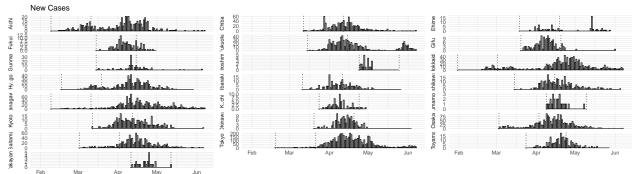
Japan

Data

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
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```

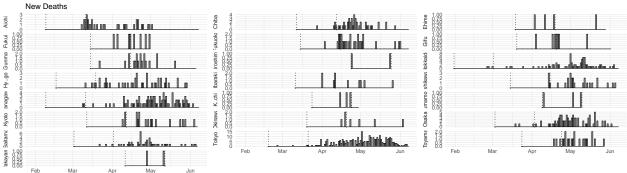
```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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```



Vertical dotted lines represent the first seeding day and the epidemic start date

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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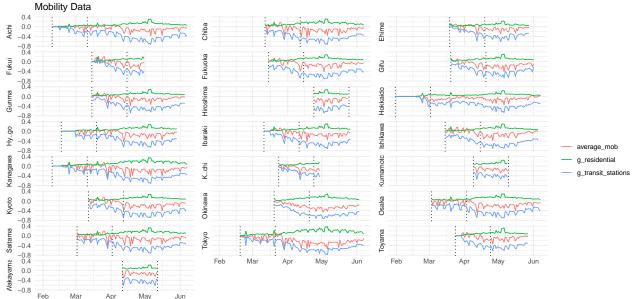
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```



Vertical dotted lines represent the first seeding day and the epidemic start date.

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```



Vertical dotted lines represent the first seeding day and the epidemic start date.

Analysis

Number of divergent transitions = 0

Maximum $\hat{R} = 1.005838$

Minimum Bulk ESS = 1485.943

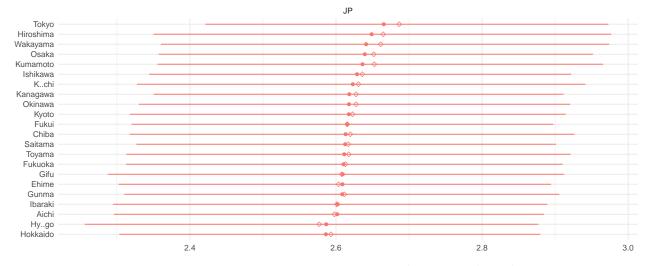
Minimum Tail ESS = 1209.656

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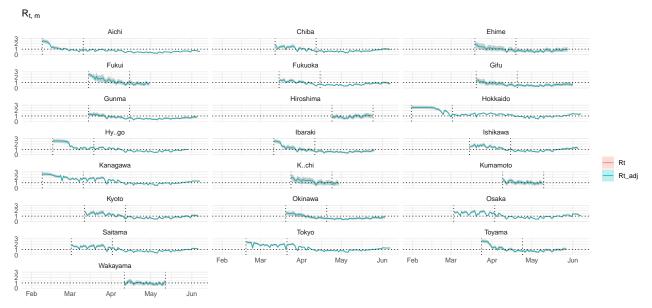
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      R_{0.m}
```



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```



Vertical dotted lines represent the first seeding day and the epidemic start date Ribbons represent the 80% credible intervals

Contact rate function:

$$cr(t; t^*, \lambda_j, \kappa) = \lambda_j + \frac{1 - \lambda_j}{1 + \exp(\kappa(t - t^*))}$$

