Summary listing from Jamaica

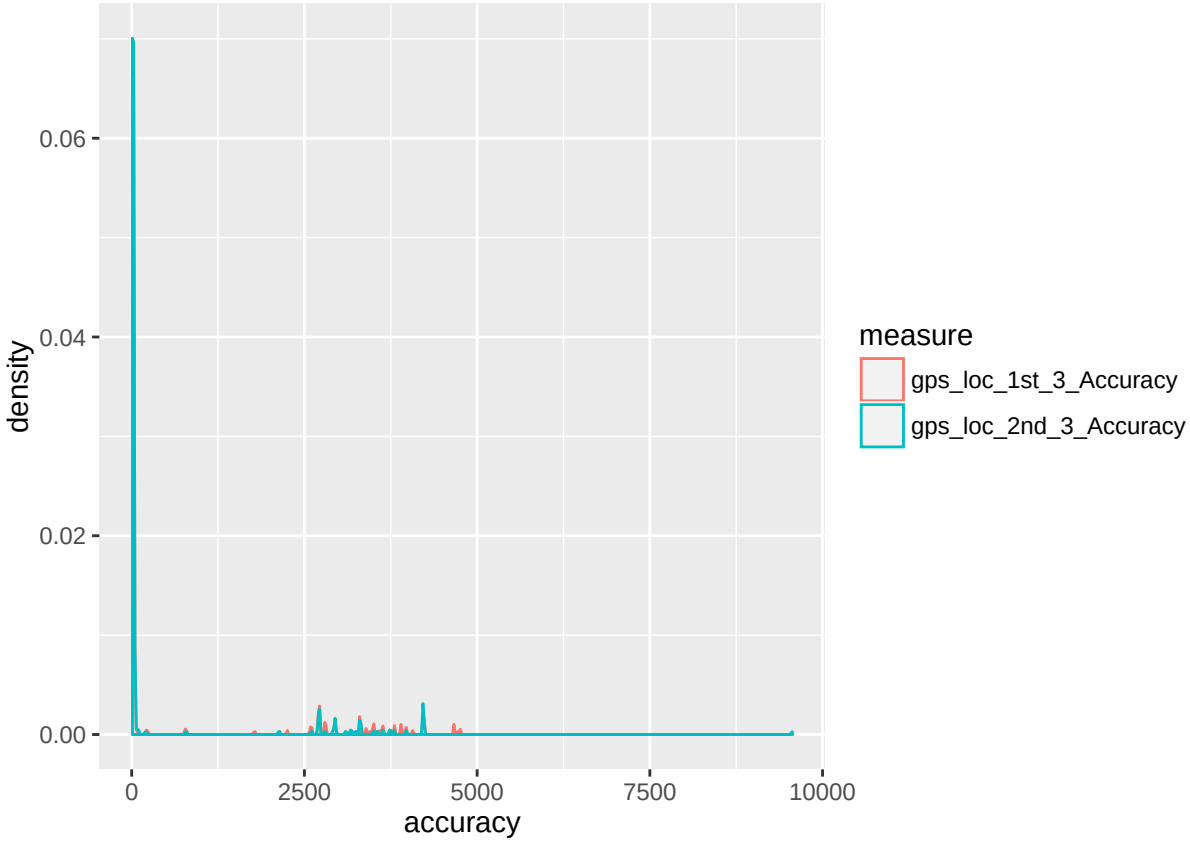
Michael Rahija

May 27, 2016

Examine the accuracy of the geoferences for parcels

The georefernece of each parcel was recorded two times. The experience in Indonesia suggested that the second reading was often more accurate than the first. Again, the second gps measure seems to be a bit more accurate than the first.

```
## Warning: Removed 27 rows containing non-finite values (stat_density).
```

