Hypothese 4

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Deskriptive Statistik - Einzelflüge

```
## $`Flug: Amsterdam-AUA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ----------------------------------------
##                             Preis    Device
##   ----------------------------------------
##     N                          40        40
##     Missing                     0         0
##     Mean                     97.8
##     Median                   88.0
##     Standard deviation       15.3
##     Minimum                  87.0
##     Maximum                   141
##   ----------------------------------------
##
##
## $`Flug: Berlin-AUA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ----------------------------------------
##                             Preis    Device
##   ----------------------------------------
##     N                          40        40
##     Missing                     0         0
##     Mean                     92.8
##     Median                   88.0
##     Standard deviation       12.8
##     Minimum                  87.0
##     Maximum                   123
##   ----------------------------------------
##
##
## $`Flug: Lissabon-AUA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ----------------------------------------
##                             Preis    Device
##   ----------------------------------------
##     N                          40        40
```

```
##    Missing                   0         0
##    Mean                    257
##    Median                  253
##    Standard deviation     8.17
##    Minimum                 252
##    Maximum                 273
##   -----------------------------------------
##
##
## $`Flug: London-AUA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   -----------------------------------------
##                           Preis    Device
##   -----------------------------------------
##    N                        40        40
##    Missing                   0         0
##    Mean                    144
##    Median                  150
##    Standard deviation     37.8
##    Minimum                 105
##    Maximum                 204
##   -----------------------------------------
##
##
## $`Flug: Bangkok-AUA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   -----------------------------------------
##                           Preis    Device
##   -----------------------------------------
##    N                        40        40
##    Missing                   0         0
##    Mean                    