

Week12_Assignment

Ellen Bledsoe

2024-04-08

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.0
## v ggplot2    3.4.2      v tibble    3.2.1
## v lubridate  1.9.2      v tidyr     1.3.0
## v purrr      1.0.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

1. For Loop Basics (30 pts)

1a.

```
## [1] 3
## [1] 6
## [1] 9
## [1] 12
## [1] 15
```

1b.

```
## [1] 4.84
## [1] 7.7
## [1] 21.12
## [1] 2.64
```

1c.

```
## [1] "robin"
## [1] "woodpecker"
## [1] "blue jay"
## [1] "sparrow"
```

1d.

```
## [1] 5.309292 13.854424 38.484510
```

1e.

```
## [1] 5.309292 13.854424 38.484510
```

```
## [1] 3.85 5.28 4.48
```

2. Size Estimates by Name (30 pts)

```
## Rows: 500 Columns: 2
## -- Column specification -----
## Delimiter: ","
## chr (1): species
## dbl (1): lengths
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

2a.

```
## [1] 24341.68 27017.90 67453.38 22114.19 53884.76 52026.34
```

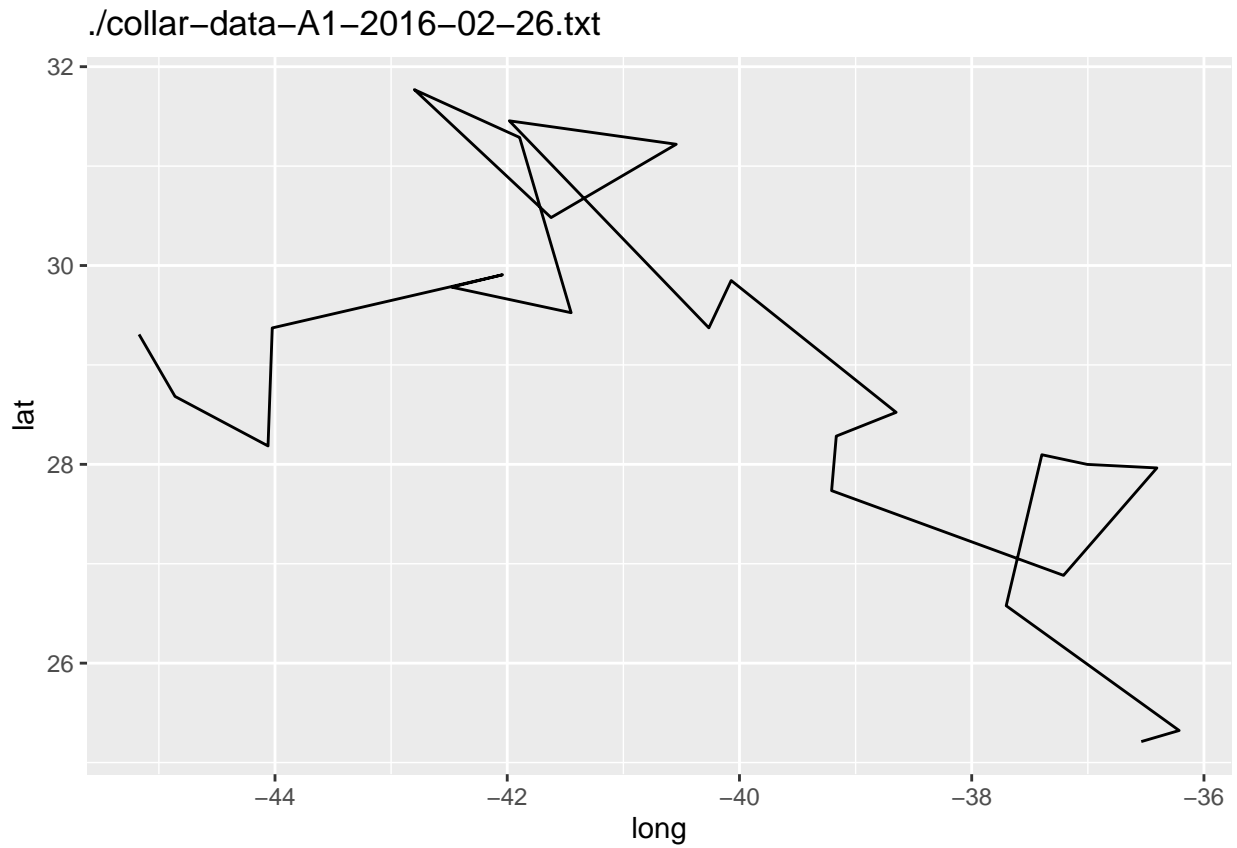
2b.

```
## # A tibble: 6 x 3
##   species      lengths masses
##   <chr>         <dbl>   <dbl>
## 1 Stegosauria    18.5 24342.
## 2 Ankylosauria   16.4 27018.
## 3 Ankylosauria   23.7 67453.
## 4 Sauropoda      23.9 22114.
## 5 Ankylosauria   21.7 53885.
## 6 Ankylosauria   21.4 52026.
```

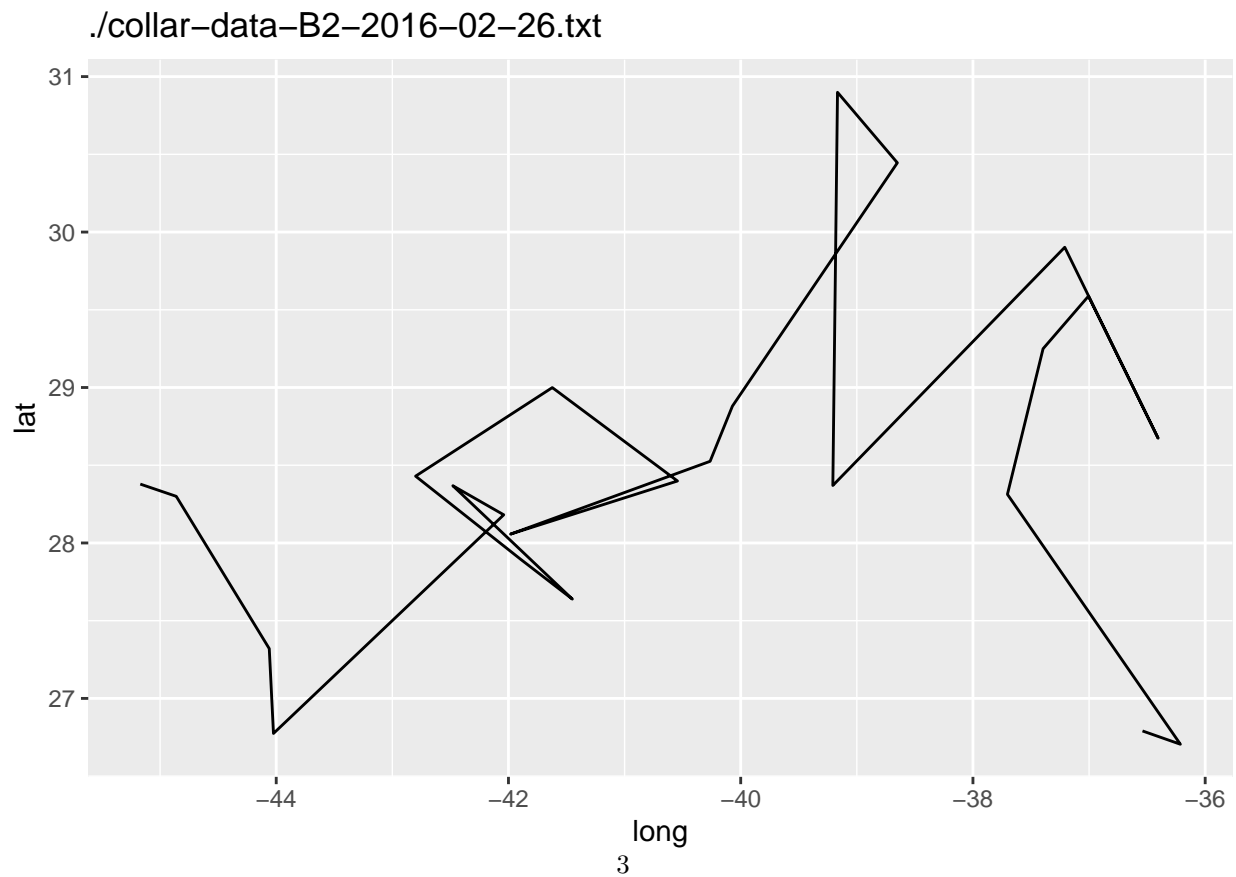
2c.

