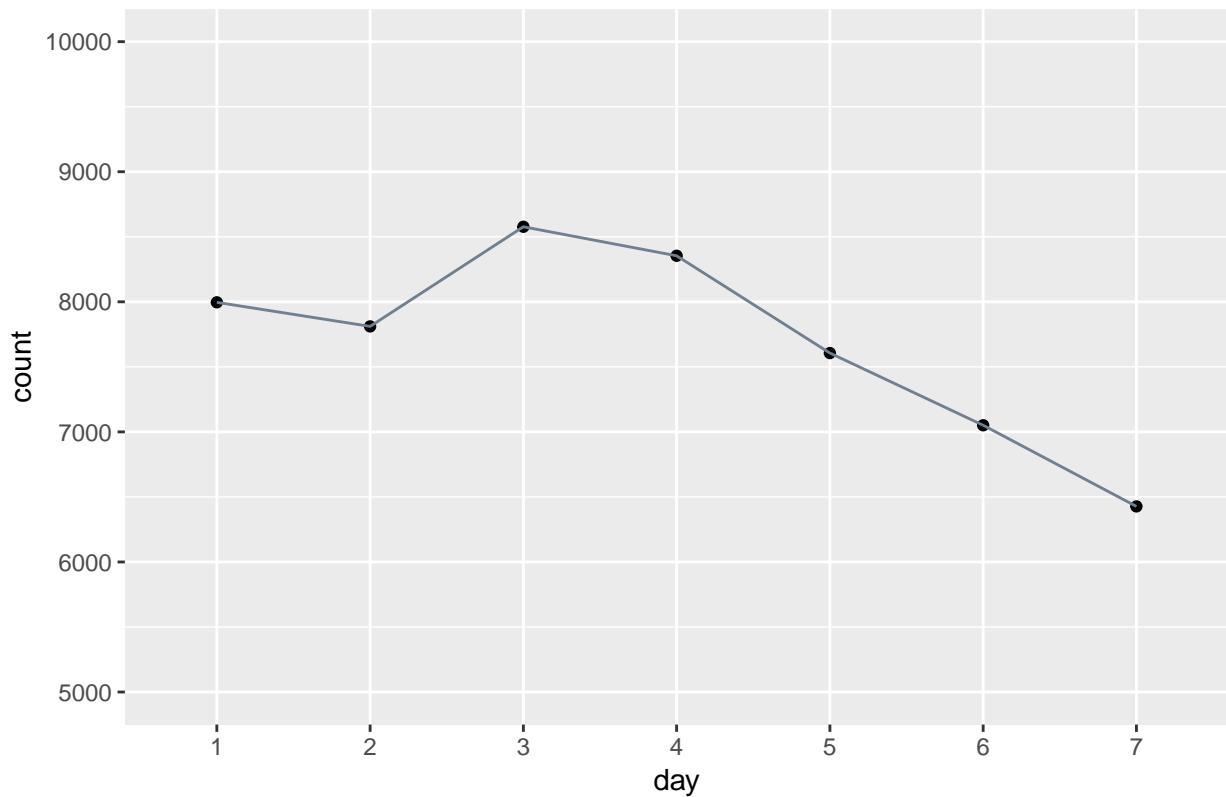