800
##    Median                  810
##    Standard deviation     79.1
##    Minimum                 666
##    Maximum                 932
##   -----------------------------------------
##
##
## $`Flug: New York-AUA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   -----------------------------------------
##                           Preis    Device
##   -----------------------------------------
##    N                        40        40
```

```
##      Missing                    0          0
##      Mean                     592
##      Median                   553
##      Standard deviation       104
##      Minimum                  473
##      Maximum                  738
##   ----------------------------------------
##
##
## $`Flug: Tokio-AUA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ----------------------------------------
##                             Preis    Device
##   ----------------------------------------
##      N                        40         40
##      Missing                   0          0
##      Mean                    848
##      Median                  823
##      Standard deviation      116
##      Minimum                 747
##      Maximum                1169
##   ----------------------------------------
##
##
## $`Flug: Amsterdam-KLM`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ----------------------------------------
##                             Preis    Device
##   ----------------------------------------
##      N                        40         40
##      Missing                   0          0
##      Mean                    145
##      Median                  158
##      Standard deviation     30.7
##      Minimum                99.0
##      Maximum                 180
##   ----------------------------------------
##
##
## $`Flug: Berlin-EZY`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ----------------------------------------
##                             Preis    Device
##   ----------------------------------------
##      N                        40         40
```

```
##    Missing                      0           0
##    Mean                      64.3
##    Median                    64.5
##    Standard deviation        5.87
##    Minimum                   50.0
##    Maximum                   71.0
##   ------------------------------------------
##
##
## $`Flug: Lissabon-LDM`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ------------------------------------------
##                             Preis    Device
##   ------------------------------------------