```
## # A tibble: 4 x 2
##   species      avg_mass
##   <chr>         <dbl>
## 1 Ankylosauria  46819.
## 2 Sauropoda    16104.
## 3 Stegosauria  31924.
## 4 Theropoda    45572.
```

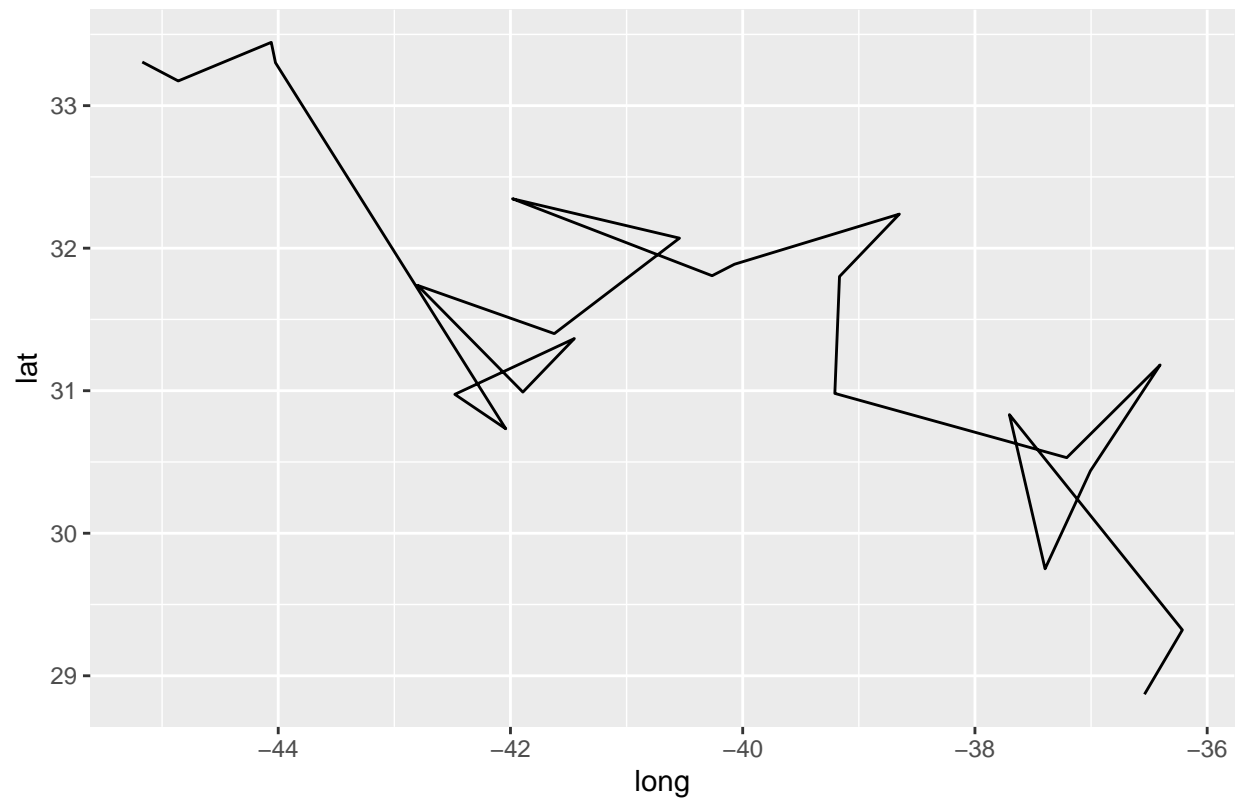
3. Multi-file Analysis (40 pts)



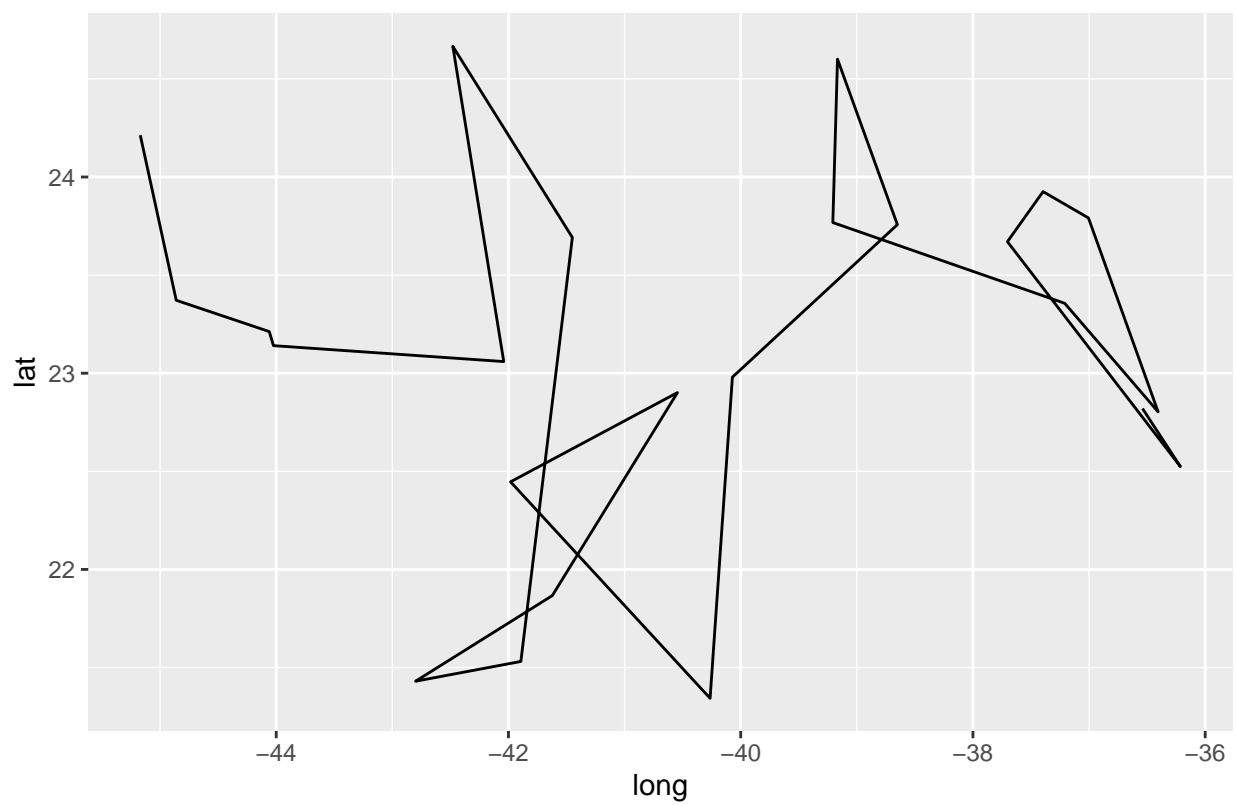
3a.



