Week 13 Assignment

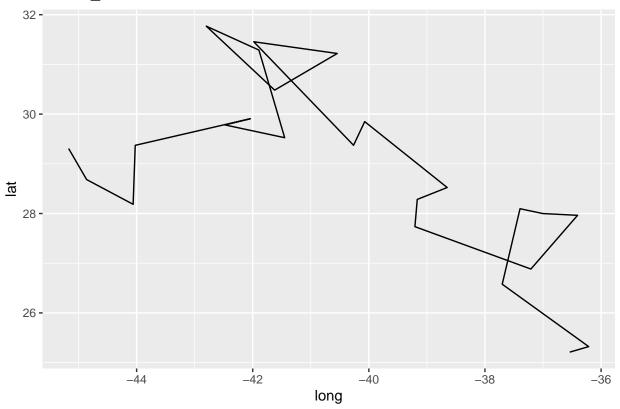
Ellen Bledsoe

2025-05-17

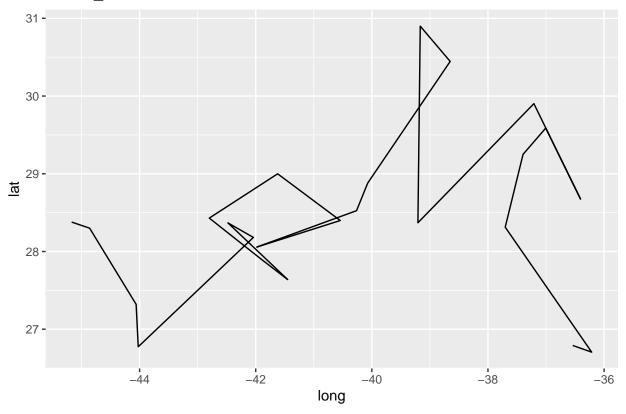
```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.4 v readr 2.1.5
## v forcats 1.0.0 v stringr 1.5.1
## v ggplot2 3.5.2
                    v tibble
                                3.2.1
## v lubridate 1.9.4
                      v tidyr
                                 1.3.1
## v purrr
             1.0.4
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
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
## [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
                  <dbl> <dbl>
##
     <chr>
                   18.5 24342.
## 1 Stegosauria
## 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.
## [1] "3a"
```

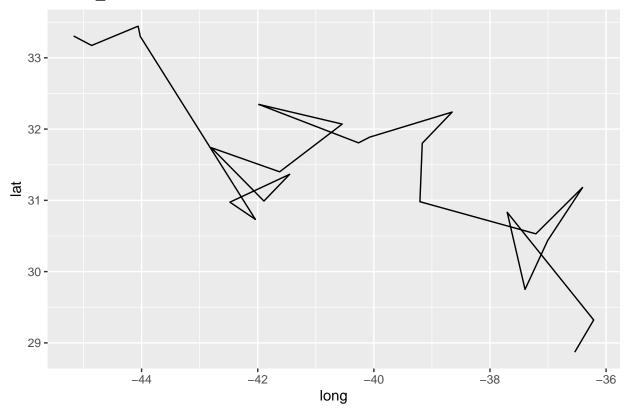
../data_raw//collar-data-A1-2016-02-26.txt



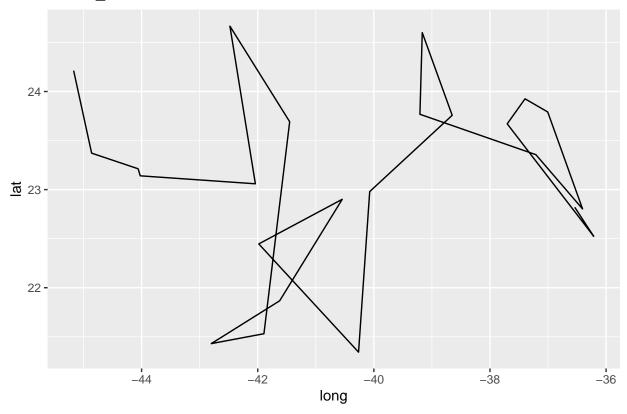
../data_raw//collar-data-B2-2016-02-26.txt



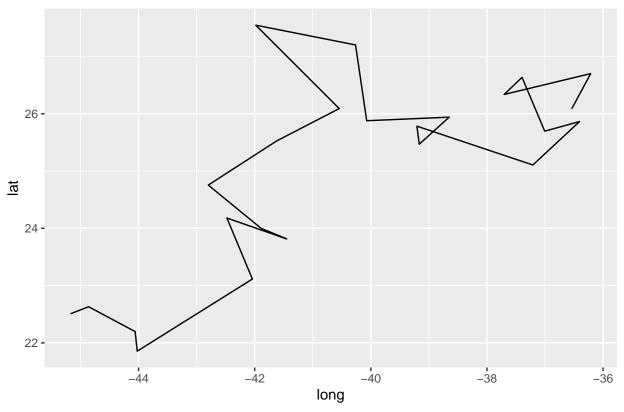
../data_raw//collar-data-C3-2016-02-26.txt



