$sample_tables$

```
library(raster)
library(kableExtra)
library(dplyr)
library(tidyr)
library(stringr)
mt_data <- read.csv("data/raw/occurrence/Pk_merged_uncoded_SEA.csv")</pre>
# We do not ever use non-MBS polygons
mt_data <- mt_data %>%
  filter(! (Geometry_type == "polygon" & Site_country != "Malaysia"))
# Remove thinned polygons (looking ahead in the processing pipeline here)
poly_thinned <- read.csv("data/clean/occurrence/pk_present/ALL_occ_thinned.csv") %%
  filter(str_detect(Source, "MBS_MT_polygon")) %>%
  pull(Original_Unique_ID) %>% unique()
mt_data <- mt_data %>%
  filter(Geometry_type == "point" | ID %in% poly_thinned)
data_by_year <- mt_data %>%
  group by (Publication year) %>%
  summarise(n_pubs = length(unique(Source_primary)),
            n data = n()
kbl(data_by_year,
    col.names = c("Year", "Papers included", "Samples included"),
    booktabs = TRUE, linesep = "") %>%
  kable_styling(latex_options = "striped")
malaysia_admin1 <- shapefile('data/raw/mbs_maps/mys_admbnda_adm1_unhcr_20210211')</pre>
mt_data_with_mys <- mt_data %>%
  rowwise() %>%
  mutate(points = list(SpatialPoints(tibble(Longitude, Latitude),
                                proj4string = CRS("+proj=longlat +datum=WGS84")))) %>%
```

Year	Papers included	Samples included
2015	3	6
2016	8	35
2017	4	22
2018	6	29
2019	5	11
2020	1	1

```
mutate(mys_adm1 = over(points, malaysia_admin1)$ADM1_EN[1]) %>%
  ungroup() %>%
  mutate(Region = ifelse(is.na(mys_adm1), Site_country, mys_adm1))
data_by_region <- mt_data_with_mys %>%
  group_by(Site_country, Region, Host, Geometry_type) %>%
  summarise(n_data = n()) %>%
  ungroup() %>%
 pivot_wider(names_from = c(Host, Geometry_type),
              values from = c(n data)) %>%
 mutate(mosquito_polygon = 0) # No data here!!
## `summarise()` has grouped output by 'Site_country', 'Region', 'Host'. You can override using the `.g
data_by_region <- data_by_region %>%
  mutate(across(-c(Site_country, Region),
                ~ ifelse(is.na(.), 0, .))) %>%
  mutate(human_total = human_point + human_polygon,
         monkey_total = monkey_point + monkey_polygon,
         mosquito_total = mosquito_point + mosquito_polygon) %>%
  bind_rows(.,
            filter(., Site_country == "Malaysia") %>%
              summarise(across(-c(Site_country,Region),sum)) %>%
              mutate(Region = "Malaysia (Total)",
                     Site_country = "M_alaysia")) %>%
  arrange(Site_country, Region) %>%
  select(Site_country, Region,
         human_point, human_polygon, human_total,
         monkey_point, monkey_polygon, monkey_total,
         mosquito point, mosquito polygon, mosquito total)
data_by_region <- data_by_region %>%
  mutate_at(vars(-c(Site_country, Region)),
         ~ cell_spec(., color = ifelse(. == 0, "#666666", "black")))
kbl(data_by_region %>% select(-Site_country),
    col.names = c("Country/Region", rep(c("Point", "Polygon", "Total"), times = 3)),
   booktabs = TRUE, linesep = "",
   escape = FALSE) %>%
  kable_styling(latex_options = "striped") %>%
  add_header_above(c("", "Human" = 3, "Macaque" = 3, "Mosquito" = 3)) %>%
  add indent(which(data by region$Site country == "Malaysia"))
```

	Human			Macaque			Mosquito		
Country/Region	Point	Polygon	Total	Point	Polygon	Total	Point	Polygon	Total
Cambodia	5	0	5	0	0	0	0	0	0
Indonesia	16	0	16	0	0	0	1	0	1
Laos	1	0	1	0	0	0	0	0	0
Malaysia (Total)	56	9	65	1	4	5	7	0	7
Johor	1	0	1	0	0	0	0	0	0
Kelantan	3	1	4	0	0	0	0	0	0
Melaka	1	0	1	0	0	0	0	0	0
Negeri	1	0	1	0	1	1	0	0	0
Pahang	2	0	2	0	0	0	0	0	0
Perak	3	0	3	0	1	1	0	0	0
Sabah	30	5	35	0	0	0	7	0	7
Sarawak	14	2	16	1	1	2	0	0	0
Selangor	1	0	1	0	1	1	0	0	0
W.P. Kuala Lumpur	0	1	1	0	0	0	0	0	0
Philippines	1	0	1	1	0	1	0	0	0
Thailand	2	0	2	0	0	0	0	0	0