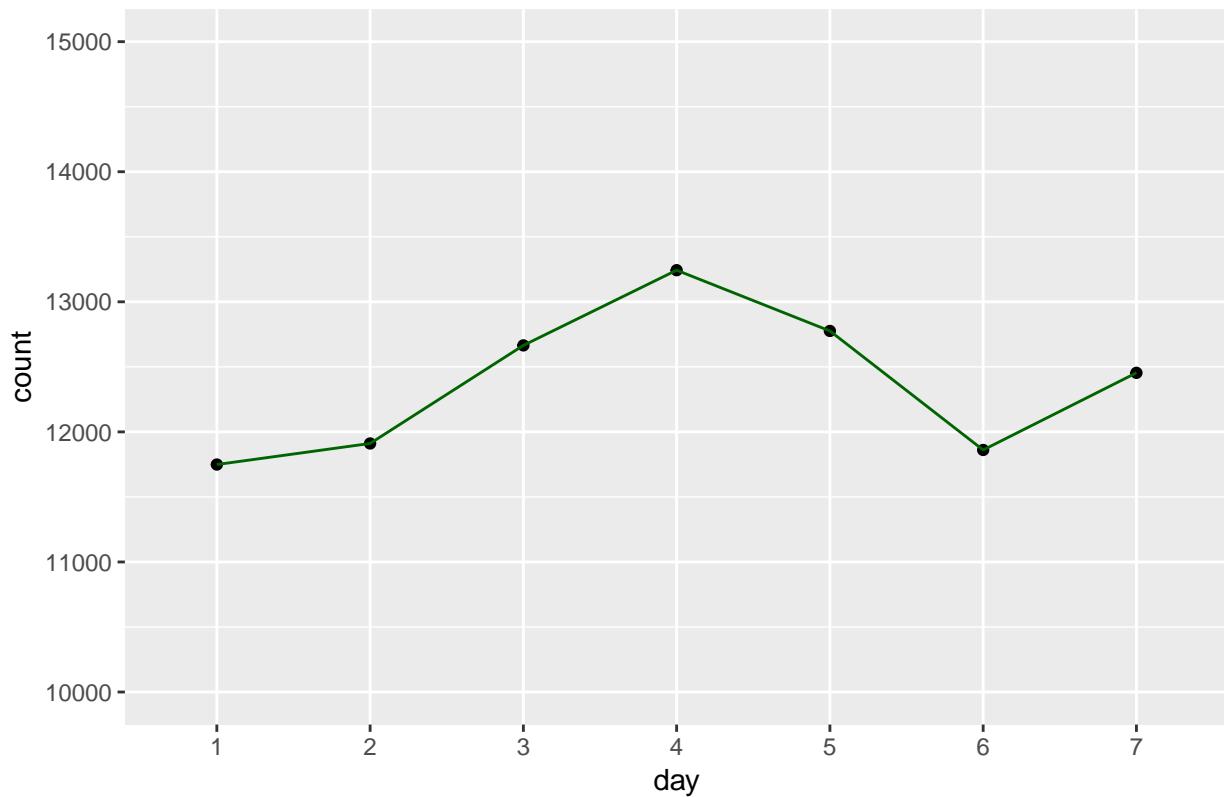