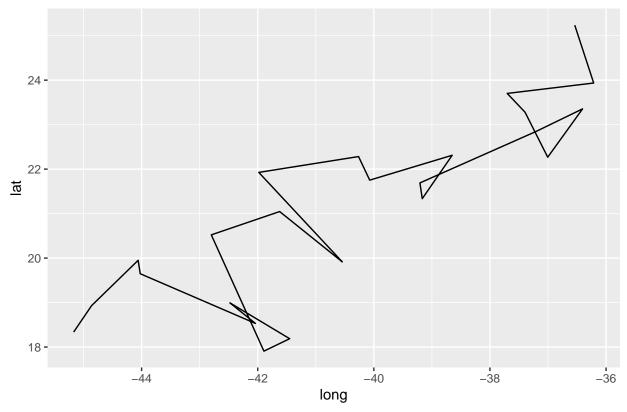
../data_raw//collar-data-D4-2016-02-26.txt



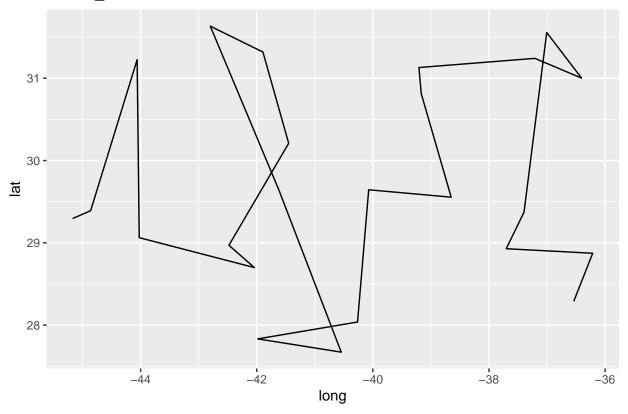
../data_raw//collar-data-E5-2016-02-26.txt



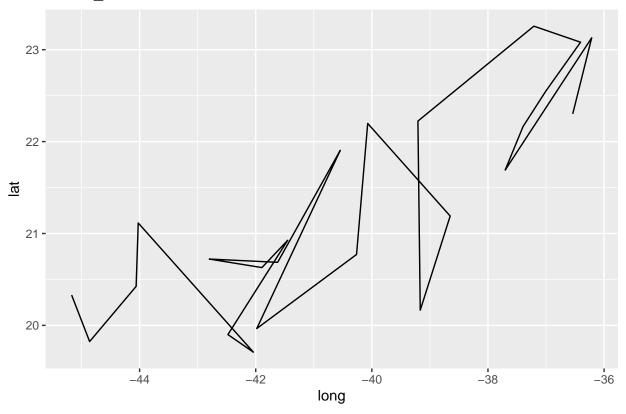
../data_raw//collar-data-F6-2016-02-26.txt



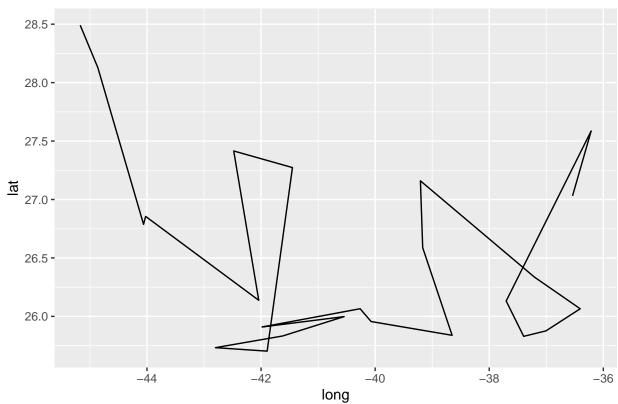
../data_raw//collar-data-G7-2016-02-26.txt