where

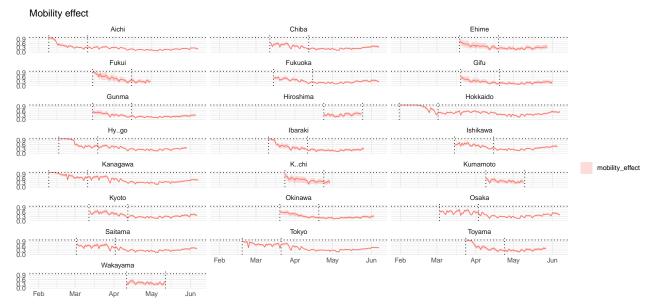
$$\lambda_j \sim \text{Beta}(3,1)$$
 $\kappa \sim \text{NegHalfNormal}(0,1).$

```
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  Contact Rate
               Aichi
                                             Chiba
                                                                           Ehime
               Fukui
                                            Fukuoka
                                                                           Gifu
              Gunma
                                            Hiroshima
                                                                          Hokkaido
               Hy..go
                                             Ibaraki
                                                                          Ishikawa
                                             K..chi
                                                                          Kumamoto
                                                                                             trend
               Kvoto
                                            Okinawa
                                                                           Osaka
                                                                          Toyama
              Saitama
                                             Tokyo
                                                                           Apr
              Wakavama
  Feb
        Mar
               Apr
                     May
                                                      Vertical dotted lines represent the first seeding day and the epidemic start date
Ribbons represent the 80% credible intervals
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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   S_{t, \, m}
                                            Chiba
                Aichi
                                                                         Gifu
                Gunma
                                           Hiroshima
                                                                        Hokkaido
                                                                        Ishikawa
                Hy..gc
               Kanagawa
                                            K..chi
                                                                       Kumamoto
                                                                                          adj_factor
                Kyoto
                                            Okinawa
                                                                        Osaka
                                            Tokyo
               Saitama
                                                                        Toyama
                                                  May
                                                                         Apı
               Wakayama
```

Vertical dotted lines represent the first seeding day and the epidemic start date.

Ribbons represent the 80% credible intervals.

Mobility linear model: $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$.

Feh

Apr

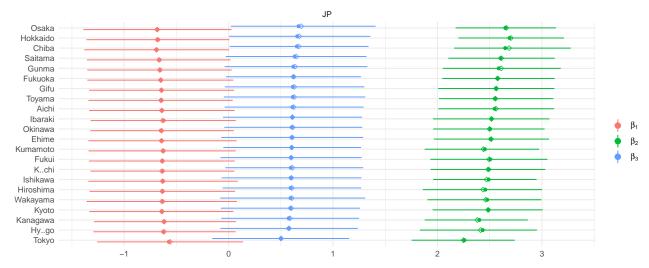
May

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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
      β
```



Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :

```
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
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## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
                                                                      Ehime
               Aichi
                                          Chiba
               Fukui
                                          Fukuoka
                                                                       Gifu
 1:11
              Gunma
                                          Hiroshima
                                                                      Hokkaido
                                          Ibaraki
               Hy..go
                                                                      Ishikawa

    observed

                                          K..chi
              Kanagawa
                                                                     Kumamoto
_we/

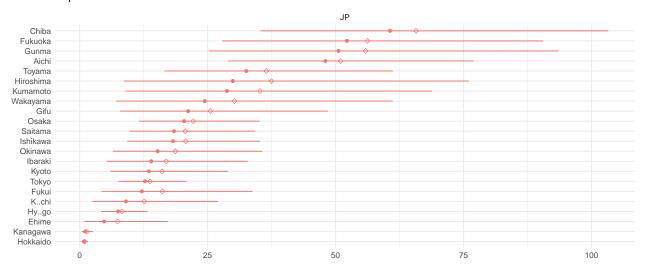
    predicted median

  8
                                          Okinawa
                                                                      Osaka
               Kyoto
                             8.8
                                           Tokyo
                                                                      Toyama
              Saitama
 1:38
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
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## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
```

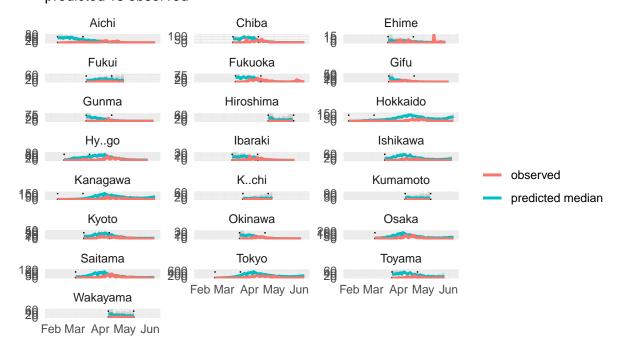
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
      Imputed Cases
```



Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :

```
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
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## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
```

New Cases predicted vs observed



Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths. Vertical dotted lines represent the first seeding day and the epidemic start date.

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <c5>
```

```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Hyōgo' in 'mbcsToSbcs': dot substituted for <8d>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <c5>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'Kōchi' in 'mbcsToSbcs': dot substituted for <8d>
IFR
```