##    N                          40          40
##    Missing                     0           0
##    Mean                      104
##    Median                    106
##    Standard deviation       19.1
##    Minimum                   66.0
##    Maximum                   134
##   ------------------------------------------
##
##
## $`Flug: London-BAW`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ------------------------------------------
##                             Preis    Device
##   ------------------------------------------
##    N                          40          40
##    Missing                     0           0
##    Mean                      111
##    Median                    112
##    Standard deviation       3.07
##    Minimum                   108
##    Maximum                   119
##   ------------------------------------------
##
##
## $`Flug: Bangkok-THA`
##
##   DESCRIPTIVES
##
##   Descriptives
##   ------------------------------------------
##                             Preis    Device
##   ------------------------------------------
##    N                          40          40
```
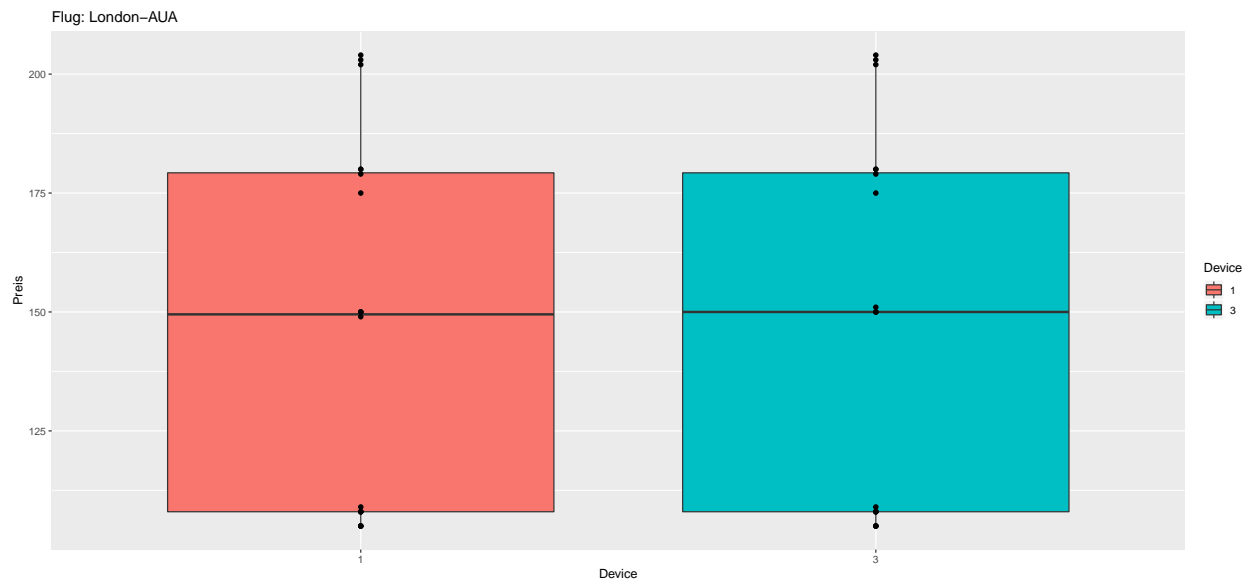
```
##      Missing                     0          0
##      Mean                      979
##      Median                    967
##      Standard deviation       87.4
##      Minimum                   864
##      Maximum                  1193
##    ----------------------------------------
##
##
## $`Flug: New York-UAL`
##
##   DESCRIPTIVES
##
##   Descriptives
##    ----------------------------------------
##                            Preis    Device
##    ----------------------------------------
##      N                       40         40
##      Missing                  0          0
##      Mean                    620
##      Median                  640
##      Standard deviation      130
##      Minimum                 430
##      Maximum                 767
##    ----------------------------------------
##
##
## $`Flug: Tokio-ANA`
##
##   DESCRIPTIVES
##
##   Descriptives
##    ----------------------------------------
##                            Preis    Device
##    ----------------------------------------
##      N                       40         40
##      Missing                  0          0
##      Mean                    687
##      Median                  656
##      Standard deviation     62.8
##      Minimum                 648
##      Maximum                 894
##    ----------------------------------------
```