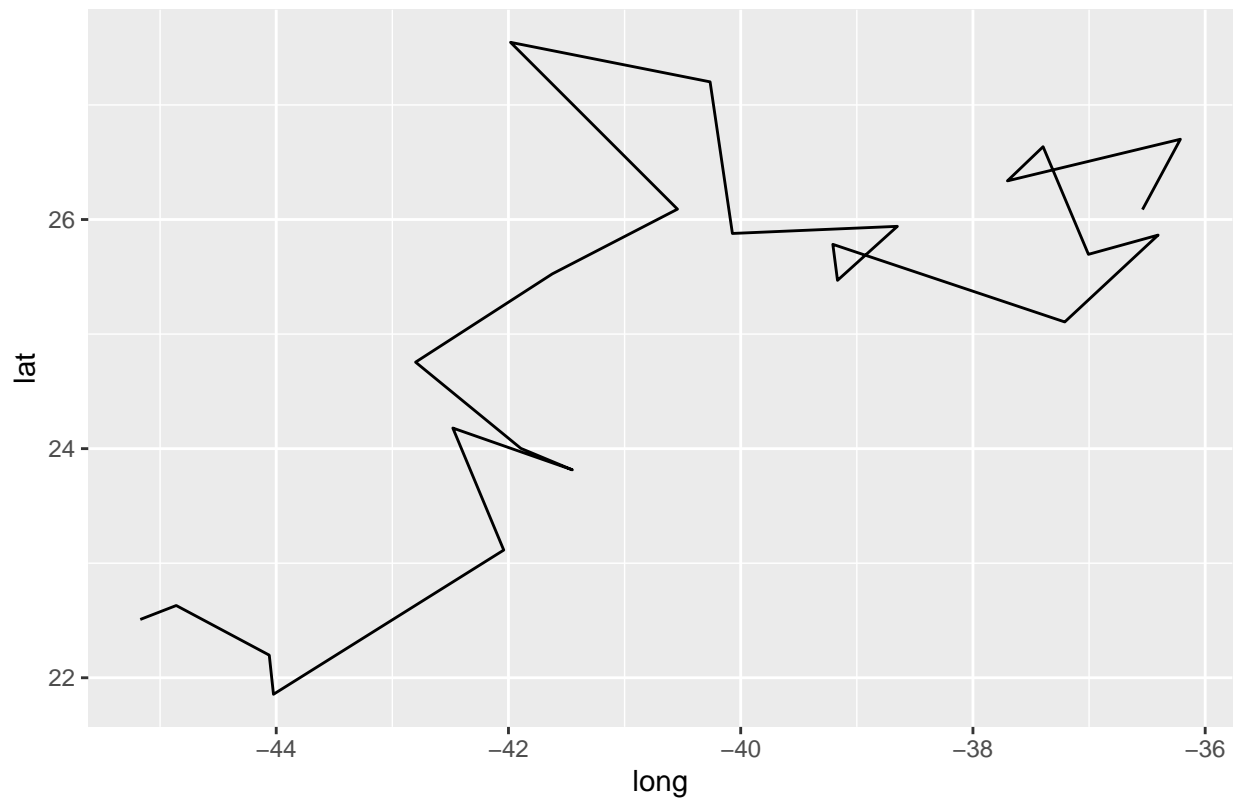
./collar-data-C3-2016-02-26.txt



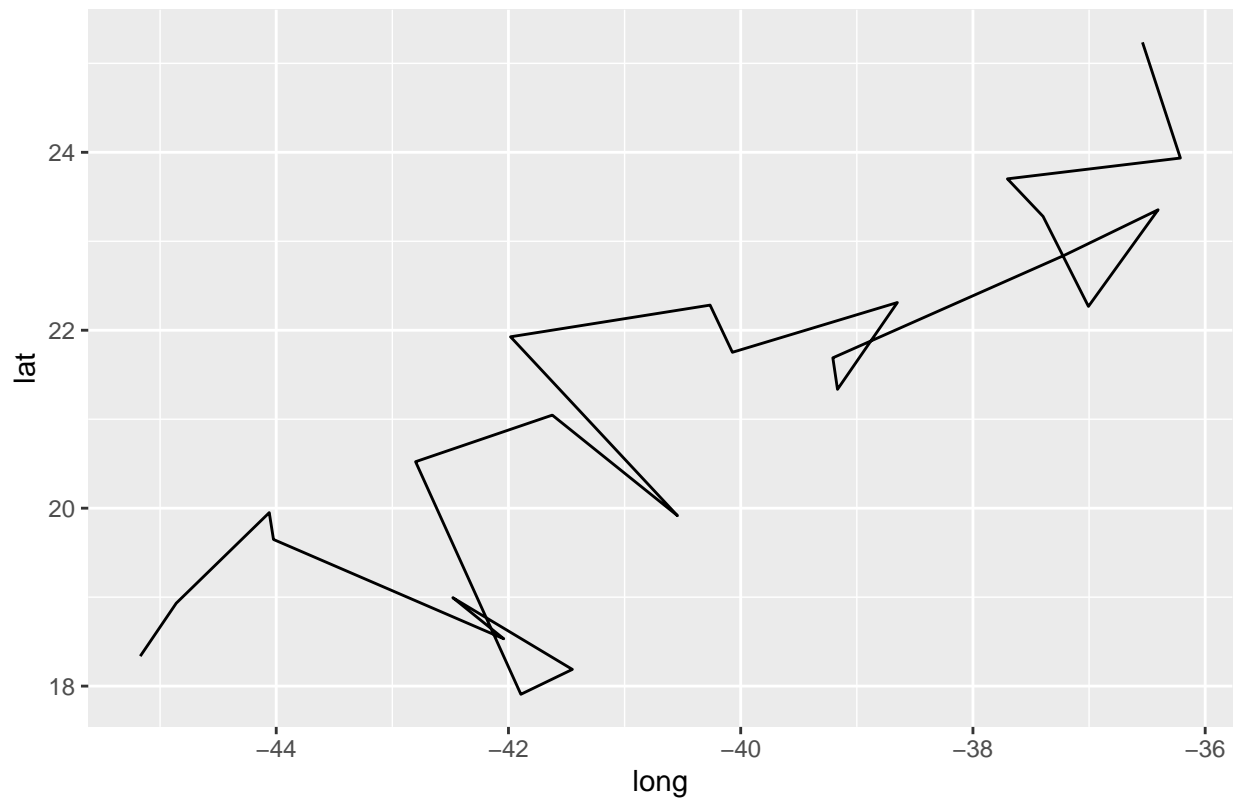
./collar-data-D4-2016-02-26.txt



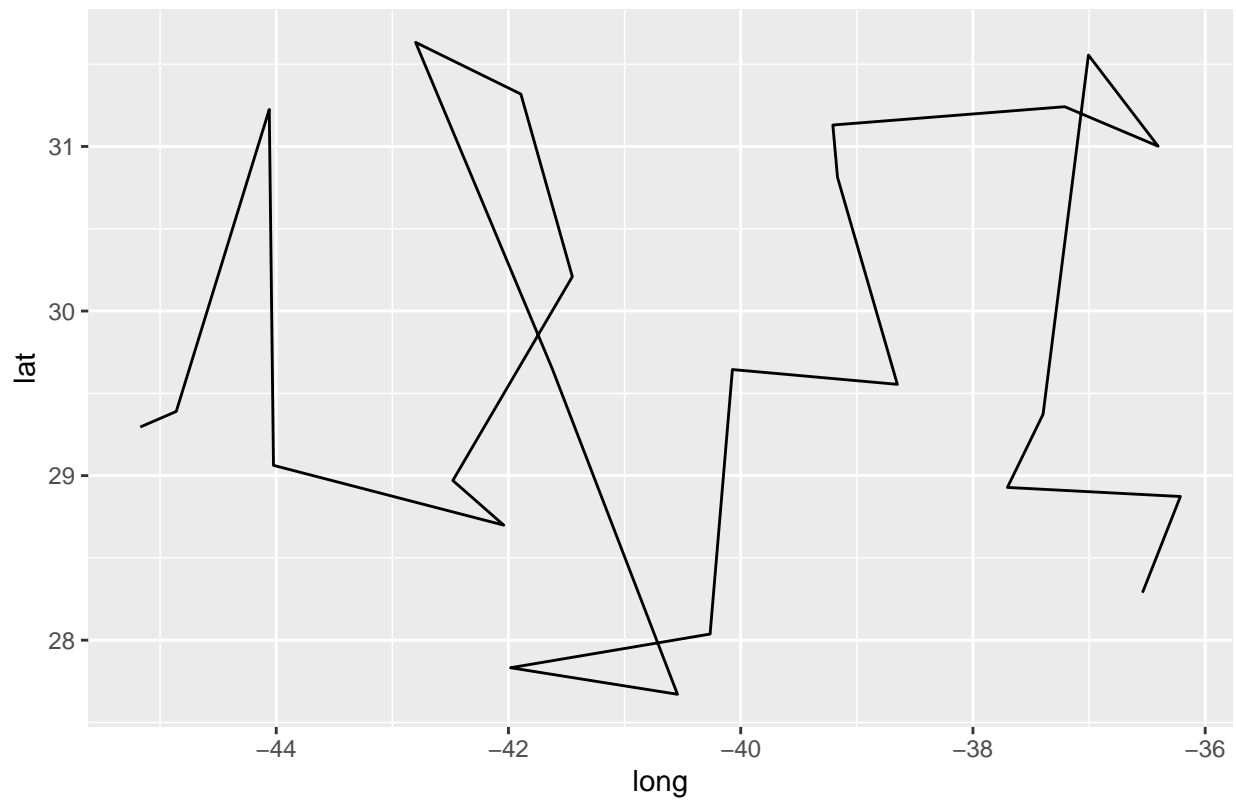
./collar-data-E5-2016-02-26.txt