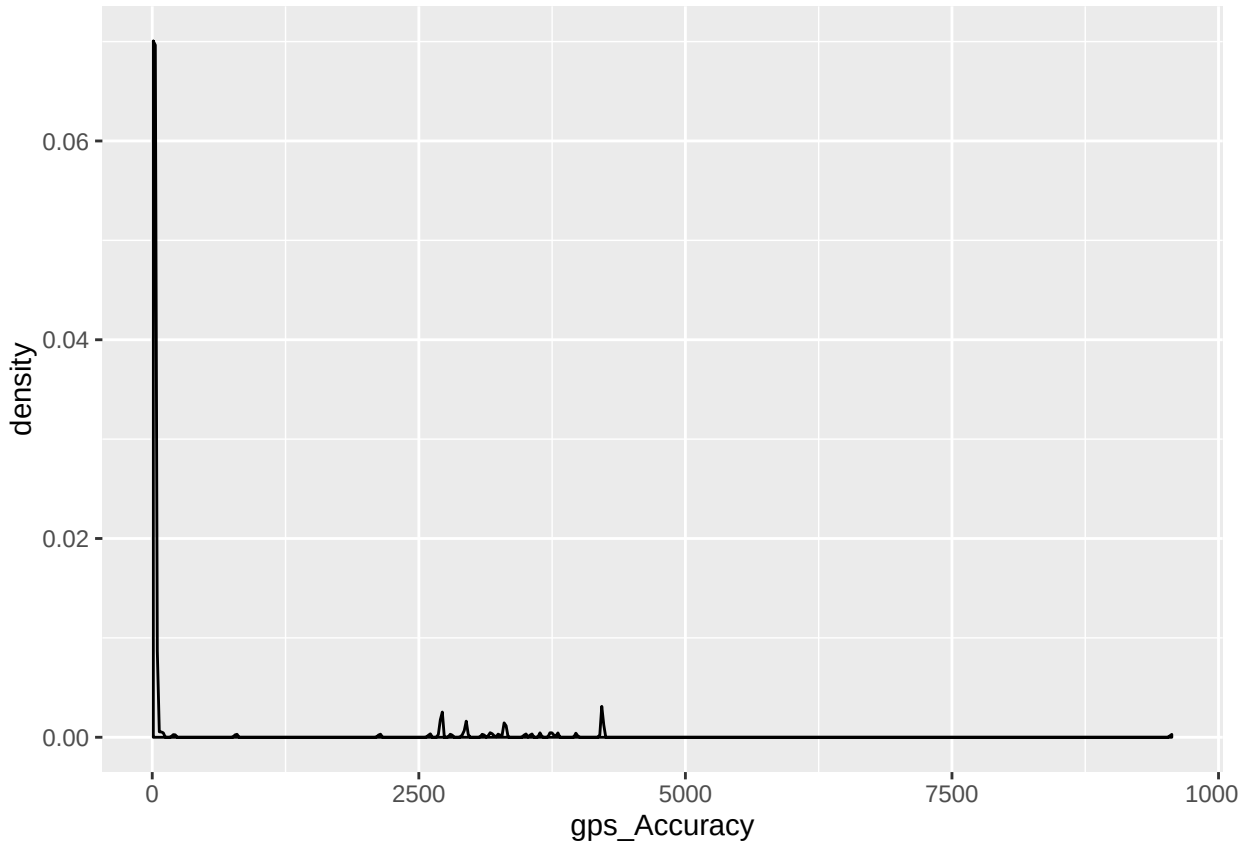


The mean of the first measure is 644.7277754 and the mean of the second is 448.2915427.

In 87 percent of cases, the second reading is more accurate than the first. Filtering each parcel for the most accurate of the two the distribution becomes a bit tighter.