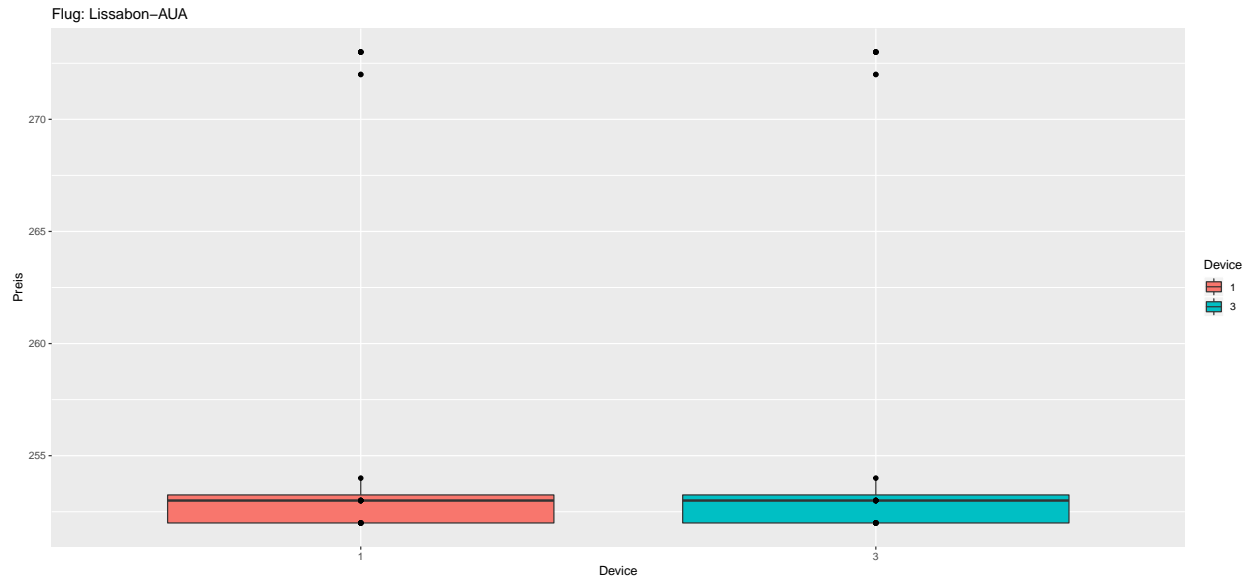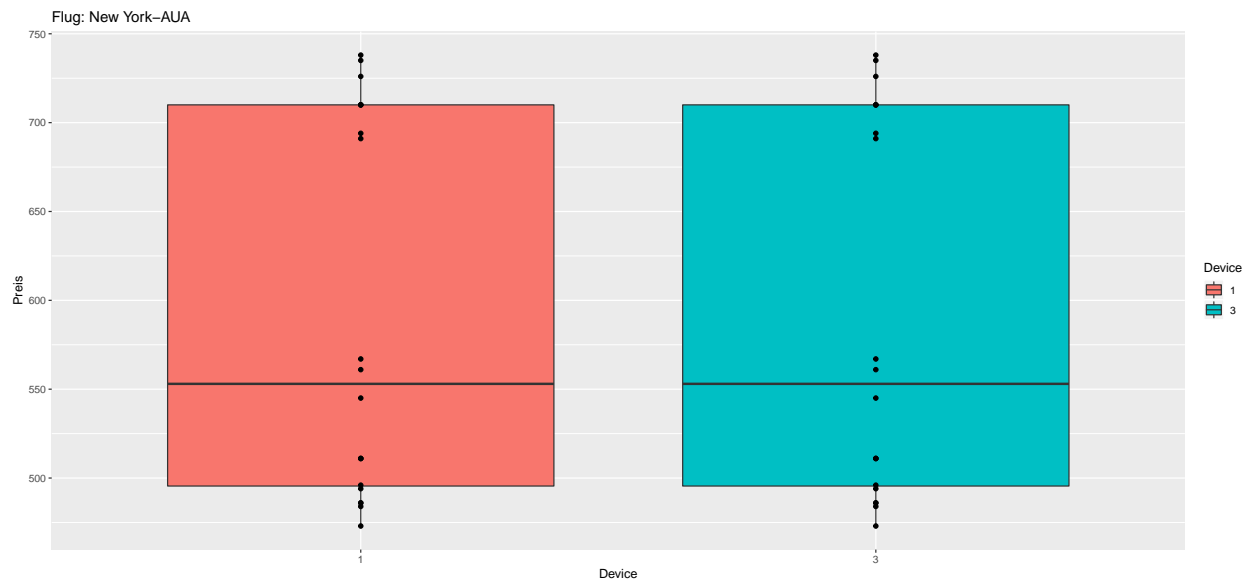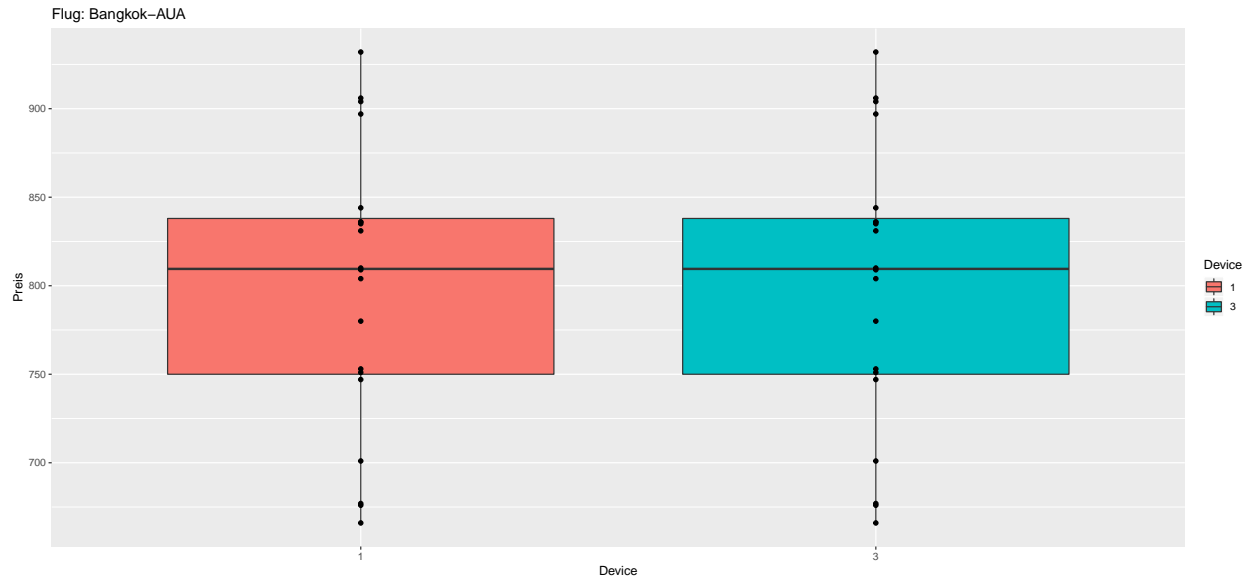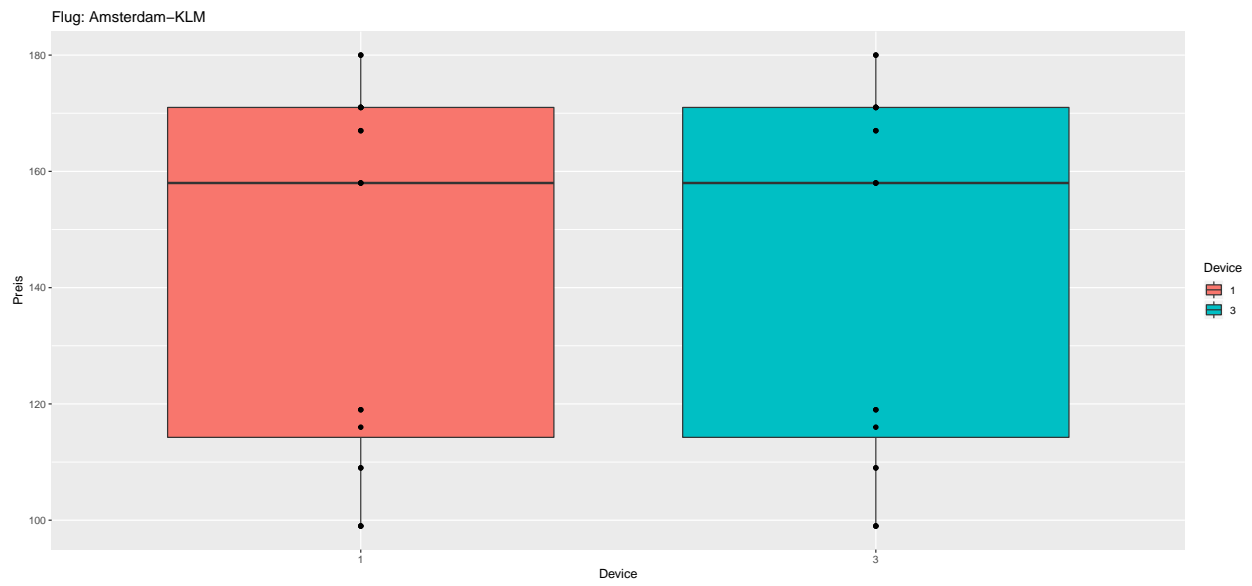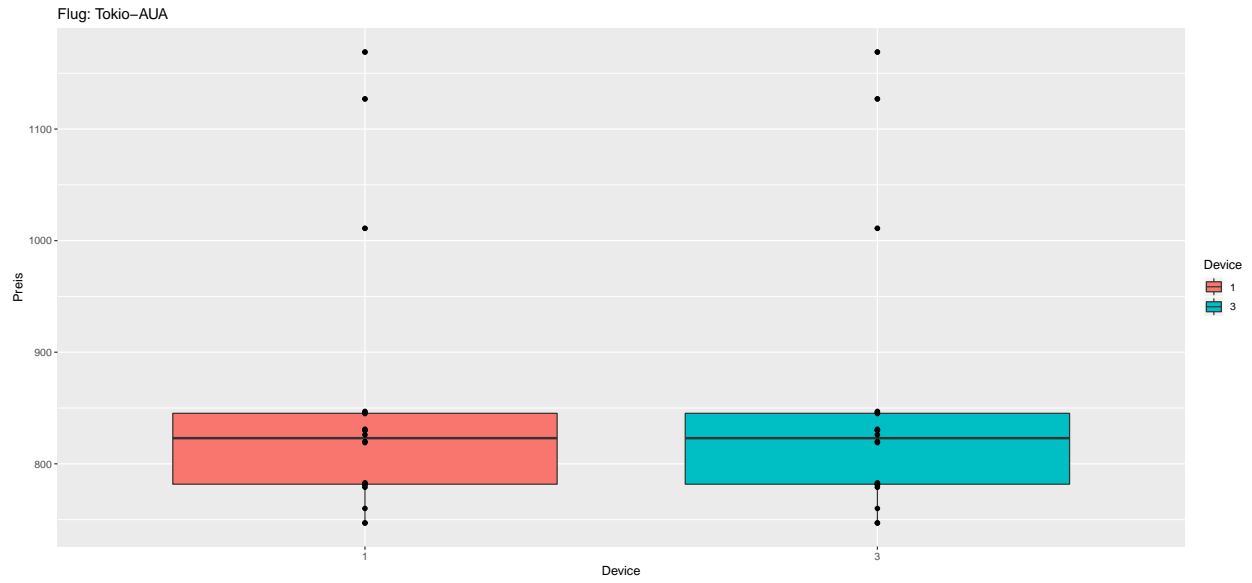
Box-Plot - Einzelflüge

Flug: Amsterdam–AUA

Flug: Berlin–AUA

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Flug: Tokio–AUA

Flug: Amsterdam–KLM

Flug: Berlin–EZY

Flug: Lissabon–LDM

Flug: London–BAW

Flug: Bangkok–THA

Flug: New York–UAL

Flug: Tokio–ANA
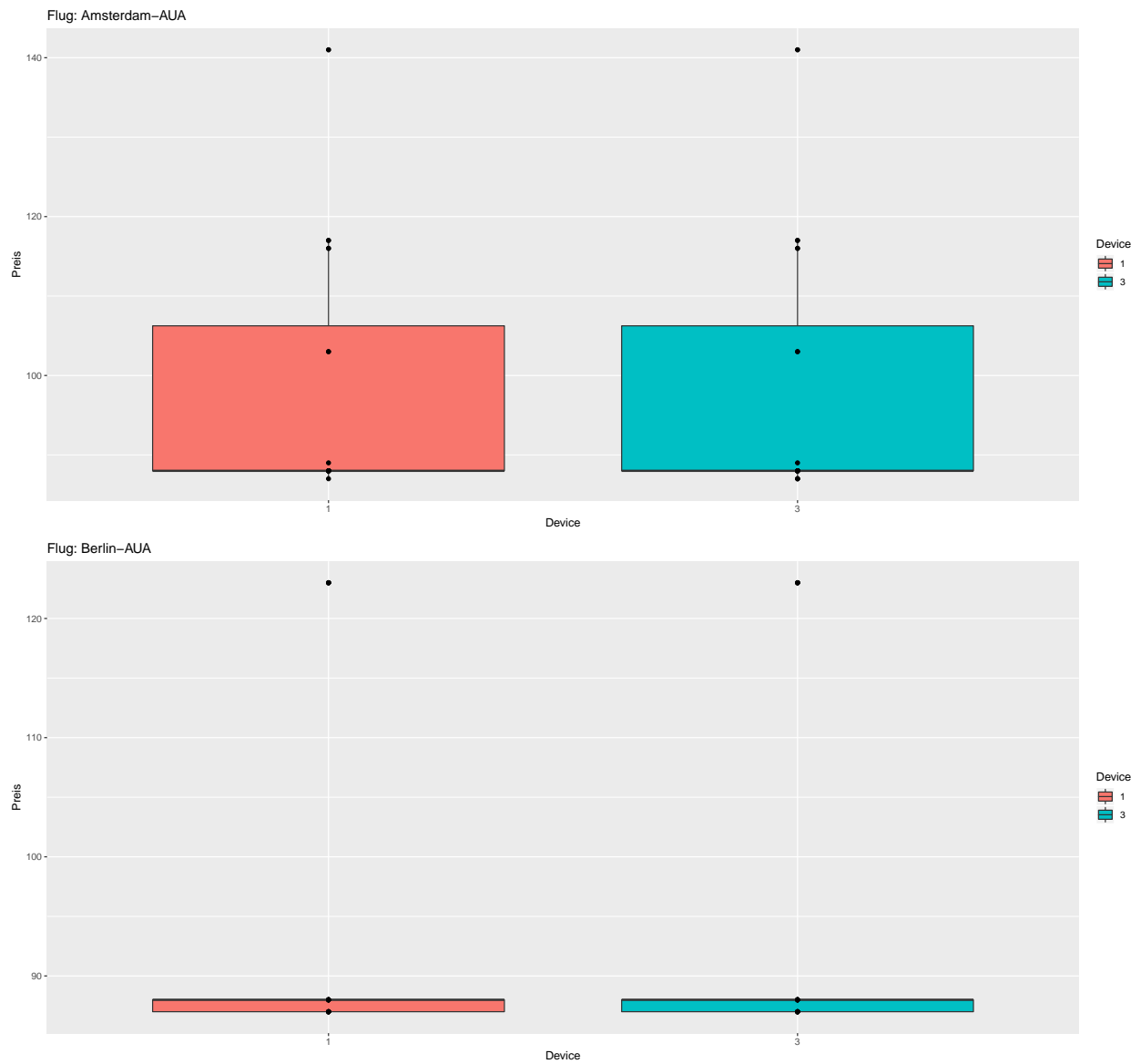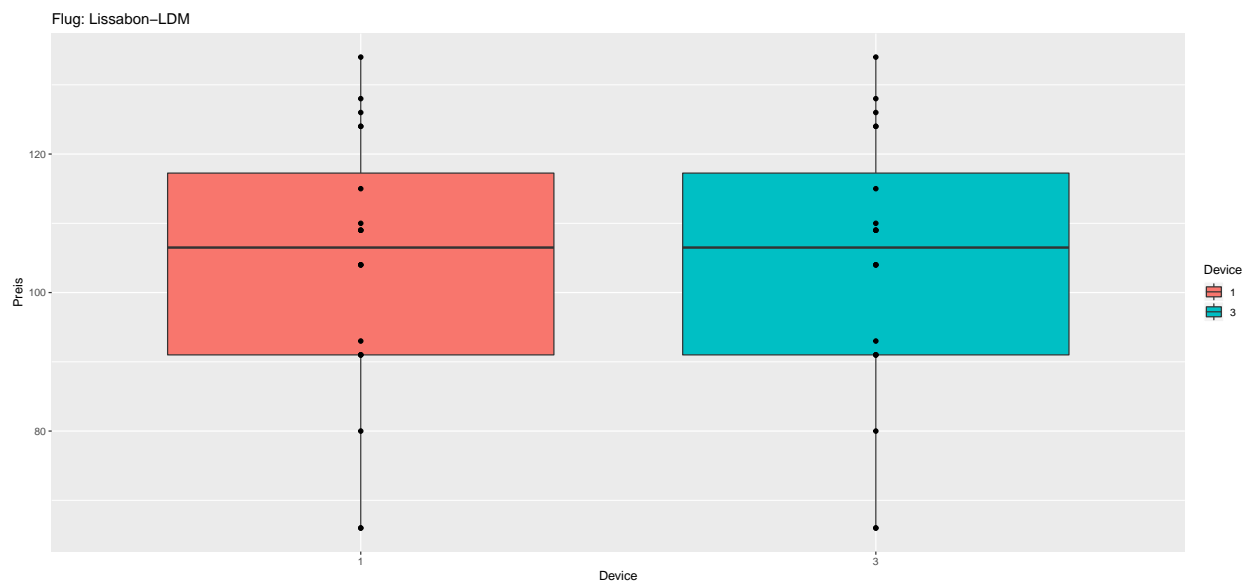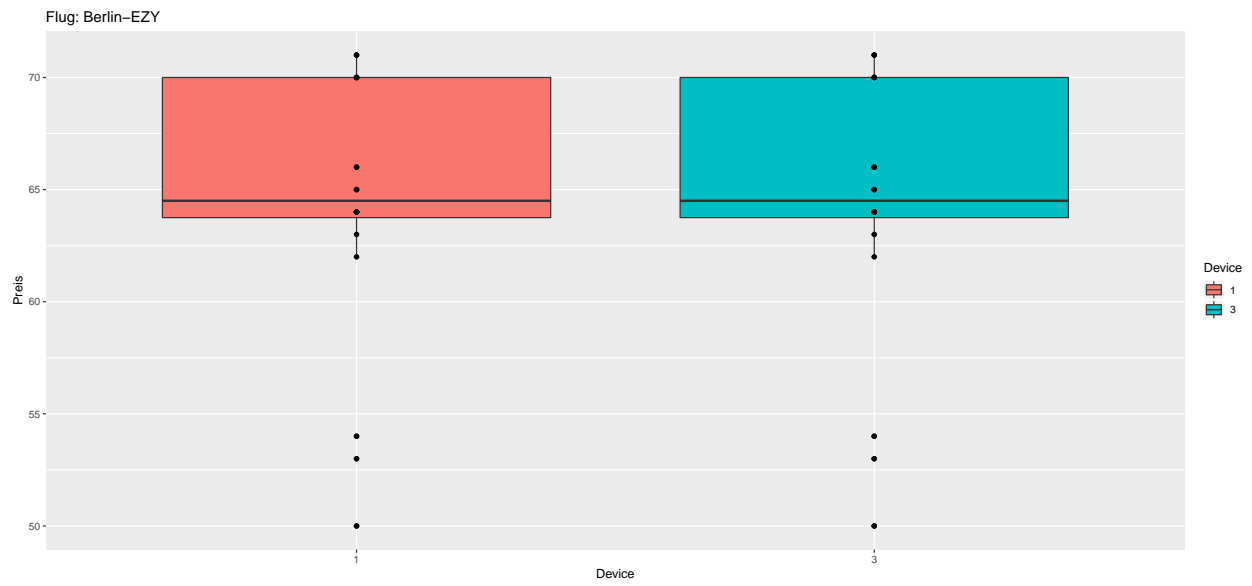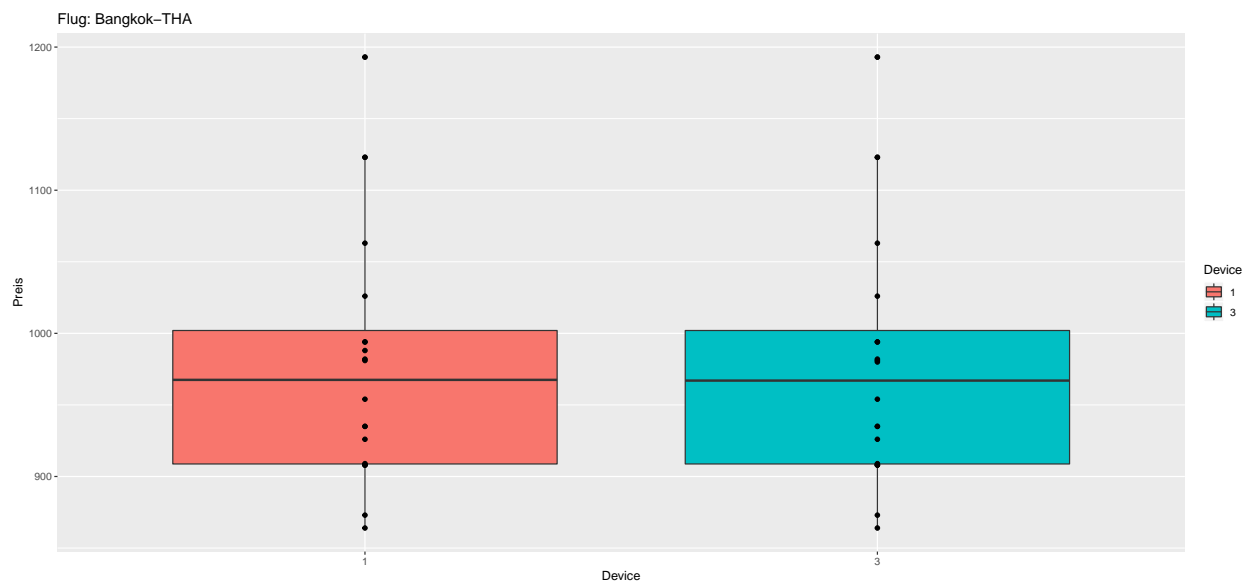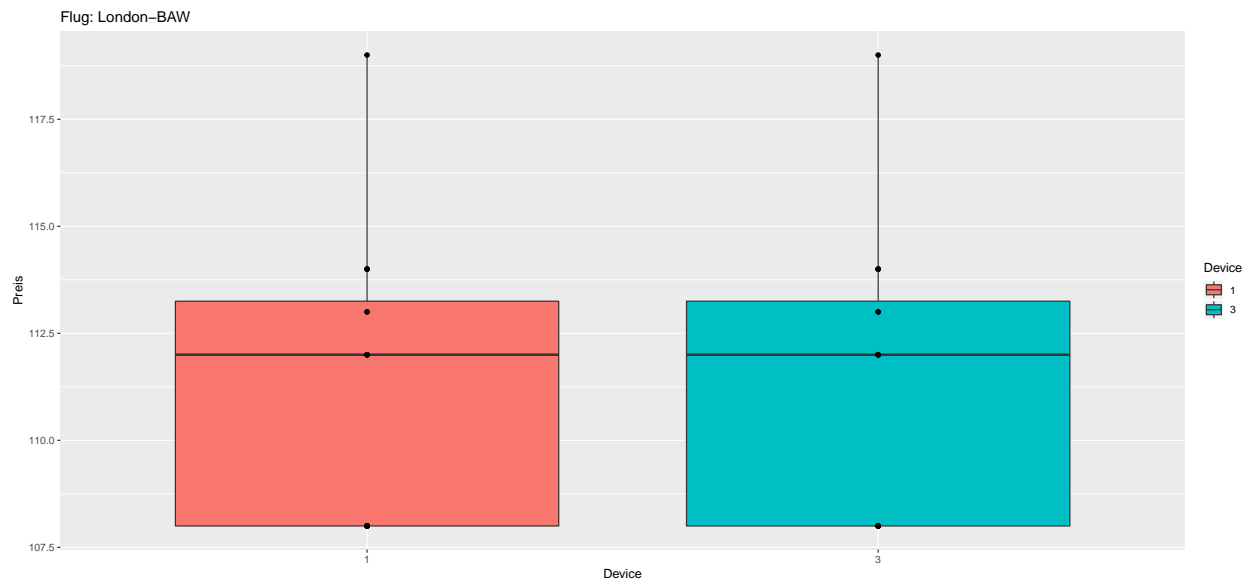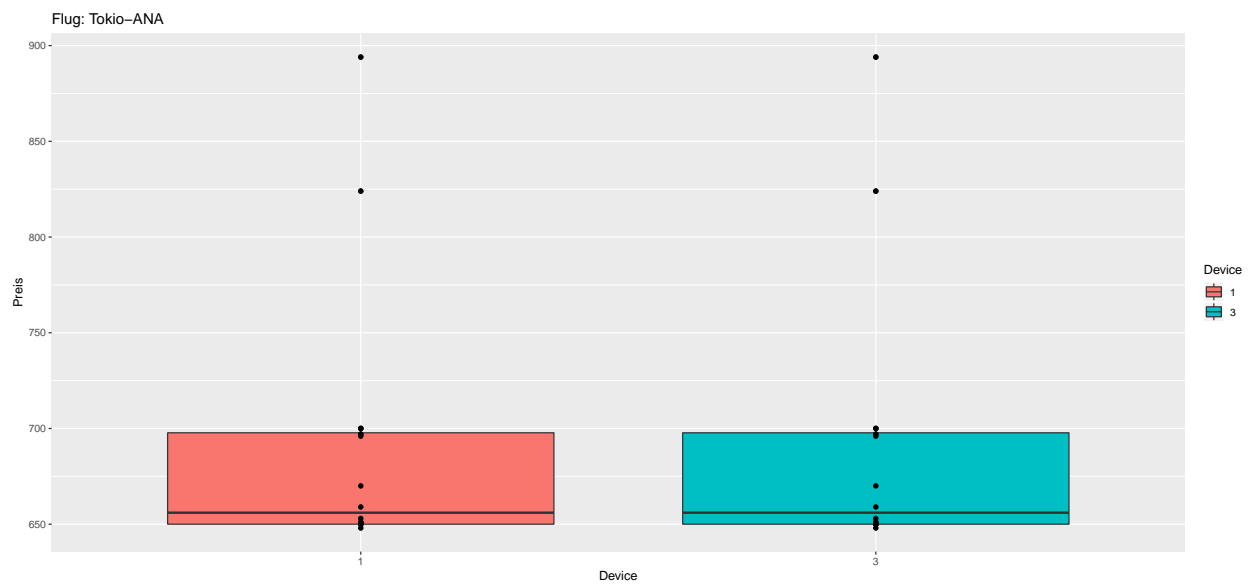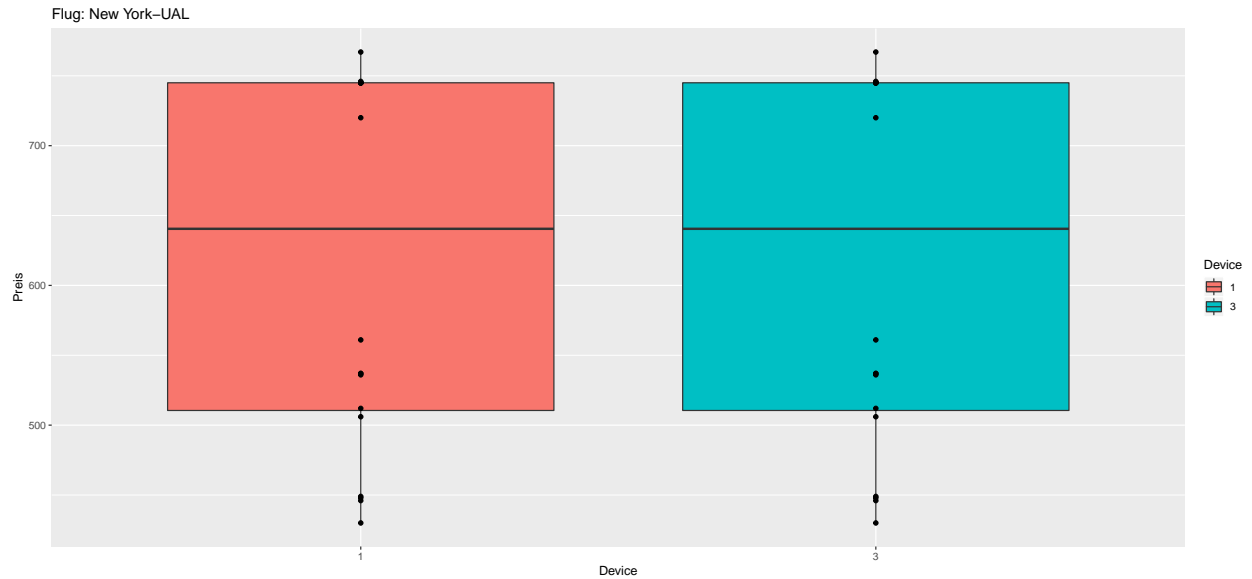
ANOVA

```
## $`Flug: Amsterdam-AUA`
##
##   ANOVA
##
##   ANOVA
##   --------------------------------------------------------------------------------
##                    Sum of Squares     df     Mean Square      F         p        <U+03B7>²p
##   --------------------------------------------------------------------------------
##     Device                  0.100      1           0.100    4.14e-4    0.984      0.000
##     Residuals            9182.300     38         241.639
##   --------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
```

```
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   ------------------------------------------------
##     Device    Mean    SE      Lower    Upper
##   ------------------------------------------------
##     1         97.9    3.48    90.8     105
##     3         97.8    3.48    90.7     105
##   ------------------------------------------------
##
##
##   $`Flug: Berlin-AUA`
##
##   ANOVA
##
##   ANOVA
##   ------------------------------------------------------------------------------------
##                     Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
##   ------------------------------------------------------------------------------------
##     Device                   0.00    1             0.00    1.26e-29   1.000    0.000
##     Residuals             6425.10    38          169.08
##   ------------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   ------------------------------------------------
##     Device    Mean    SE      Lower    Upper
##   ------------------------------------------------
##     1         92.9    2.91    87.0     98.7
##     3         92.9    2.91    87.0     98.7
##   ------------------------------------------------
##
##
##   $`Flug: Lissabon-AUA`
##
##   ANOVA
##
##   ANOVA
##   ------------------------------------------------------------------------------------
##                     Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
##   ------------------------------------------------------------------------------------
##     Device                   0.00    1             0.00    7.83e-29   1.000    0.000
##     Residuals             2605.10    38           68.56
##   ------------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
```

```
##
## Estimated Marginal Means - Device
## --------------------------------------------
## Device    Mean    SE     Lower    Upper
## --------------------------------------------
## 1          257    1.85    253      260
## 3          257    1.85    253      260
## --------------------------------------------
##
##
## $`Flug: London-AUA`
##
## ANOVA
##
## ANOVA
## ------------------------------------------------------------------------------------
##                  Sum of Squares    df    Mean Square    F         p        <U+03B7>²p
## ------------------------------------------------------------------------------------
## Device                0.1000       1         0.1000    6.82e-5    0.993     0.000
## Residuals         55720.3000      38      1466.3237
## ------------------------------------------------------------------------------------
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## --------------------------------------------
## Device    Mean    SE     Lower    Upper
## --------------------------------------------
## 1          144    8.56    127      161
## 3          144    8.56    127      162
## --------------------------------------------
##
##
## $`Flug: Bangkok-AUA`
##
## ANOVA
##
## ANOVA
## ------------------------------------------------------------------------------------
##                  Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
## ------------------------------------------------------------------------------------
## Device                0.00         1         0.00     3.81e-30   1.000     0.000
## Residuals        243751.50        38      6414.51
## ------------------------------------------------------------------------------------
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
```

```
