Week12_Assignment

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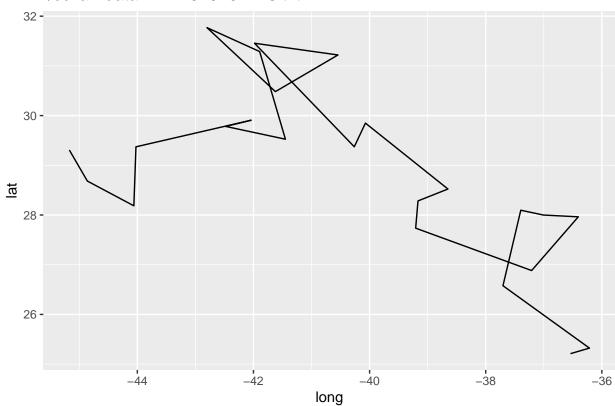
```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
                                  2.1.5
## v dplyr 1.1.4
                       v readr
## v forcats 1.0.0
                      v stringr 1.5.1
## v ggplot2 3.5.1
                    v tibble
                                   3.2.1
## 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
1e.
## [1] 3.85 5.28 4.48
```

2. Size Estimates by Name (30 pts)

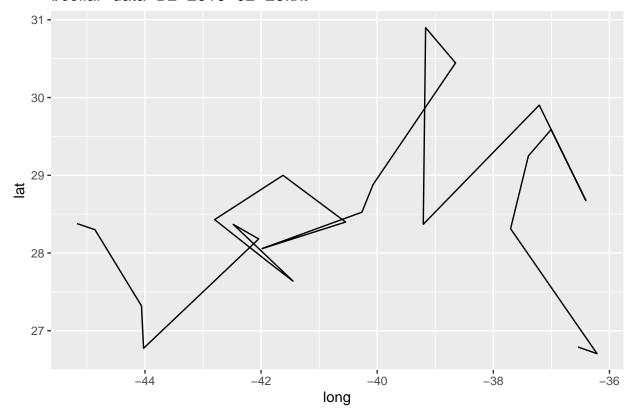
```
## Rows: 500 Columns: 2
## -- Column specification ------
## Delimiter: ","
## chr (1): species
## dbl (1): lengths
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