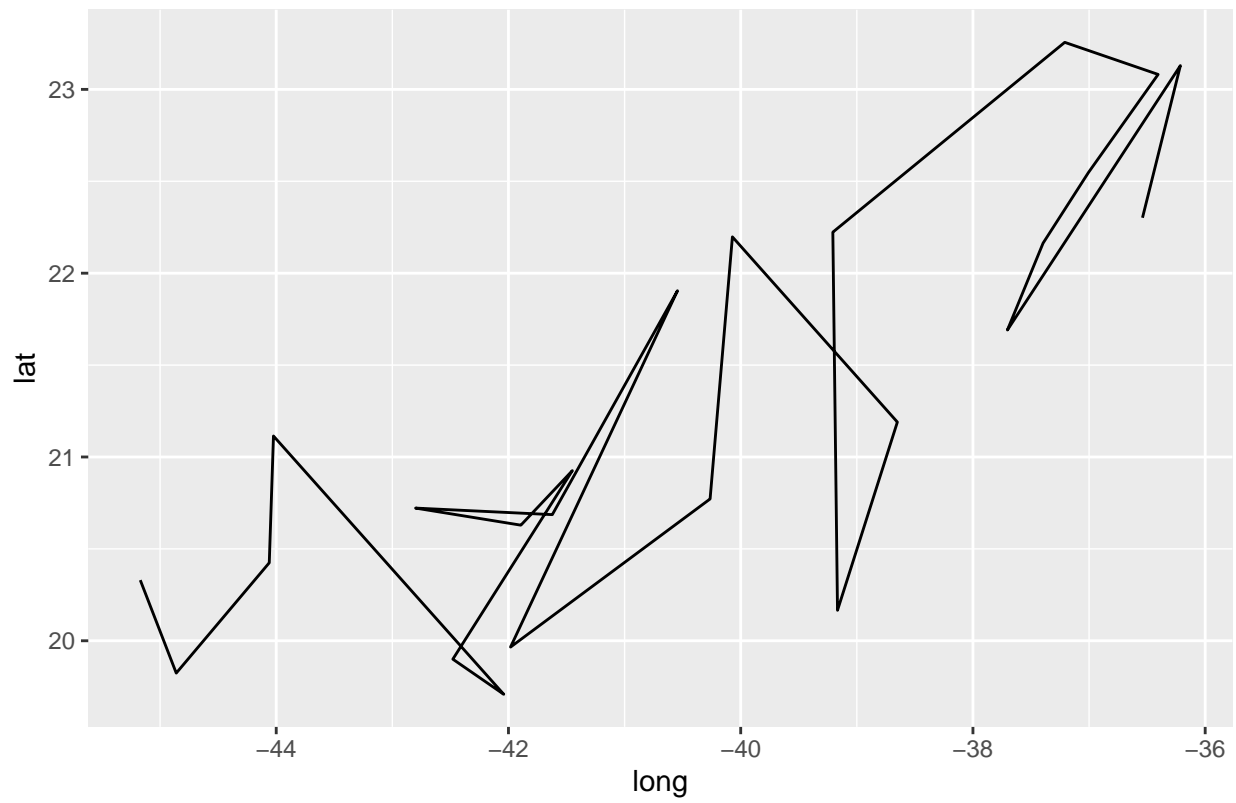
./collar-data-F6-2016-02-26.txt



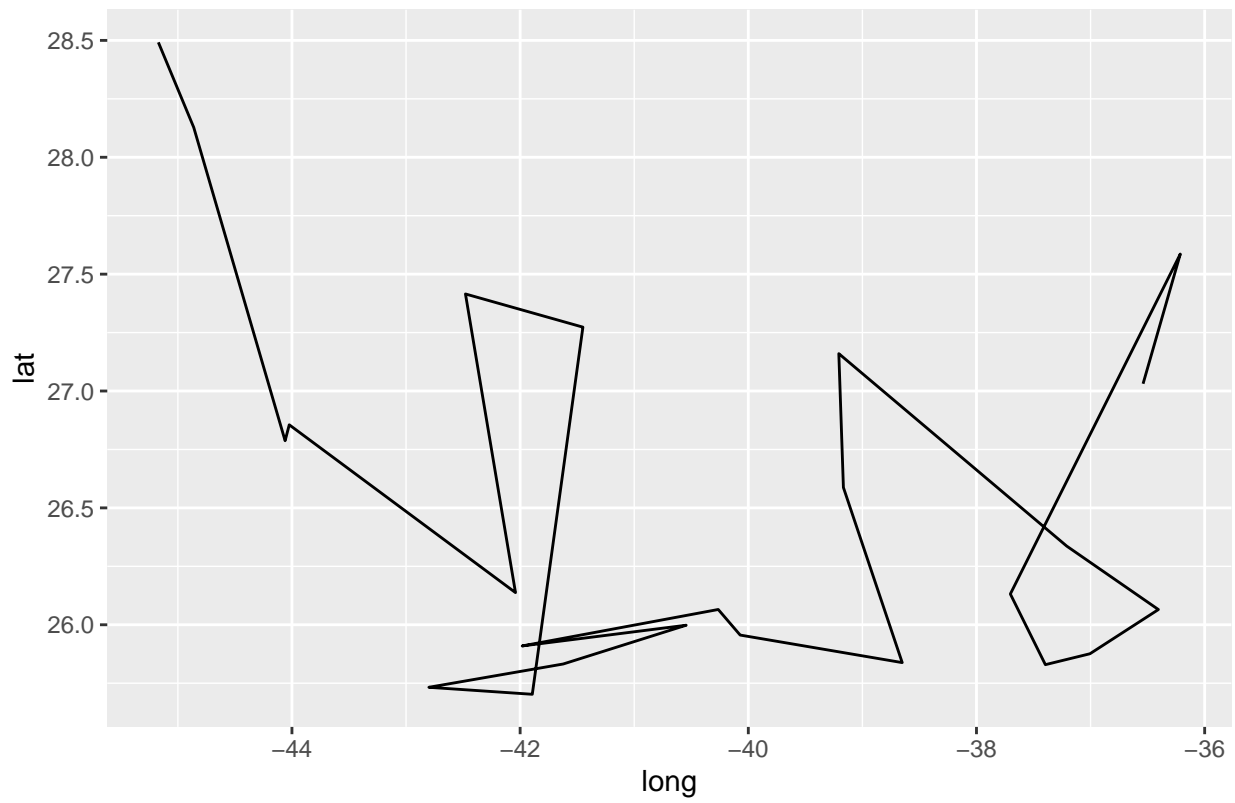
./collar-data-G7-2016-02-26.txt



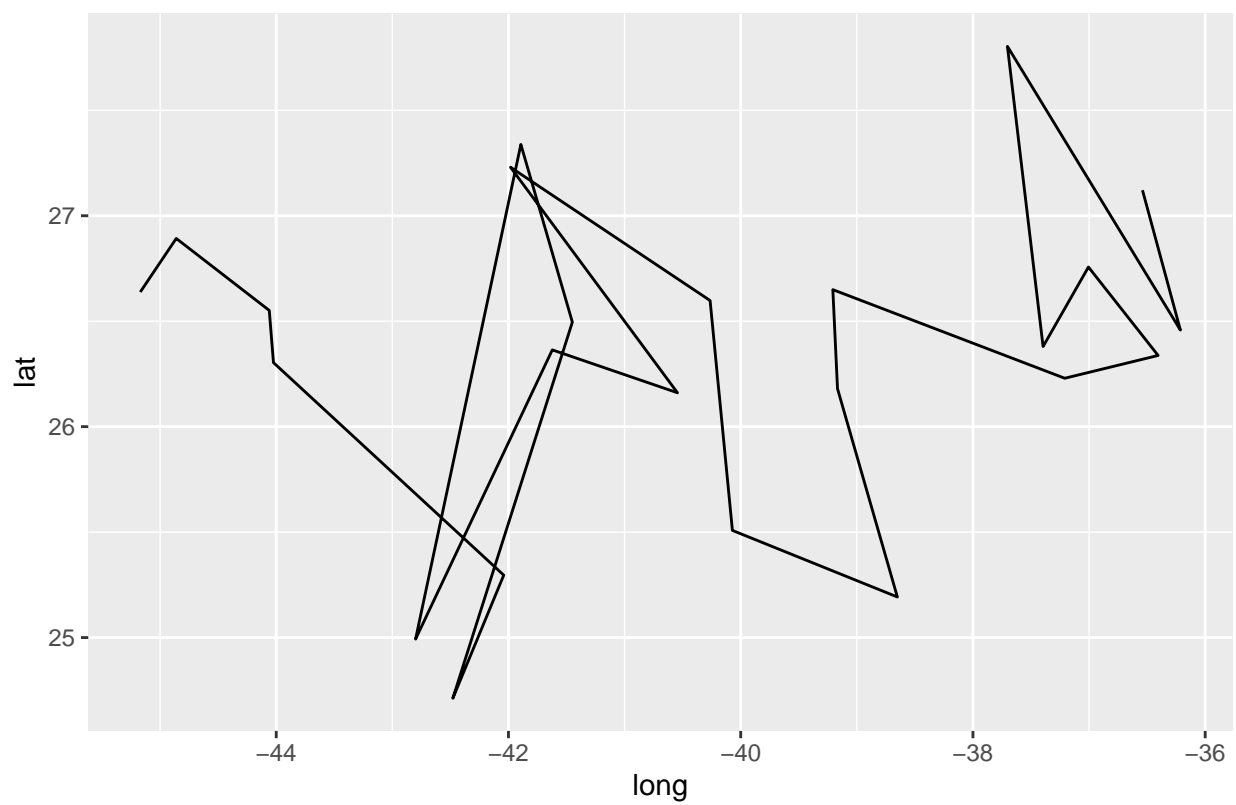