## -----------------------------------------------
##   Device    Mean    SE       Lower   Upper
## -----------------------------------------------
##   1         800     17.9     763     836
##   3         800     17.9     763     836
## -----------------------------------------------
##
##
## $`Flug: New York-AUA`
##
##   ANOVA
##
##   ANOVA
##   -----------------------------------------------------------------------------------
##                 Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
##   -----------------------------------------------------------------------------------
##   Device                 0.00     1           0.00    5.22e-30   1.000    0.000
##   Residuals         424585.90     38      11173.31
##   -----------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   -----------------------------------------------
##   Device    Mean    SE       Lower   Upper
##   -----------------------------------------------
##   1         592     23.6     544     640
##   3         592     23.6     544     640
##   -----------------------------------------------
##
##
## $`Flug: Tokio-AUA`
##
##   ANOVA
##
##   ANOVA
##   -----------------------------------------------------------------------------------
##                 Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
##   -----------------------------------------------------------------------------------
##   Device                 0.00     1           0.00    9.19e-32   1.000    0.000
##   Residuals         521687.60     38      13728.62
##   -----------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   -----------------------------------------------
##   Device    Mean    SE       Lower   Upper
```

```
##    --------------------------------------------
##     1            848       26.2        795       901
##     3            848       26.2        795       901
##    --------------------------------------------
##
##
## $`Flug: Amsterdam-KLM`
##
##   ANOVA
##
##   ANOVA
##   ------------------------------------------------------------------------------
##                 Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
##   ------------------------------------------------------------------------------
##     Device                0.00     1           0.00    1.30e-32   1.000    0.000
##     Residuals         36869.60    38         970.25
##   ------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   --------------------------------------------
##     Device    Mean    SE       Lower    Upper
##   --------------------------------------------
##     1          145    6.97       130      159
##     3          145    6.97       130      159
##   --------------------------------------------
##
##
## $`Flug: Berlin-EZY`
##
##   ANOVA
##
##   ANOVA
##   ------------------------------------------------------------------------------
##                 Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