2a.
## [1] 24341.68 27017.90 67453.38 22114.19 53884.76 52026.34
2b.
## # A tibble: 6 x 3
## 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)

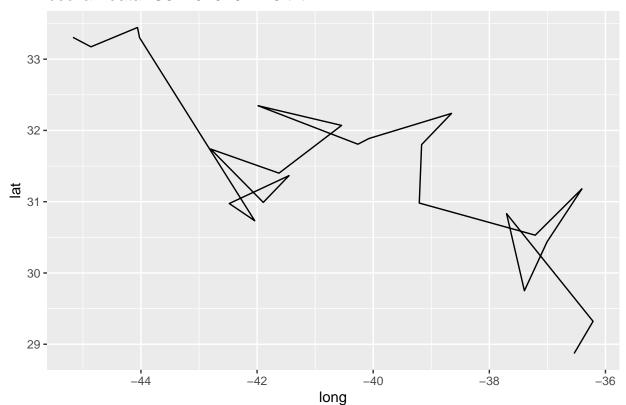
./collar-data-A1-2016-02-26.txt



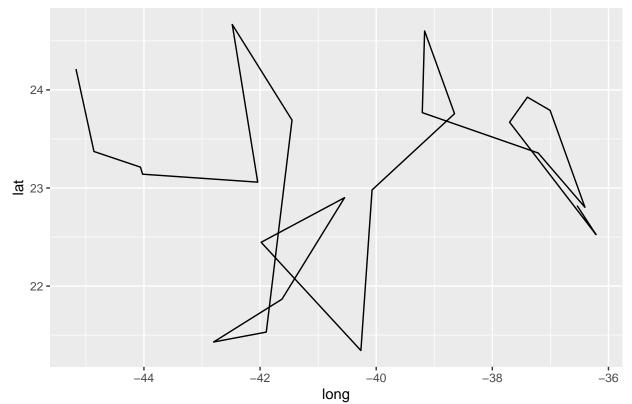
^{3a.} ./collar-data-B2-2016-02-26.txt



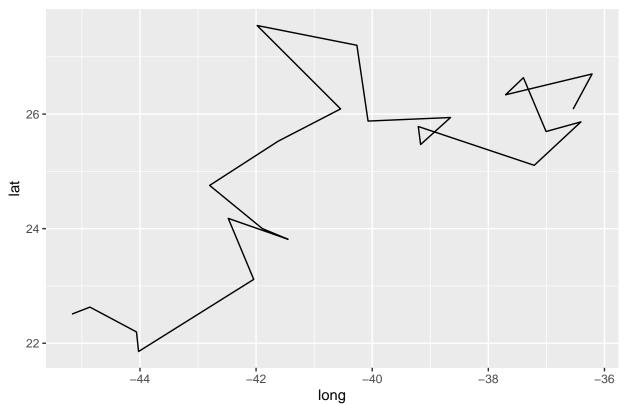
./collar-data-C3-2016-02-26.txt



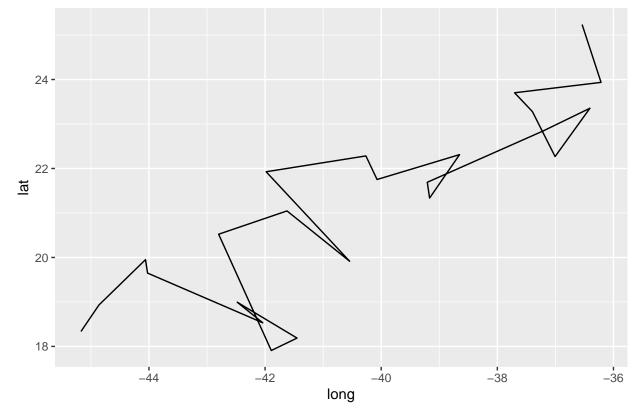
./collar-data-D4-2016-02-26.txt



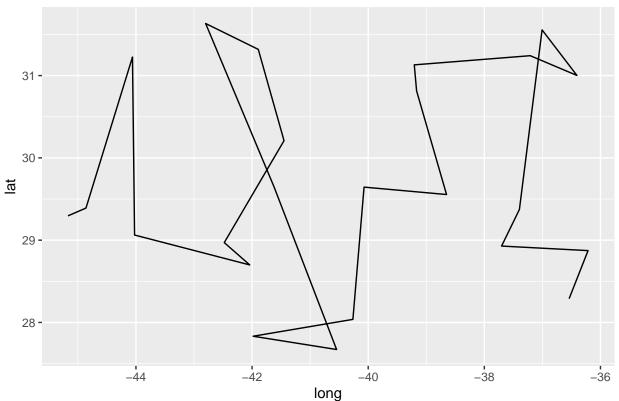
./collar-data-E5-2016-02-26.txt



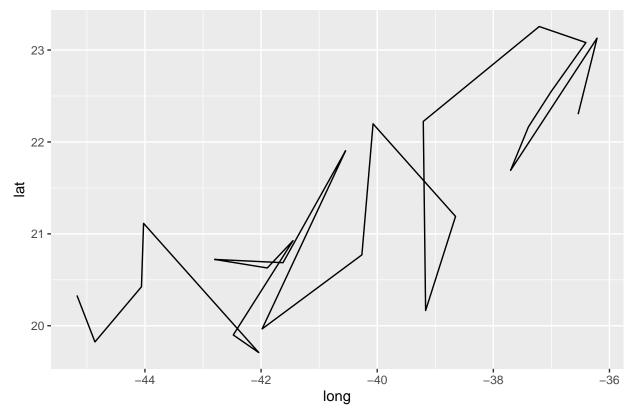
./collar-data-F6-2016-02-26.txt



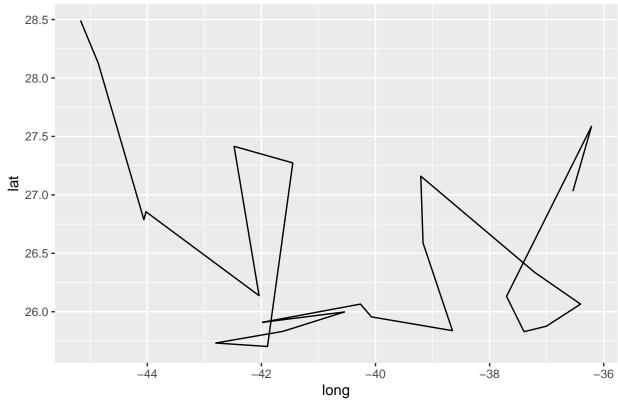
./collar-data-G7-2016-02-26.txt



