

FLife

Figs

L Kell & A Tidd

28 September, 2018

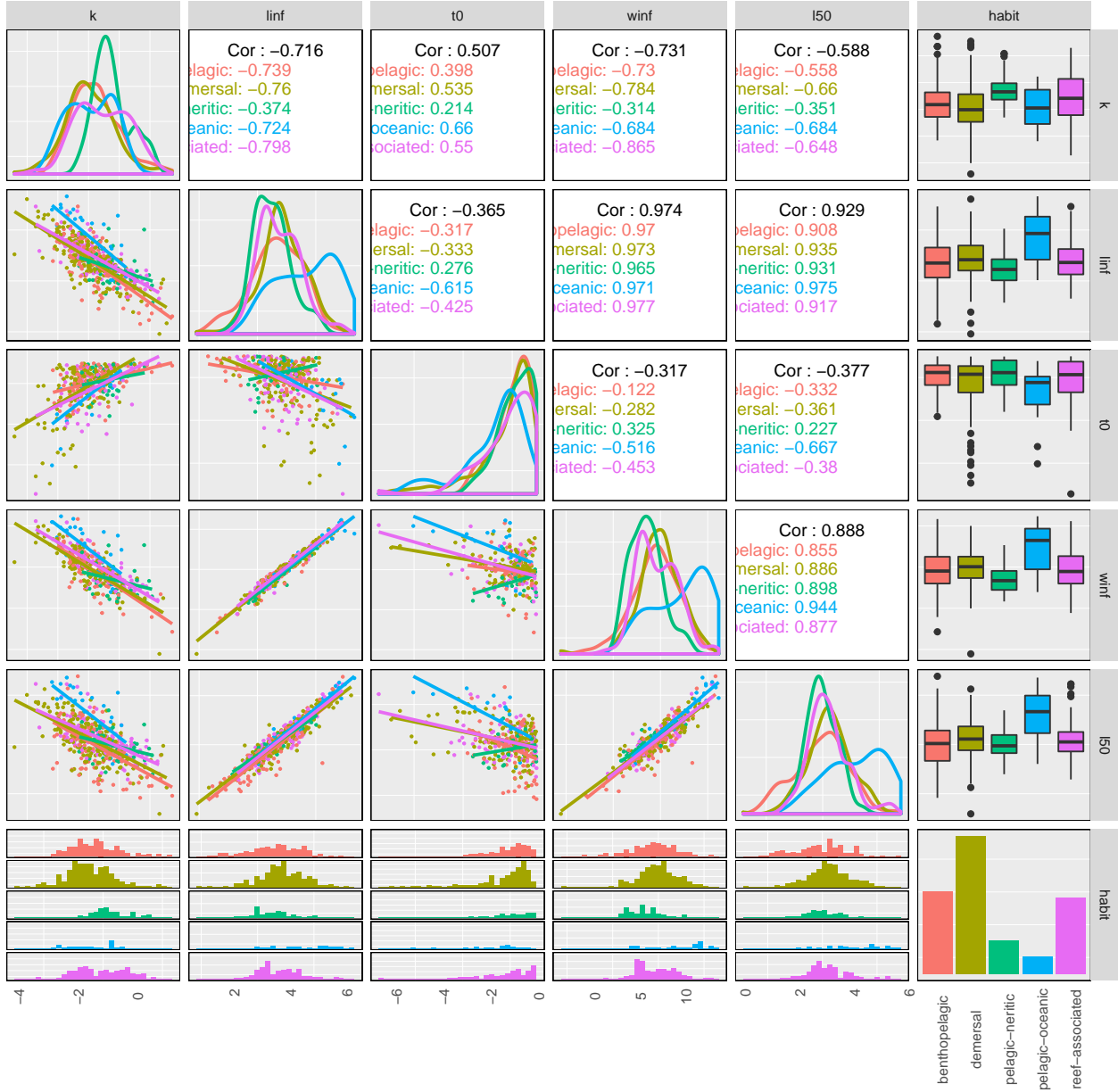


Figure 1 Life history relationships from Fishbase.