##   ------------------------------------------------------------------------------
##     Device                0.00     1           0.00    3.79e-29   1.000    0.000
##     Residuals          1344.40    38          35.38
##   ------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   --------------------------------------------
##     Device    Mean    SE       Lower    Upper
##   --------------------------------------------
##     1         64.3    1.33      61.6     67.0
```

```
##    3           64.3      1.33      61.6      67.0
##   --------------------------------------------
##
##
## $`Flug: Lissabon-LDM`
##
##   ANOVA
##
##   ANOVA
##   ---------------------------------------------------------------------------------
##                    Sum of Squares    df     Mean Square     F          p       <U+03B7>²p
##   ---------------------------------------------------------------------------------
##     Device               0.00        1          0.00      8.67e-30   1.000     0.000
##     Residuals        14167.60        38        372.83
##   ---------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   ---------------------------------------------
##     Device    Mean      SE       Lower     Upper
##   ---------------------------------------------
##     1          104      4.32      95.2      113
##     3          104      4.32      95.2      113
##   ---------------------------------------------
##
##
## $`Flug: London-BAW`
##
##   ANOVA
##
##   ANOVA
##   ---------------------------------------------------------------------------------
##                    Sum of Squares    df     Mean Square     F          p       <U+03B7>²p
##   ---------------------------------------------------------------------------------
##     Device               0.00        1          0.00      6.51e-29   1.000     0.000
##     Residuals          367.50        38          9.67
##   ---------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   ---------------------------------------------
##     Device    Mean      SE       Lower     Upper
##   ---------------------------------------------
##     1          111      0.695     110       113
##     3          111      0.695     110       113
##   ---------------------------------------------
```

```