guangzhou mobile activity

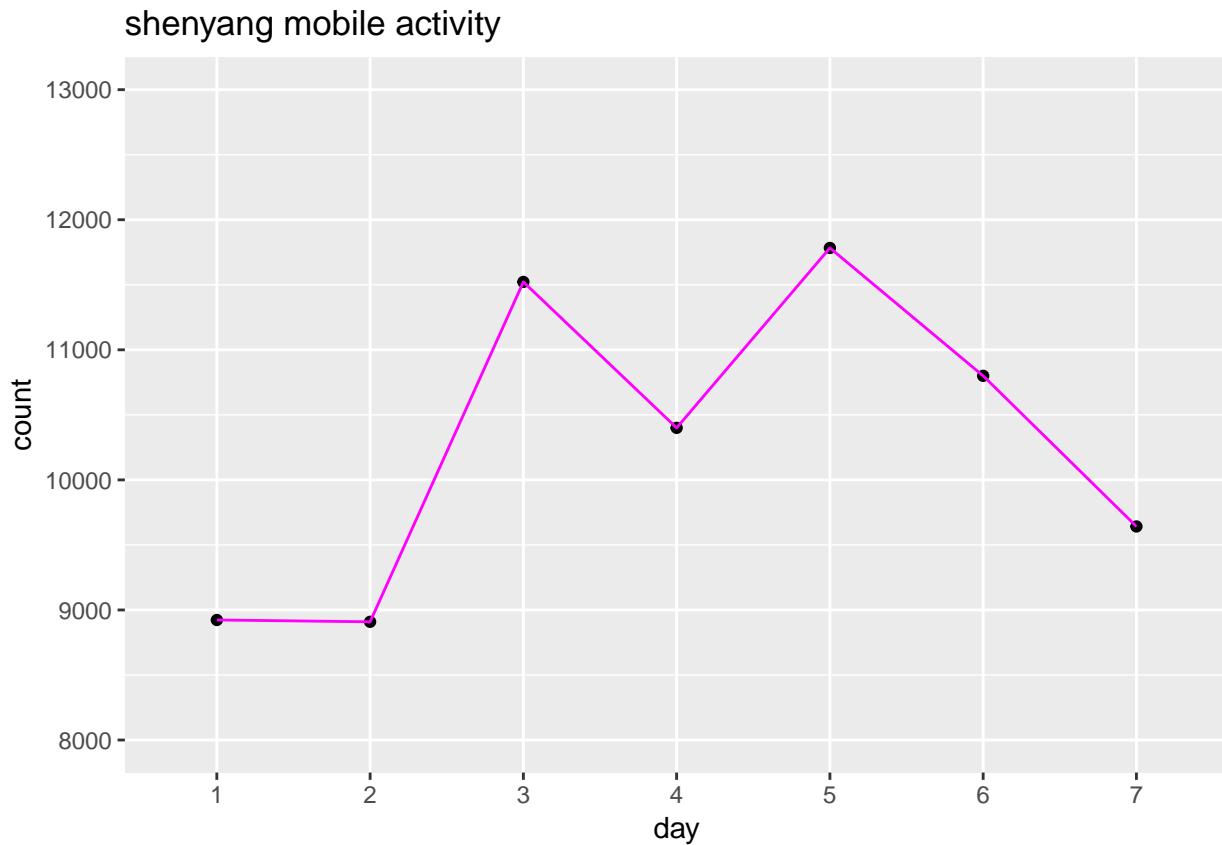


```
ggplot() + geom_point(aes(x = c(1:7), y = activity$shanghai)) + geom_line(aes(x = c(1:7), y = activity$
```

shanghai mobile activity



```
ggplot() + geom_point(aes(x = c(1:7), y = activity$shenyang)) + geom_line(aes(x = c(1:7), y = activity$
```



ACTIVITY ANALYSIS

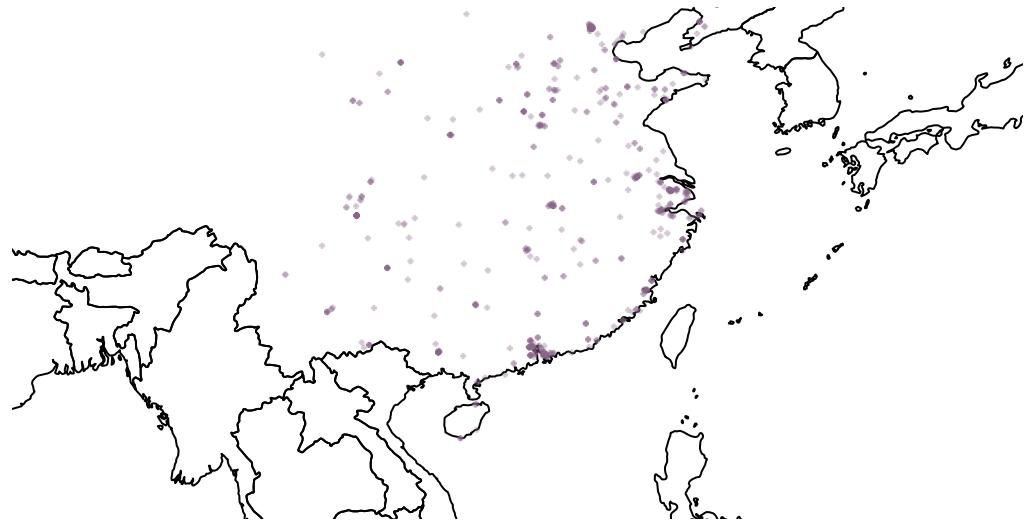
activity

```
##      date beijing shenyang shanghai guangzhou chengdu
## 1 1-May   18999     8923    11749     7996    2307
## 2 2-May   17576     8909    11911     7811    2533
## 3 3-May   18876    11522    12665     8577    2860
## 4 4-May   18935    10400    13243     8354    2622
## 5 5-May   18758    11783    12776     7606    2854
## 6 6-May   18391    10800    11861     7051    2680
## 7 7-May   18044     9642    12454     6427    2591
```