./collar-data-H8-2016-02-26.txt

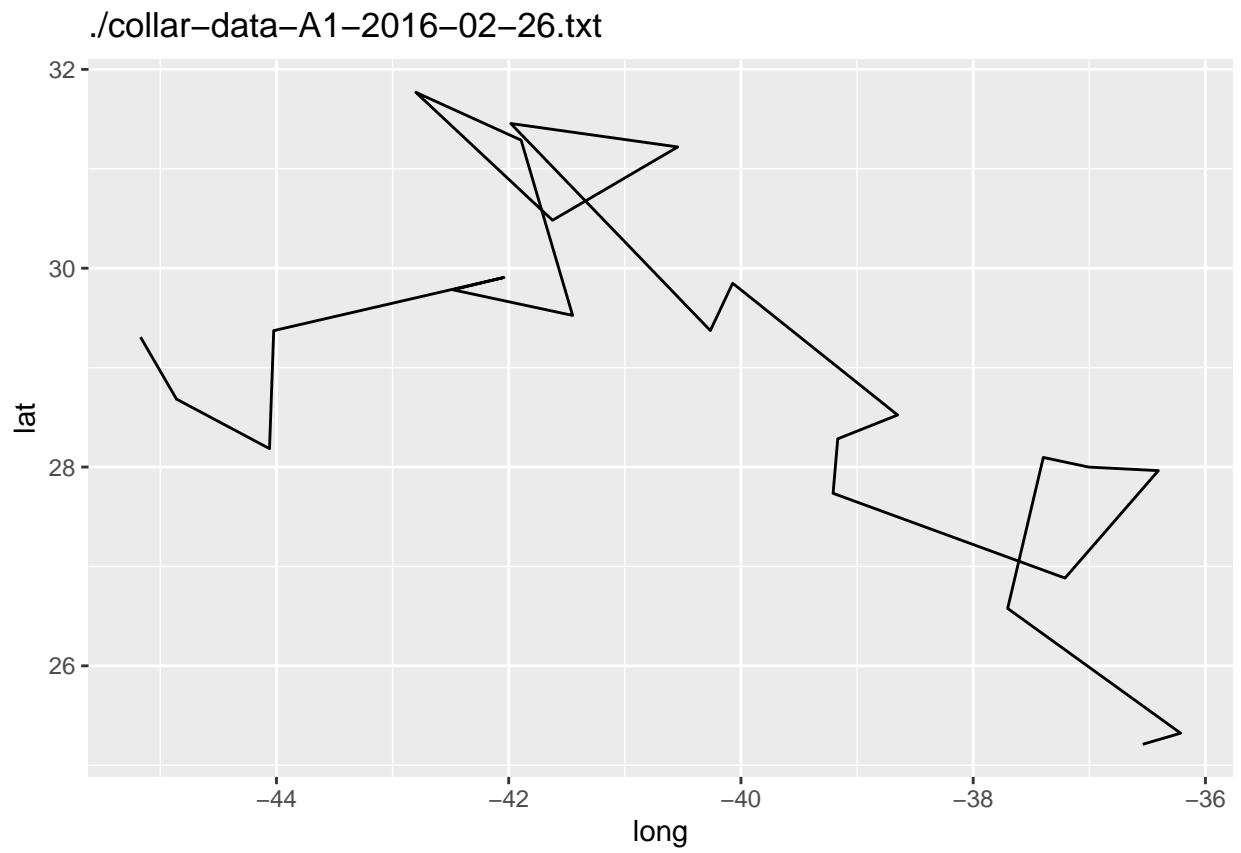


./collar-data-l9-2016-02-26.txt



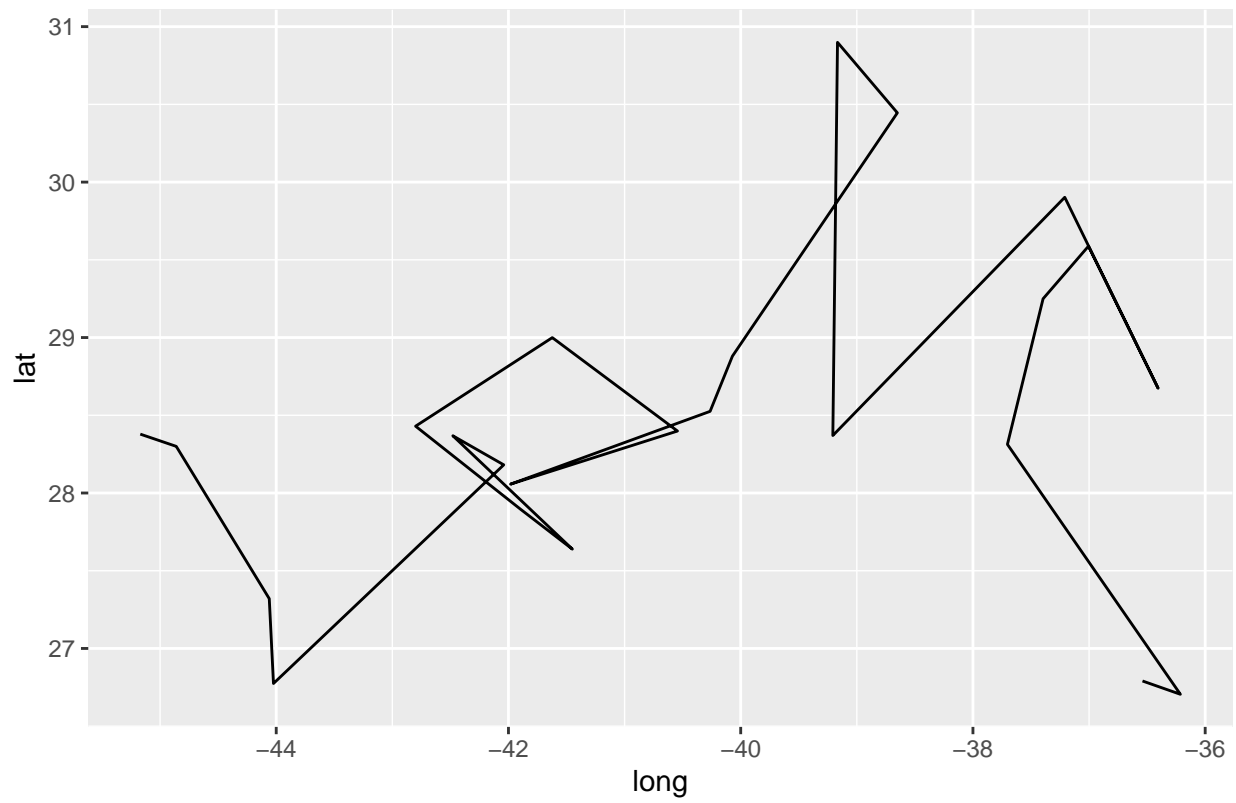
./collar-data-J10-2016-02-26.txt



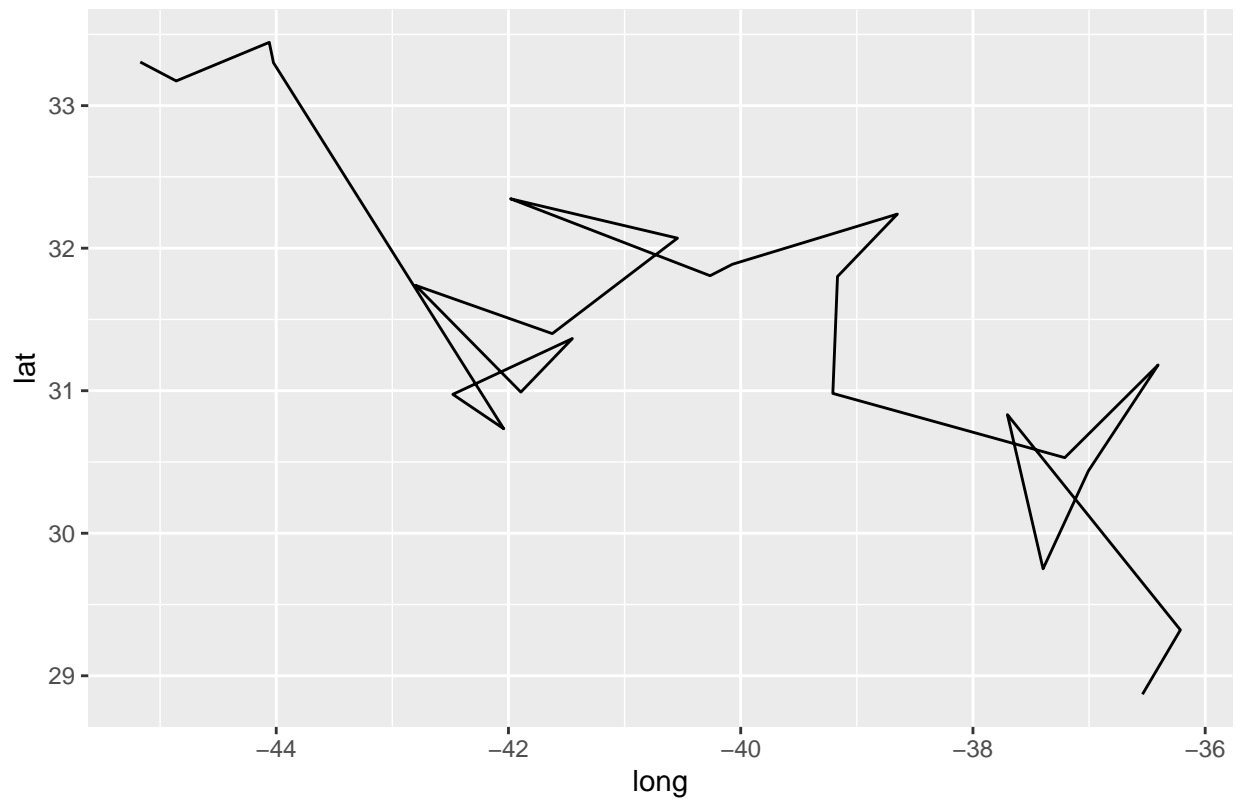


3b.