## 
## 
## $`Flug: Bangkok-THA`
## 
##   ANOVA
## 
##   ANOVA
##   -------------------------------------------------------------------------------
##                  Sum of Squares    df    Mean Square    F         p        <U+03B7>²p
##   -------------------------------------------------------------------------------
##     Device                 1.60    1            1.60    2.04e-4   0.989    0.000
##     Residuals         297651.50    38        7832.93
##   -------------------------------------------------------------------------------
## 
## 
##   ESTIMATED MARGINAL MEANS
## 
##   DEVICE
## 
##   Estimated Marginal Means - Device
##   --------------------------------------------
##     Device    Mean    SE      Lower    Upper
##   --------------------------------------------
##     1          979    19.8      939     1019
##     3          979    19.8      939     1019
##   --------------------------------------------
## 
## 
## $`Flug: New York-UAL`
## 
##   ANOVA
## 
##   ANOVA
##   -------------------------------------------------------------------------------
##                  Sum of Squares    df    Mean Square    F          p        <U+03B7>²p
##   -------------------------------------------------------------------------------
##     Device                 0.00    1            0.00    4.64e-30   1.000    0.000
##     Residuals         662062.00    38       17422.68
##   -------------------------------------------------------------------------------
## 
## 
##   ESTIMATED MARGINAL MEANS
## 
##   DEVICE
## 
##   Estimated Marginal Means - Device
##   --------------------------------------------
##     Device    Mean    SE      Lower    Upper
##   --------------------------------------------
##     1          620    29.5      561      680
##     3          620    29.5      561      680
##   --------------------------------------------
## 
## 
```

```
## $`Flug: Tokio-ANA`
##
##   ANOVA
##
##   ANOVA
##   ------------------------------------------------------------------------------------
##                 Sum of Squares     df    Mean Square      F          p      <U+03B7>²p
##   ------------------------------------------------------------------------------------
##     Device                0.00      1           0.00    1.24e-29   1.000   0.000
##     Residuals        153777.90     38        4046.79
##   ------------------------------------------------------------------------------------
##
##
##   ESTIMATED MARGINAL MEANS
##
##   DEVICE
##
##   Estimated Marginal Means - Device
##   ---------------------------------------------
##     Device    Mean    SE      Lower    Upper
##   ---------------------------------------------
##     1         687    14.2      658      716
##     3         687    14.2      658      716
##   ---------------------------------------------
```