PLOTS BY DAY

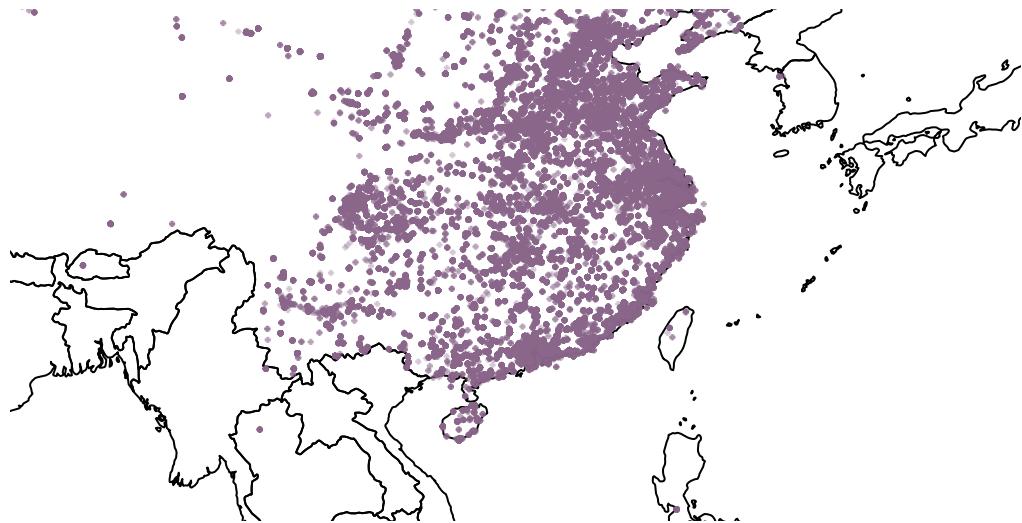
```
# APRIL 30
newmap <- getMap(resolution = "low")
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: april 30")
points(apr_30$longitude, apr_30$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```

mobile activity: april 30



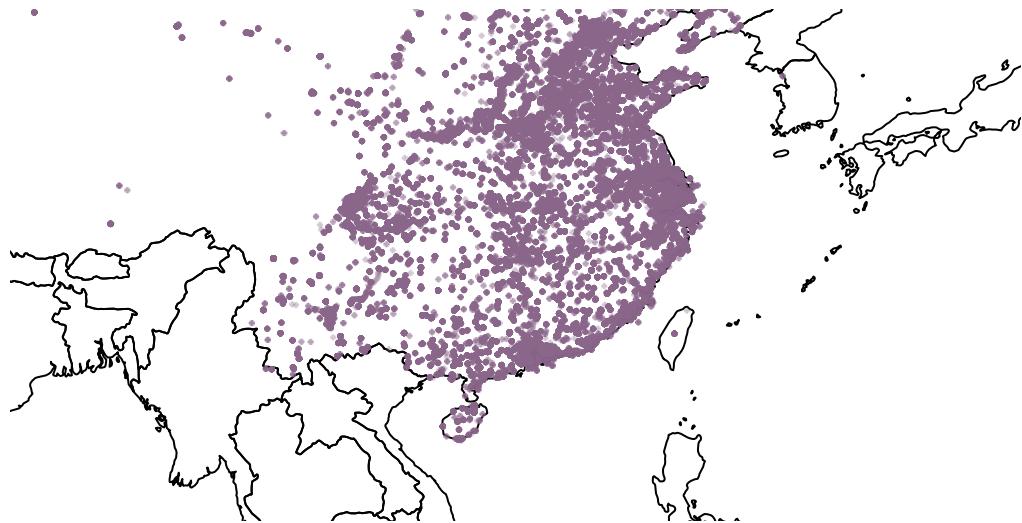
```
# MAY 1  
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: may 1")  
points(may_1$longitude, may_1$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```

