsruhe"

[[137]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 101.1032, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7982599 0.8167295
sample estimates:
      cor
0.8076928



[[138]]
[[138]]$text
[1] "Aachen vs. Kahler Asten"

[[138]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 154.0733, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8967913 0.9067082
sample estimates:
      cor
0.9018685
```



```
[[139]]
[[139]]$text
[1] "Aachen vs. Hohenpeissenberg"

[[139]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 89.5078, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.7605720 0.7820738
sample estimates:
      cor
0.7715431



[[140]]
[[140]]$text
[1] "Aachen vs. Helgoland"

[[140]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 73.5868, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6924950 0.7191352
sample estimates:
      cor
0.7060648



[[141]]
[[141]]$text
[1] "Aachen vs. Frankfurt/Main Flughafen"

[[141]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 108.0027, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.8169960 0.8339087
sample estimates:
      cor
0.8256377



[[142]]
[[142]]$text
[1] "Aachen vs. DÃ¼sseldorf"

[[142]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
```



```
t = 269.7881, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.9626618 0.9663617
sample estimates:
      cor
0.9645591



[[143]]
[[143]]$text
[1] "Aachen vs. Berlin-Tempelhof"

[[143]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = 72.7097, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6880764 0.7150349
sample estimates:
      cor
0.7018068



[[144]]
[[144]]$text
[1] "Aachen vs. Aachen"

[[144]]$test

        Pearson's product-moment correlation

data:  messwertref and messwertvergleich
t = Inf, df = 5447, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 1 1
sample estimates:
cor
  1



>
> #pos <- grep("Altenrhein", nichtsig)
> #rev(pos)
> #for(pos in rev(pos)) { nichtsig[pos] <- NA }
>
> # Test ob man auch was nicht signifikantes produzieren kann
> #randomnumbers <- rnorm(length(messwertref), mean=mean(messwertref), sd=sd(mes
swertref))
>
```