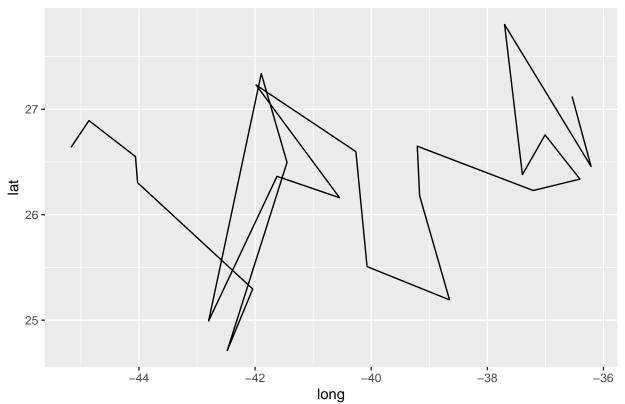
./collar-data-H8-2016-02-26.txt



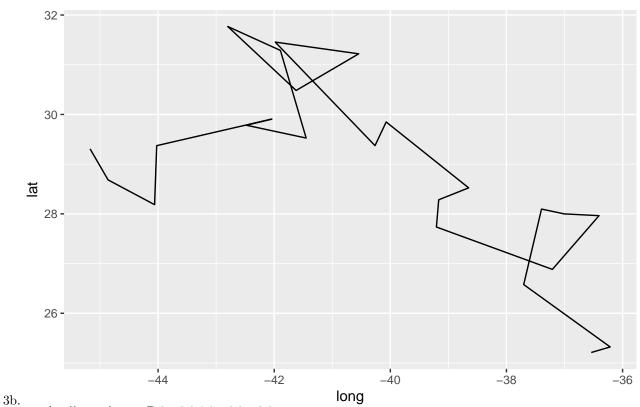
./collar-data-I9-2016-02-26.txt

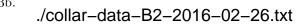


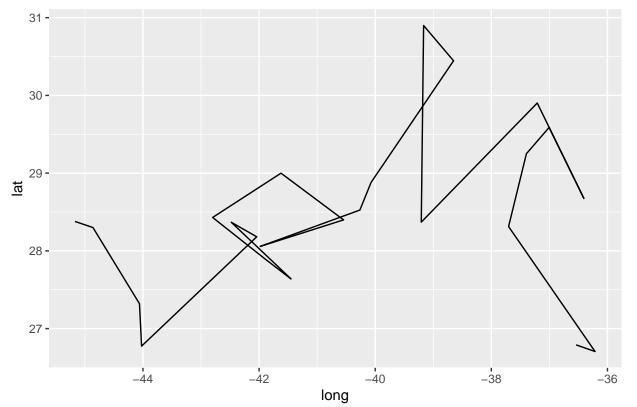
./collar-data-J10-2016-02-26.txt



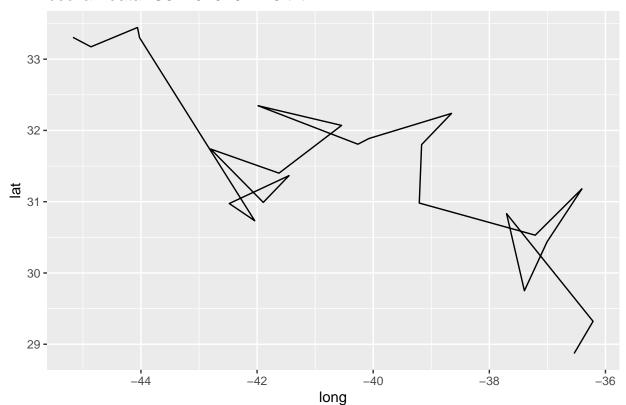
./collar-data-A1-2016-02-26.txt



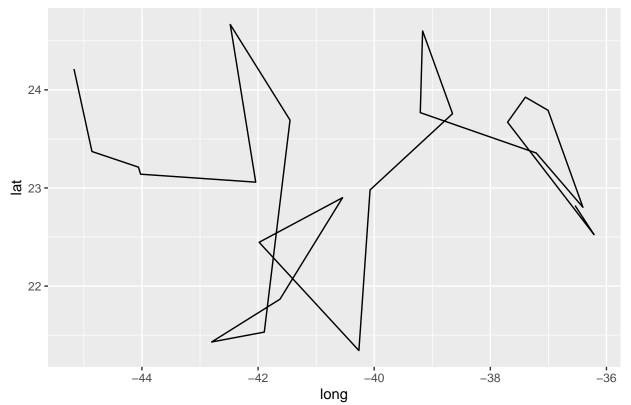




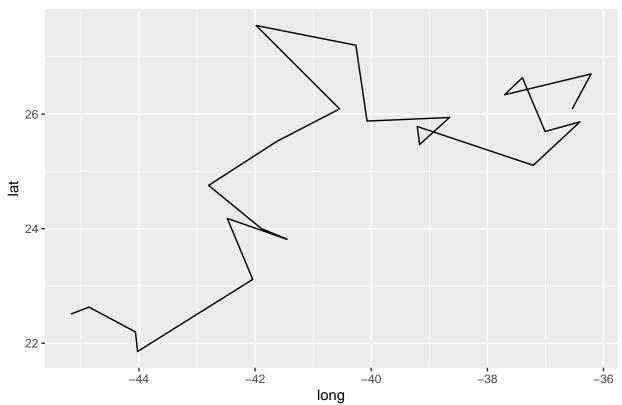
./collar-data-C3-2016-02-26.txt

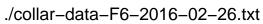


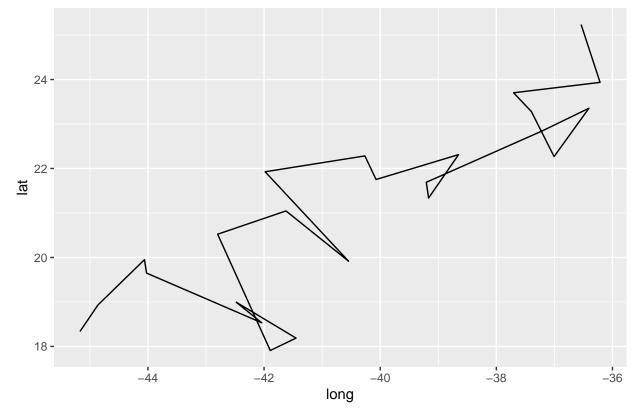
./collar-data-D4-2016-02-26.txt



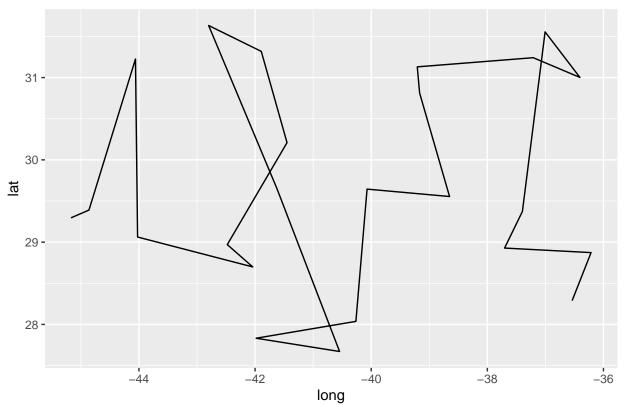
./collar-data-E5-2016-02-26.txt



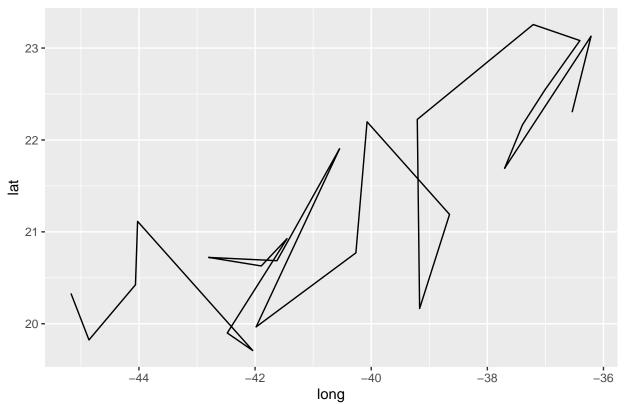