mobile activity: may 1



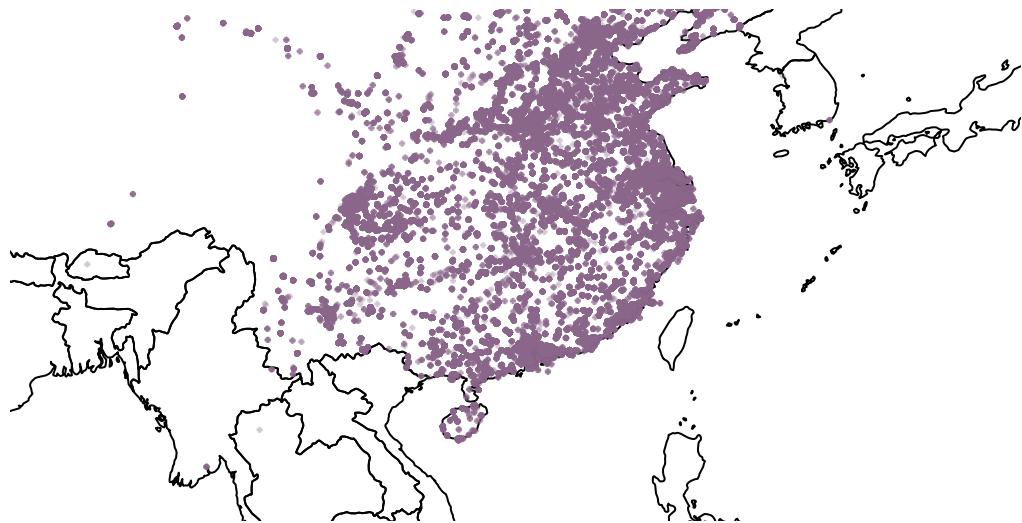
```
# MAY 2
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: may 2")
points(may_2$longitude, may_2$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```

mobile activity: may 2



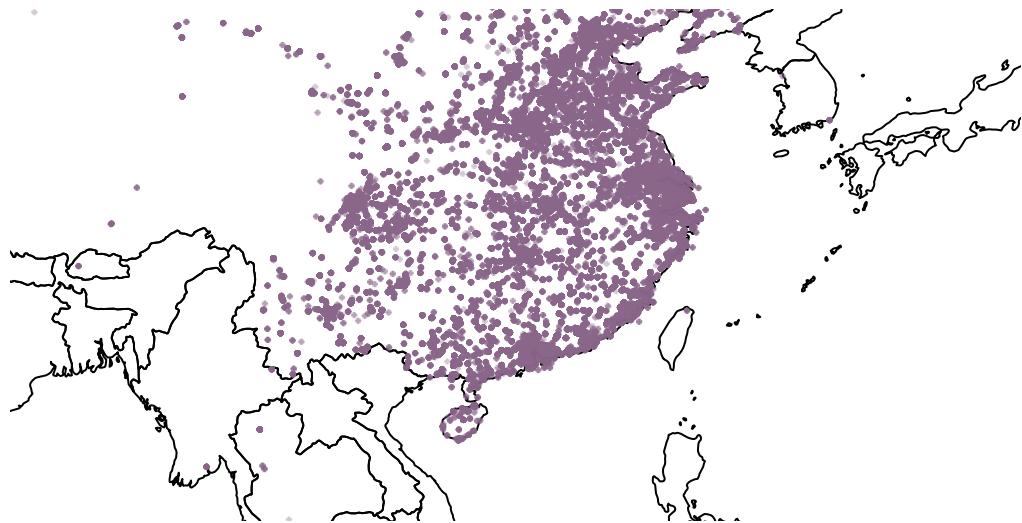
```
# MAY 3
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: may 3")
points(may_3$longitude, may_3$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```