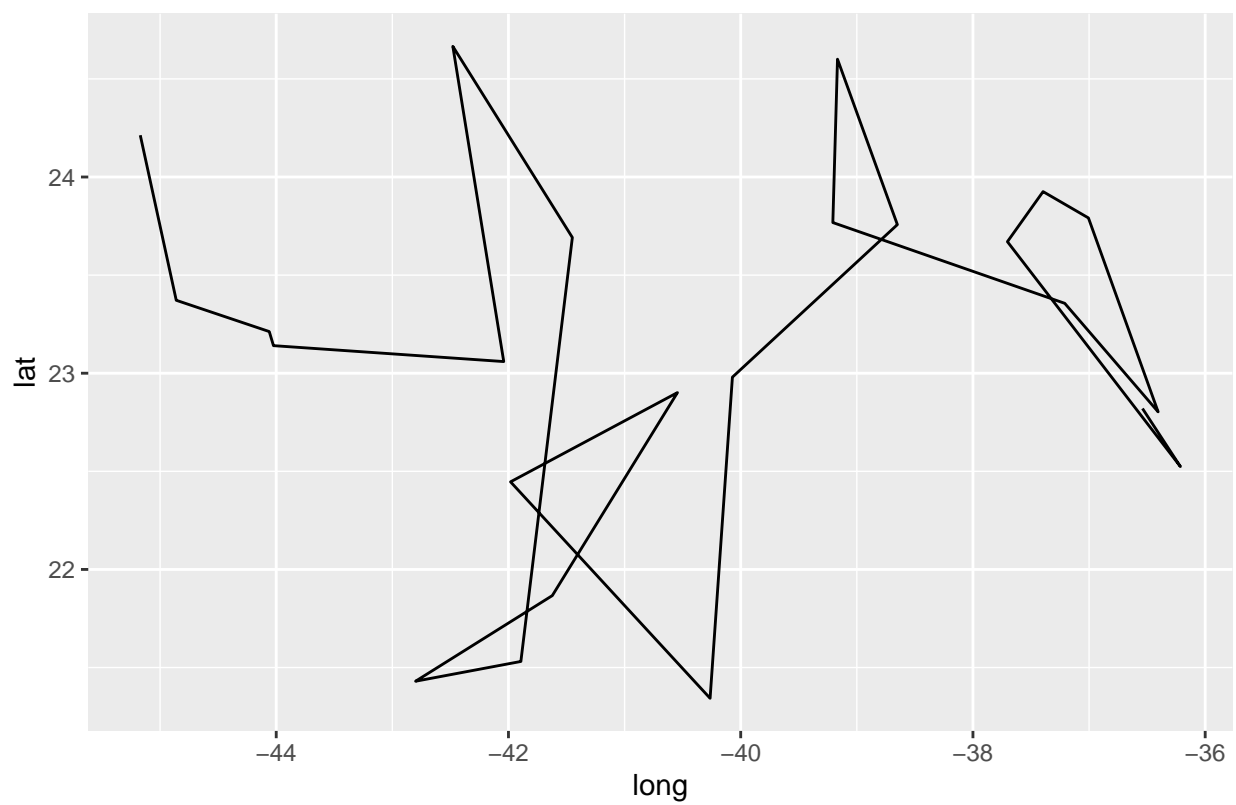
./collar-data-B2-2016-02-26.txt



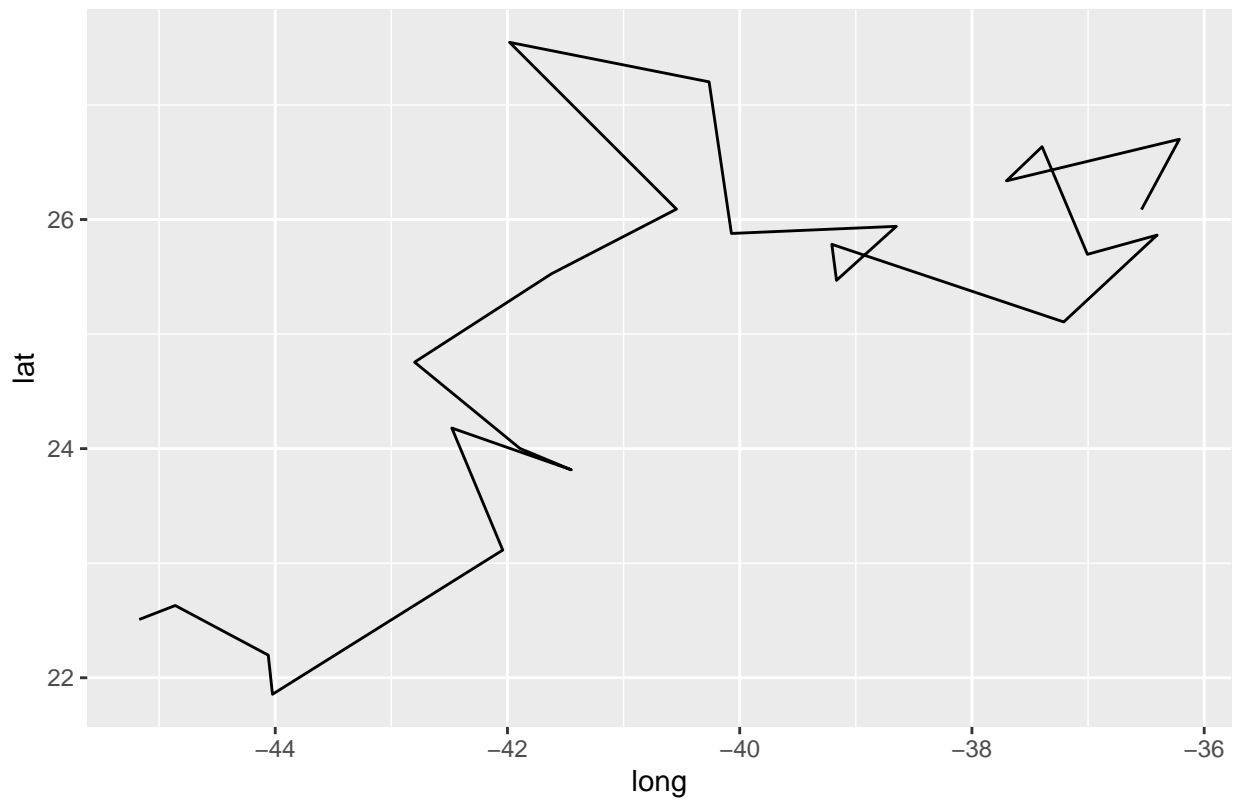
./collar-data-C3-2016-02-26.txt



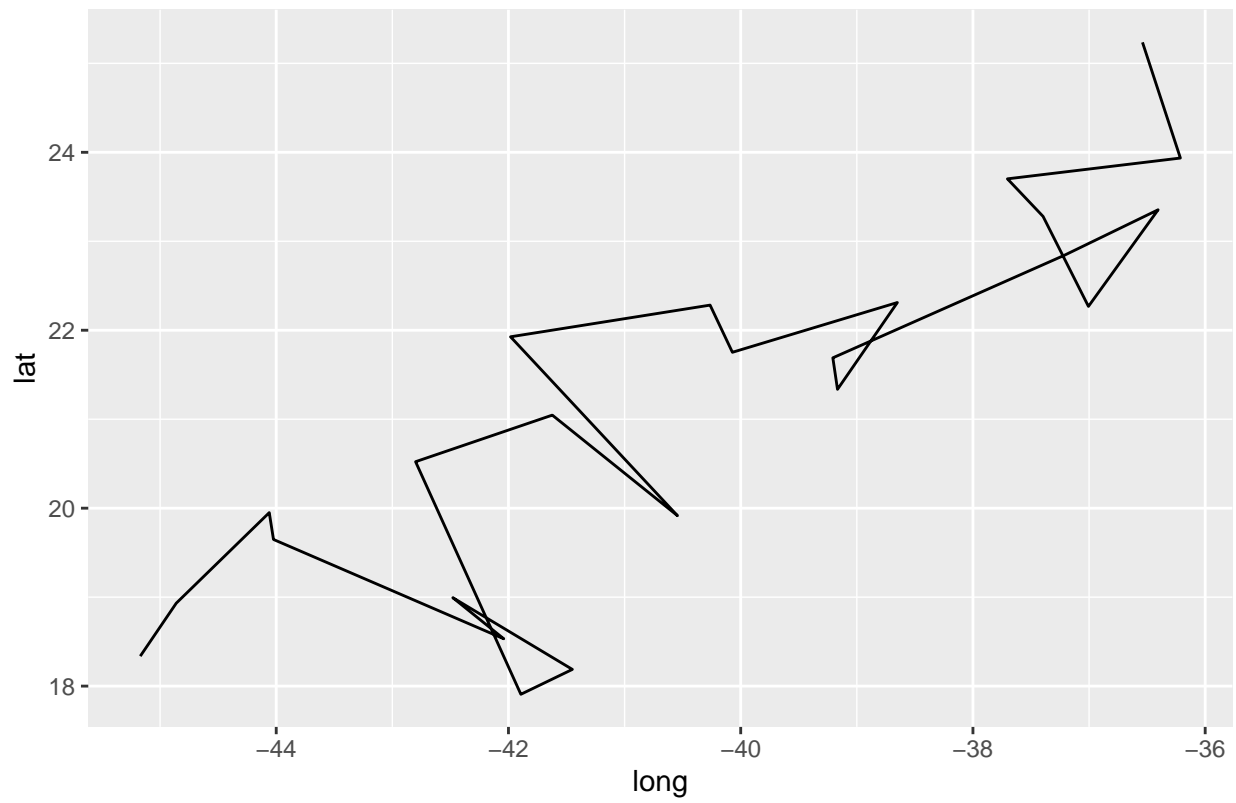
./collar-data-D4-2016-02-26.txt



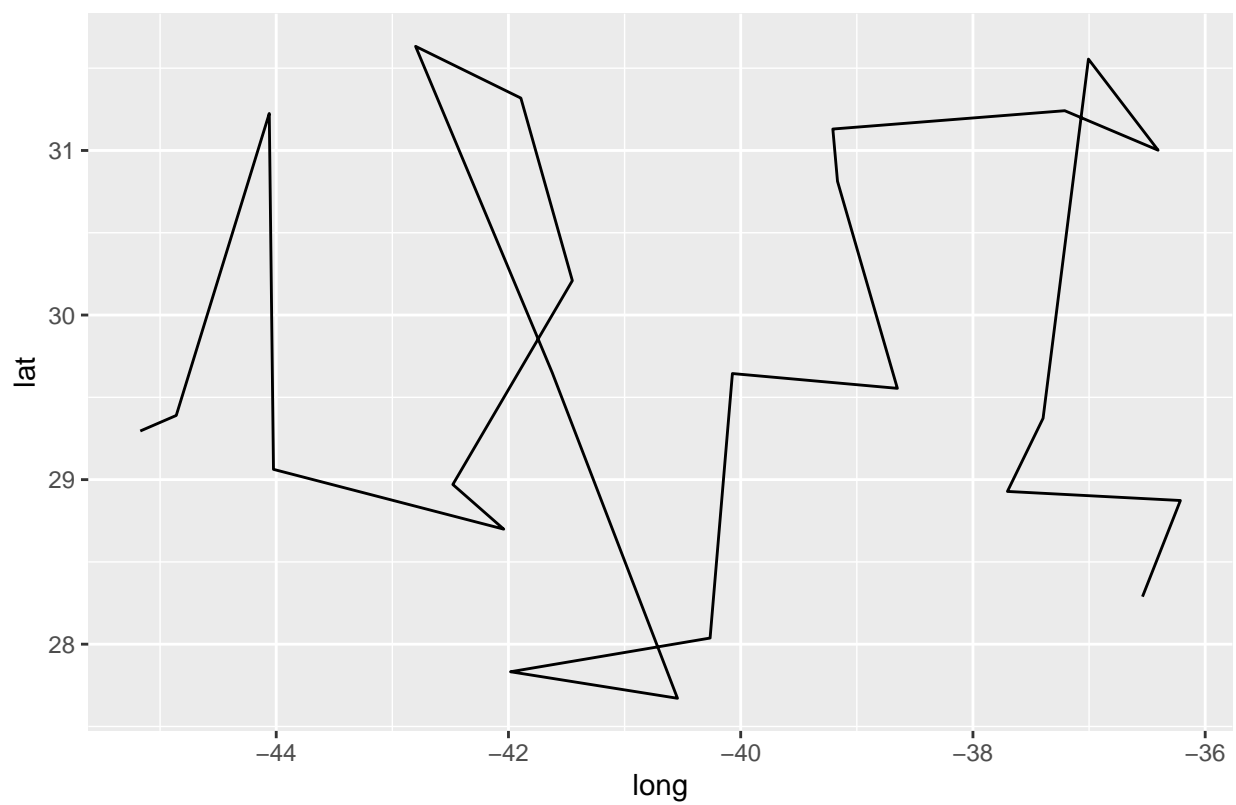
./collar-data-E5-2016-02-26.txt



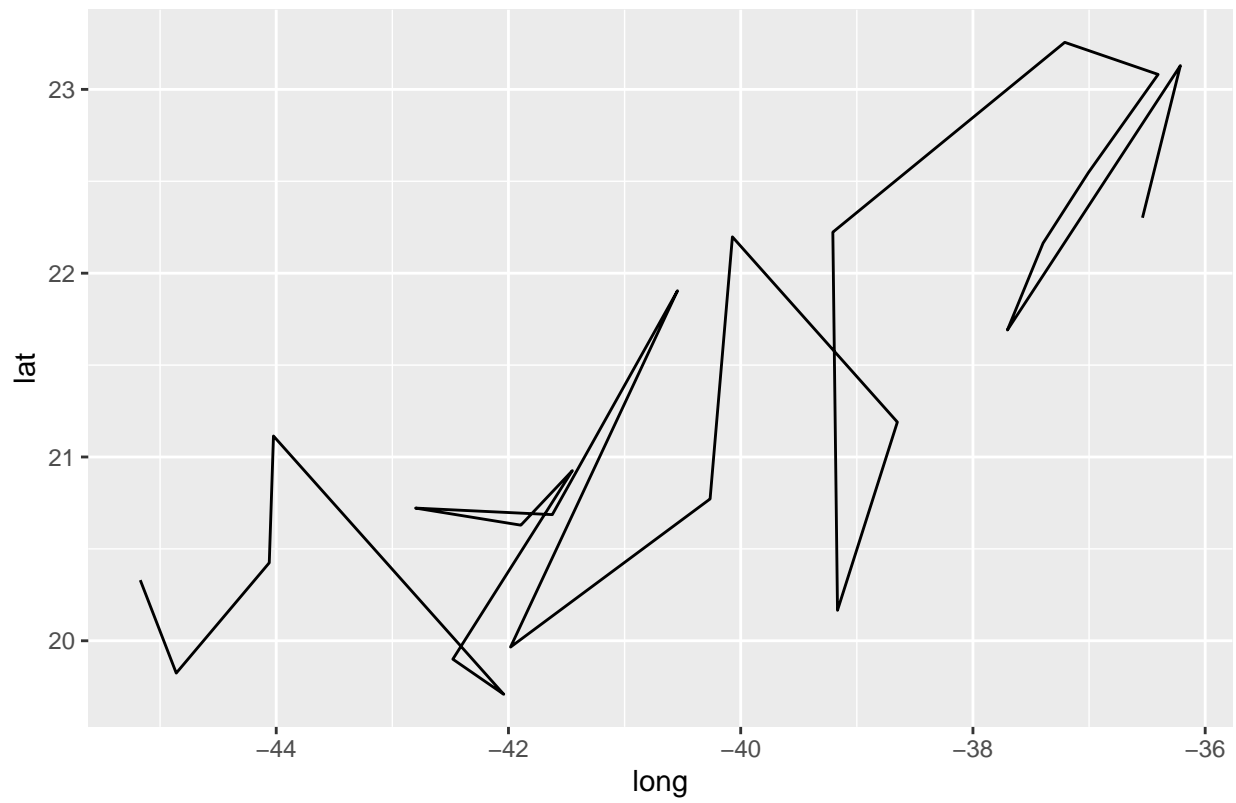
./collar-data-F6-2016-02-26.txt



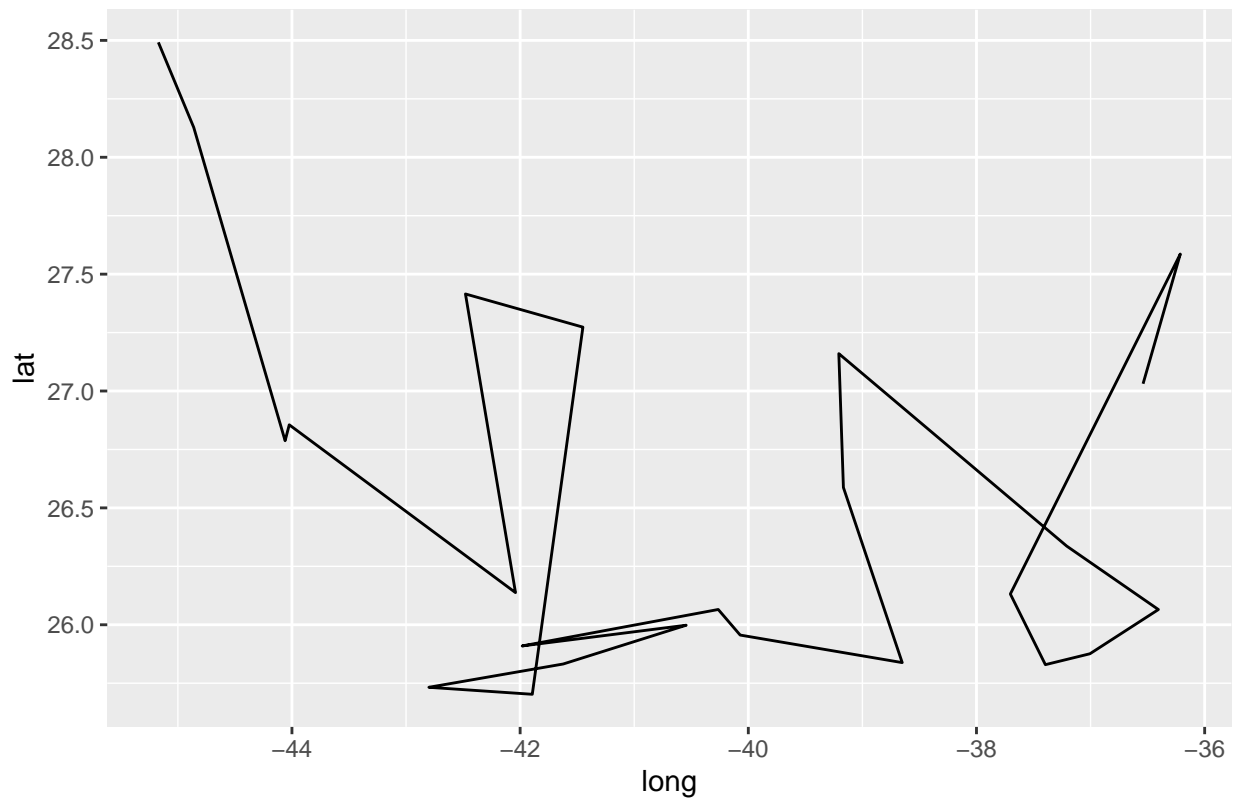