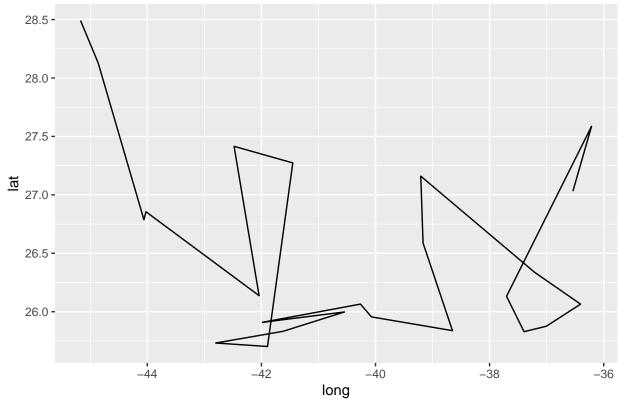
./collar-data-G7-2016-02-26.txt



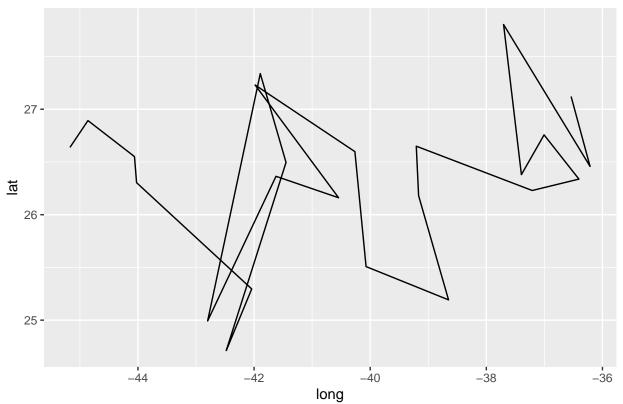
./collar-data-H8-2016-02-26.txt



./collar-data-I9-2016-02-26.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
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
             ttgaatgccttacaactgatcattacacaggcggcatgaagcaaaaatatactgtgaaccaatgcaggcg\\
## 2 RNA
             gauuauuccccacaaagggagugggauuaggagcugcaucauuuacaagagcagaauguuucaaaugcau
## 3 UNKNOWN gaaagcaagaaaaggcaggcgaggaaggaaggagggggaaacc
             guuuccuacaguauuugaugagaaugagaguuuacuccuggaagauaauauuagaauguuuacaacugc~
## 4 RNA
## 5 RNA
             gauaaggaagaugaagacuuucaggaaucuaauaaaaugcacuccaugaauggauucauguaugggaau~
```