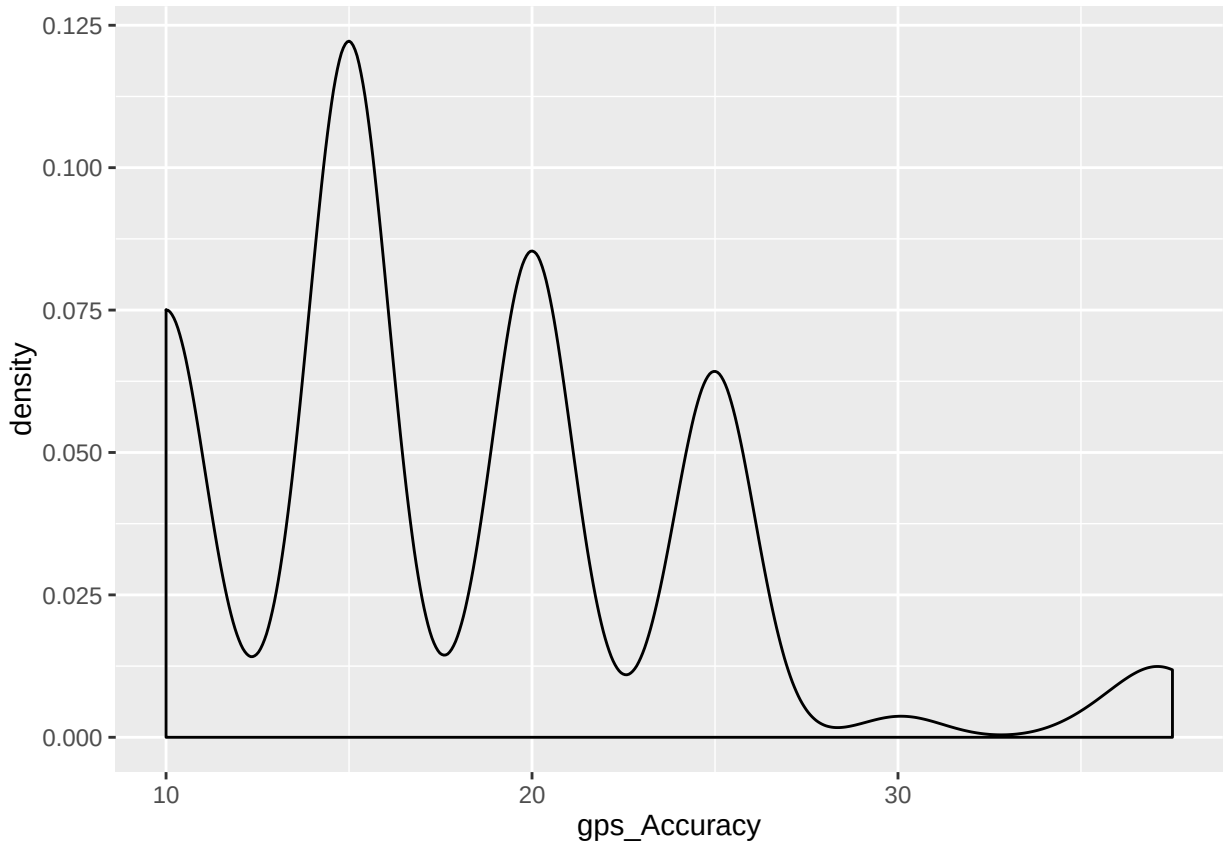
```
## Warning in if (gps$gps_loc_1st_3_Accuracy > gps$gps_loc_1st_3_Accuracy) {:
## the condition has length > 1 and only the first element will be used
```

```
## Warning: Removed 14 rows containing non-finite values (stat_density).
```



Looking at the quantiles, we can see that 85% of the georeferences are more accurate than 37.5 meters, and 80% are below 25 meters which is accurate enough to be helpful for enumerators.

```
##      0%      5%     10%     15%     20%     25%     30%     35%     40%     45%
##    10.0    10.0    10.0    10.0    15.0    15.0    15.0    15.0    15.0    15.0
##     50%     55%     60%     65%     70%     75%     80%     85%     90%     95%
##    20.0    20.0    20.0    20.0    25.0    25.0    25.0    37.5 2712.0 3316.9
##    100%
## 9562.0
```


0.125
0.100
0.075
0.050
0.025
0.000
density
10
20
30
gps_Accuracy

Analysis of differences between measurement methods for plot area