./collar-data-G7-2016-02-26.txt



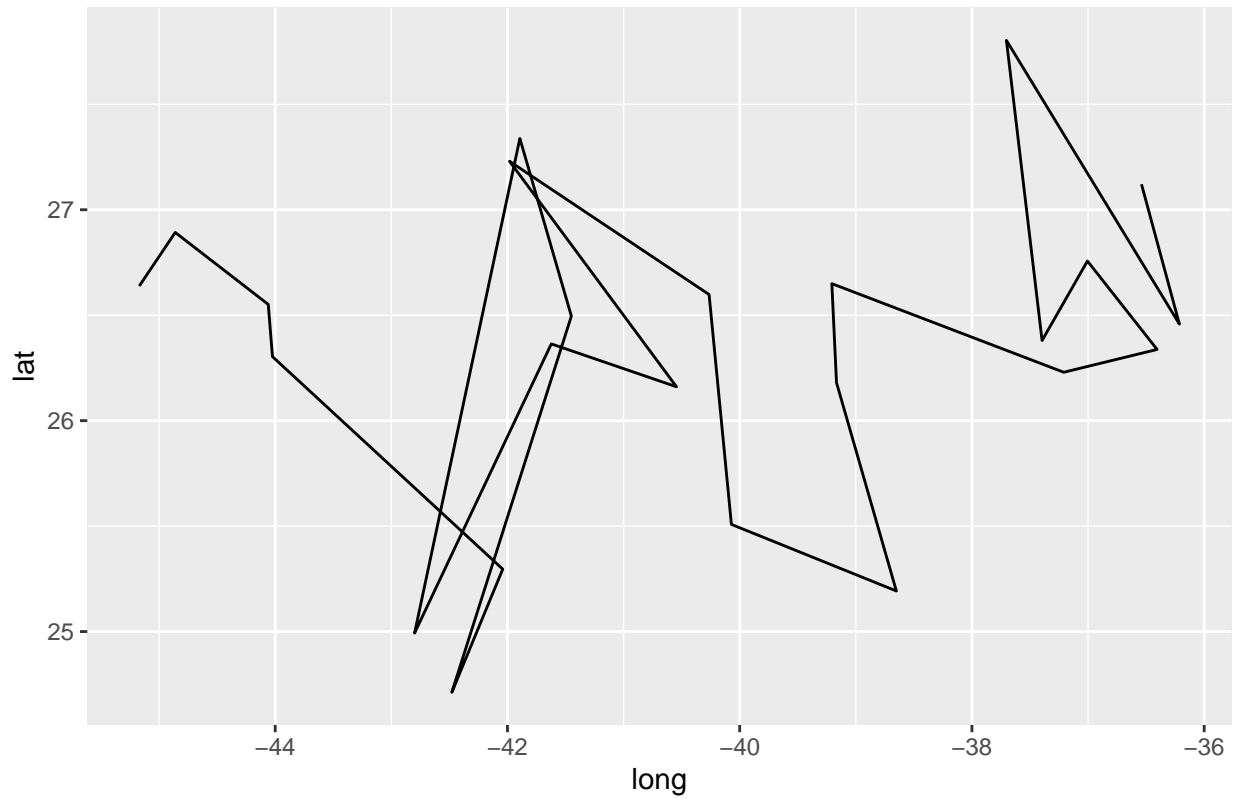
./collar-data-H8-2016-02-26.txt



./collar-data-l9-2016-02-26.txt



./collar-data-J10-2016-02-26.txt



##	file_name	max_lat	min_lat	observations
## 1	./collar-data-A1-2016-02-26.txt	31.76912	25.21080	24
## 2	./collar-data-B2-2016-02-26.txt	30.89907	26.70509	24
## 3	./collar-data-C3-2016-02-26.txt	33.44421	28.86998	24
## 4	./collar-data-D4-2016-02-26.txt	24.66598	21.34315	24
## 5	./collar-data-E5-2016-02-26.txt	27.54663	21.85565	24
## 6	./collar-data-F6-2016-02-26.txt	25.23623	17.90788	24
## 7	./collar-data-G7-2016-02-26.txt	31.63272	27.67120	24
## 8	./collar-data-H8-2016-02-26.txt	23.25601	19.70875	24
## 9	./collar-data-I9-2016-02-26.txt	28.49172	25.70252	24
## 10	./collar-data-J10-2016-02-26.txt	27.80325	24.71200	24