4e. OPTIONAL

```
##
                             ##
##
                             gauuauuccccacaaagggagugggauuaggagcugcaucauuuacaagagcagaauguuucaaaugca
##
##
                                                 gaaag caagaaaag gcagg cgaggaag gaaggagg ggaaac \\
##
##
  guuuccuacaguauuugaugagaaugagaguuuacuccuggaagauaauauuagaauguuuacaacugcaccugaucagguggauaaggaagaugaagac
##
##
                     ##
4f. OPTIONAL
## # A tibble: 5 x 2
## # Rowwise:
    type
           sequences
##
    <chr>
           <chr>>
## 1 DNA
           \verb|ttgaatgccttacaactgatcattacacaggcggcatgaagcaaaaatatactgtgaaccaatgcaggcg|
## 2 RNA
           gauuauuccccacaagggagugggauuaggagcugcaucauuuacaagagcagaauguuucaaaugcau
## 3 UNKNOWN gaaagcaagaaaggcaggcgaggaaggaaggagggggaaacc
## 4 RNA
           guuuccuacaguauuugaugagaaugagaguuuacuccuggaagauaauauuagaauguuuacaacugc~
## 5 RNA
           {\tt gauaaggaagaugaagacuuucaggaaucuaauaaaaugcacuccaugaauggauucauguaugggaau^-}
```

"DNA

"RNA

"RNA

"RNA

"UNKNOWN