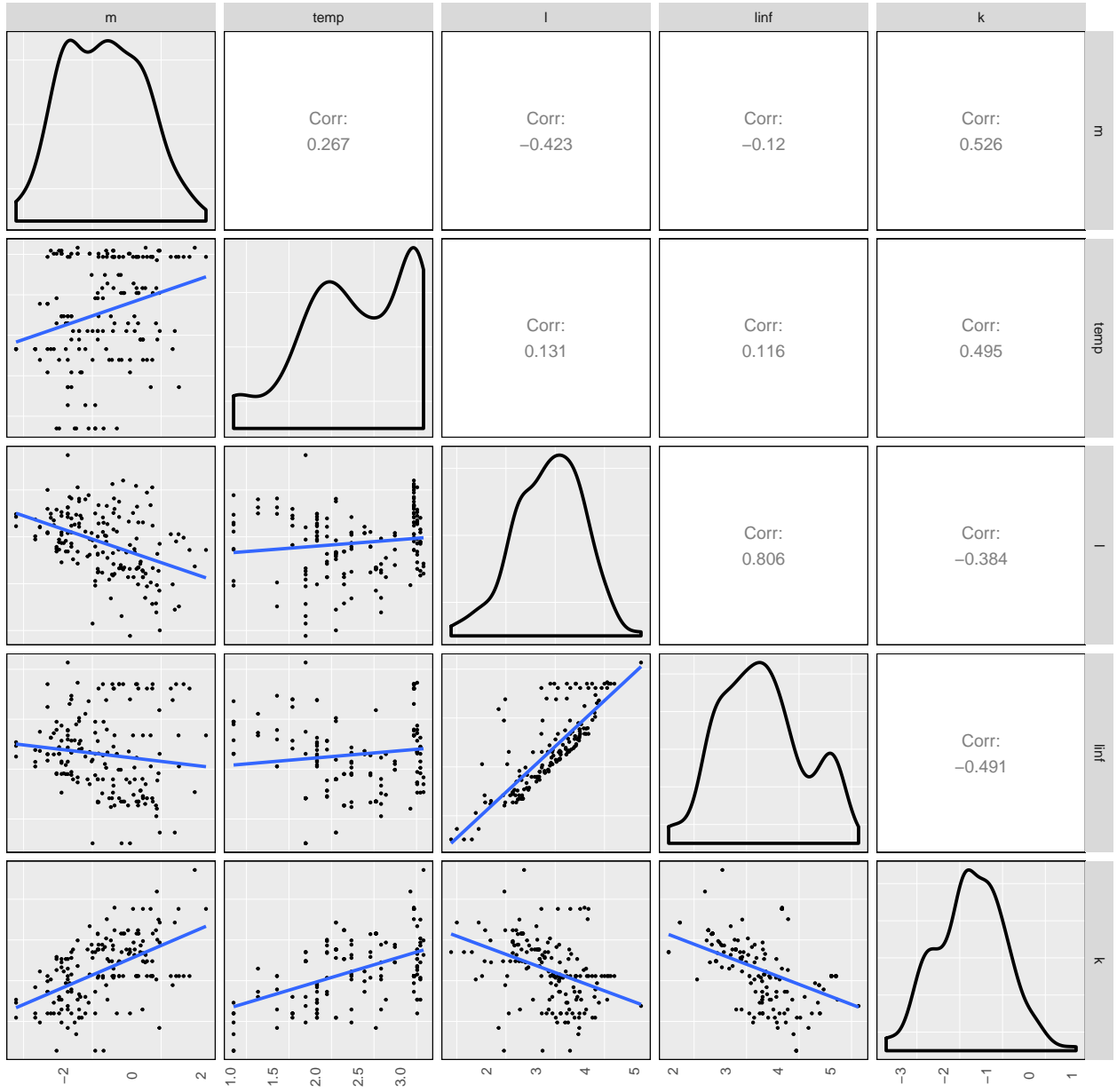


Figure 2 M from Gislason.

Software Versions

- R version 3.4.1 (2017-06-30)
- FLCore: 2.6.9
- FLBRP: 2.5.3
- FLasher: 0.5.0
- FLife: 3.2.1.9001
- ggplotFL: 2.6.4.9002
- **Compiled:** Fri Sep 28 10:33:06 2018

Author information

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Acknowledgements

This vignette and many of the methods documented in it were developed under the MyDas project funded by the Irish exchequer and EMFF 2014-2020. The overall aim of MyDas is to develop and test a range of assessment models and methods to establish Maximum Sustainable Yield (MSY) reference points (or proxy MSY reference points) across the spectrum of data-limited stocks.

References

Session Info

R version 3.4.1 (2017-06-30)
Platform: x86_64-pc-linux-gnu (64-bit)
Running under: Ubuntu 16.04.2 LTS

Matrix products: default
BLAS: /usr/lib/libblas/libblas.so.3.6.0
LAPACK: /usr/lib/lapack/liblapack.so.3.6.0

locale:

```
[1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
[3] LC_TIME=en_GB.UTF-8       LC_COLLATE=en_US.UTF-8
[5] LC_MONETARY=en_GB.UTF-8   LC_MESSAGES=en_US.UTF-8
[7] LC_PAPER=en_GB.UTF-8      LC_NAME=C
[9] LC_ADDRESS=C              LC_TELEPHONE=C
[11] LC_MEASUREMENT=en_GB.UTF-8 LC_IDENTIFICATION=C
```

attached base packages:

```
[1] stats      graphics  grDevices  utils      datasets  methods    base
```

other attached packages:

```
[1] FLife_3.2.1.9001      ggplotFL_2.6.4.9002 FLasher_0.5.0
[4] FLFishery_0.1.5       FLBRP_2.5.3          FLCore_2.6.9
[7] lattice_0.20-35       GGally_1.4.0         reshape_0.8.7
[10] dplyr_0.7.6           plyr_1.8.4           ggplot2_3.0.0
[13] knitr_1.20
```

loaded via a namespace (and not attached):

```
[1] Rcpp_0.12.18          pillar_1.1.0         compiler_3.4.1
[4] RColorBrewer_1.1-2    bindr_0.1.1          tools_3.4.1
[7] digest_0.6.15         evaluate_0.10.1      tibble_1.4.2
[10] gtable_0.2.0          pkgconfig_2.0.1      rlang_0.2.2
[13] Matrix_1.2-10         yaml_2.1.18          bindrcpp_0.2.2
[16] gridExtra_2.3         withr_2.1.2          stringr_1.3.1
[19] stats4_3.4.1          rprojroot_1.3-2      grid_3.4.1
[22] tidyselect_0.2.4      glue_1.2.0           R6_2.2.2
[25] rmarkdown_1.9         reshape2_1.4.3       purrr_0.2.5
[28] magrittr_1.5          codetools_0.2-15     backports_1.1.2
[31] scales_1.0.0          htmltools_0.3.6      MASS_7.3-47
[34] assertthat_0.2.0      colorspace_1.3-2     labeling_0.3
[37] stringi_1.2.3         lazyeval_0.2.1       munsell_0.5.0
```