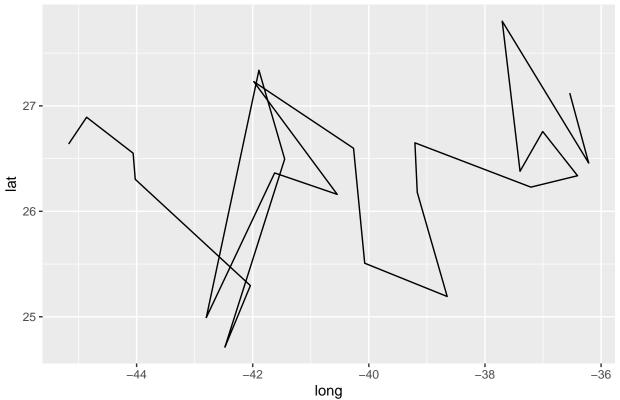
../data_raw//collar-data-H8-2016-02-26.txt

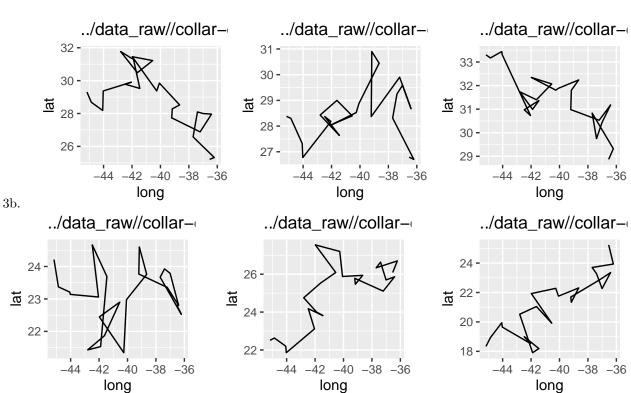




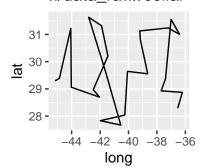


../data_raw//collar-data-J10-2016-02-26.txt

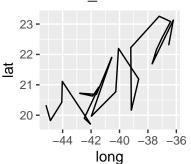




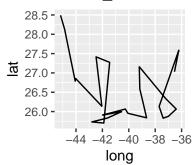
../data_raw//collar-



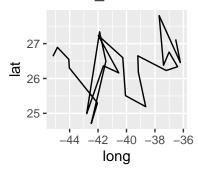
../data_raw//collar-



../data_raw//collar-



../data raw//collar-



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

4. DNA or RNA (20 points)

4b.

[1] "DNA"

[1] "RNA"

[1] "UNKNOWN"

4c.

[1] "DNA"

[1] "RNA"

[1] "UNKNOWN"

[1] "RNA"

[1] "RNA"

4d.

Warning: `as.tibble()` was deprecated in tibble 2.0.0.

```
## i Please use `as_tibble()` instead.
## i The signature and semantics have changed, see `?as_tibble`.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
## # A tibble: 5 x 2
##
    type
           sequence
##
    <chr>
           <chr>>
## 1 DNA
           ## 2 RNA
           gauuauuccccacaagggagugggauuaggagcugcaucauuuacaagagcagaauguuucaaaugcau
\verb|## 3 UNKNOWN gaaagcaagaaaaggcaggcgaggaaggaaggggggaaacc|
## 4 RNA
            guuuccuacaguauuugaugagaaugagaguuuacuccuggaagauaauauuagaauguuuacaacugc~
## 5 RNA
           gauaaggaagaugaagacuuucaggaaucuaauaaaaugcacuccaugaauggauucauguaugggaau~
4e. OPTIONAL
##
                               ##
##
                               gauuauuccccacaaagggagugggauuaggagcugcaucauuuacaagagcagaauguuucaaaugca
##
##
                                                     gaaagcaagaaaggcaggcgaggaaggaaggagggggaaac
##
##
  guuuccuacaguauuugaugagaaugagaguuuacuccuggaagauaauauuagaauguuuacaacugcaccugaucagguggauaaggaagaugaagac
##
##
                      gauaaggaagaugaagacuuucaggaaucuaauaaaaugcacuccaugaauggauucauguaugggaaucagccgggu
##
4f. OPTIONAL
## # A tibble: 5 x 2
## # Rowwise:
##
    type
           sequences
    <chr>
            <chr>
## 1 DNA
           {\tt ttgaatgccttacaactgatcattacacaggcggcatgaagcaaaaatatactgtgaaccaatgcaggcg}
## 2 RNA
            gauuauuccccacaaagggagugggauuaggagcugcaucauuuacaagagcagaauguuucaaaugcau\\
\verb|## 3 UNKNOWN gaaagcaagaaaaggcaggcgaggaagaaggggggaaaacc|
```

guuuccuacaguauuugaugagaaugagaguuuacuccuggaagauaauauuagaauguuuacaacugc~

gauaaggaagaugaagacuuucaggaaucuaauaaaaugcacuccaugaauggauucauguaugggaau~

"DNA

"RNA

"RNA

"RNA

"UNKNOWN

4 RNA

5 RNA