mobile activity: may 3



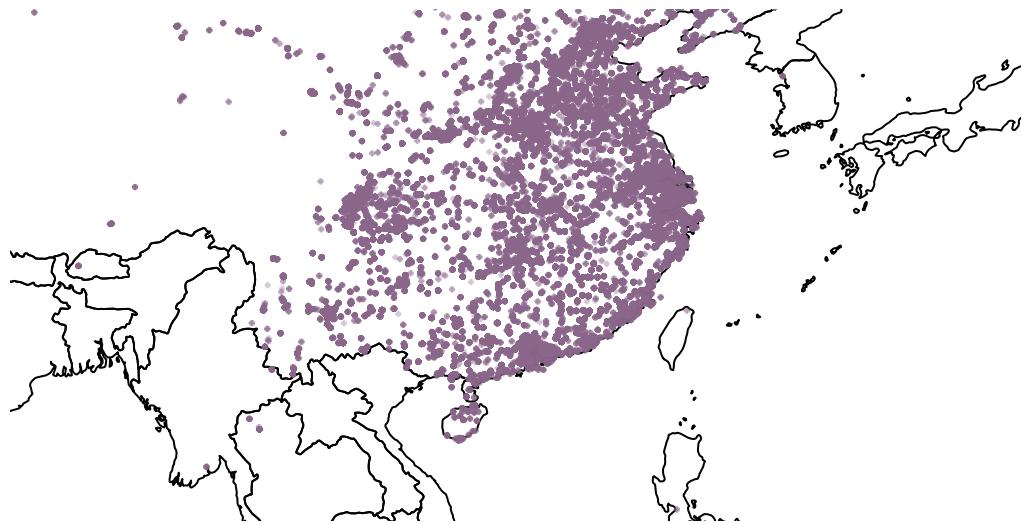
```
# MAY 4  
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: may 4")  
points(may_4$longitude, may_4$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```

mobile activity: may 4



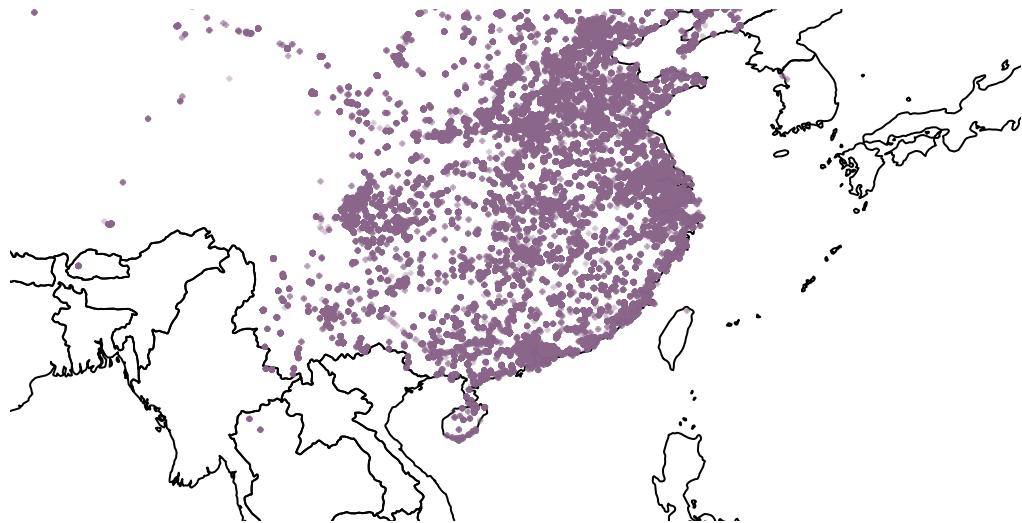
```
# MAY 5
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: may 5")
points(may_5$longitude, may_5$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```

mobile activity: may 5



```
# MAY 6
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: may 6")
points(may_6$longitude, may_6$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```

mobile activity: may 6



```
# MAY 7
plot(newmap, xlim = c(105, 120), ylim = c(15, 40), asp = 1, main = "mobile activity: may 7")
points(may_7$longitude, may_7$latitude, col = alpha("plum4", 0.2), cex = 0.3, pch = 10)
```