

Some notes on the fishvise package

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November 16, 2013

```
## Loading required package: fishwise
## Loading required package: FLCore
## Loading required package: grid
## Loading required package: lattice
## Loading required package: MASS
## FLCore 2.5.0 development version
##
## Attaching package: 'FLCore'
## The following object is masked from 'package:plyr':
##
##     desc
## The following object is masked from 'package:ggplot2':
##
##     %+%
## The following object is masked from 'package:base':
##
##     cbind, rbind
```

- R version 3.0.1 (2013-05-16), x86_64-redhat-linux-gnu
- Base packages: base, datasets, graphics, grDevices, grid, methods, stats, utils
- Other packages: data.table 1.8.8, fishwise 0.01, FLCore 2.5.20131114, ggplot2 0.9.3.1, knitr 1.2, lattice 0.20-15, lubridate 1.3.0, MASS 7.3-27, plyr 1.8, RColorBrewer 1.0-5, reshape2 1.2.2, scales 0.2.3, stringr 0.6.2
- Loaded via a namespace (and not attached): colorspace 1.2-2, dichromat 2.0-0, digest 0.6.3, evaluate 0.4.4, formatR 0.8, gtable 0.1.2, labeling 0.2, munsell 0.4.2, proto 0.3-10, stats4 3.0.1, tools 3.0.1

```
[1] "This document was created in knitr"
```

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1 Preamble

some nice stuff

2 Testing

read.sum

```
sumfile <- read.sum("~/Pakkar/fishvise/inst/extdata/NSH.sum")
head(sumfile)

##   year      r      tsb      ssb      tYo      hYo dYo iYo      tF      hF dF iF
## 1 1948 67254871 6280750 3745254 689002 689002  0  0 0.172 0.172  0  0
## 2 1949 59233629 6022422 3153426 712831 712831  0  0 0.186 0.186  0  0
## 3 1950 81899218 6095126 3063290 657368 657368  0  0 0.196 0.196  0  0
## 4 1951 74850249 6205832 3002633 762990 762990  0  0 0.234 0.234  0  0
## 5 1952 74700698 6064726 2833434 829020 829020  0  0 0.246 0.246  0  0
## 6 1953 80117110 5950584 2788460 843234 843234  0  0 0.261 0.261  0  0

attributes(sumfile)

## $names
## [1] "year" "r"      "tsb"  "ssb"  "tYo"  "hYo"  "dYo"  "iYo"  "tF"   "hF"
## [11] "dF"   "iF"
##
## $class
## [1] "data.frame"
##
## $row.names
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
## [24] 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
## [47] 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
##
## $creator
## [1] "created from function fishvise:::read.sum"
##
## $name
## [1] "North Sea herring"
##
## $fleets
##      human      discard industrial
##          1          0          0
##
## $time
##   y1   y2   rA   a1   a2
## 1948 2011    0  NA   NA
##
## $mort
##      tF hF dF iF
## a1  2  2  0  0
## a2  6  6  0  0
##
## $units
##      r ssb tsb  tY  hY  dY  iY
## 1000 1000 1000 1000 1000 1000 1000
```

read.sen

```
senfile <- read.sen("~/r/Pakkar/fishvise/inst/extdata/NSH.sen")
head(senfile)

##   age variable    value    cv
## 1  0         n0 27757038 0.3204
## 2  1         n1 11251365 0.2219
## 3  2         n2  7564675 0.2488
## 4  3         n3  4210113 0.2214
## 5  4         n4 2289857 0.2178
## 6  5         n5 1861699 0.2166

attributes(senfile)

## $names
## [1] "age"      "variable" "value"    "cv"
##
## $row.names
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
## [24] 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
## [47] 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69
## [70] 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92
## [93] 93 94 95 96 97 98
##
## $class
## [1] "data.frame"
##
## $creator
## [1] "created from function fishvise:::read.sen"
##
## $name
## [1] "NorthSeaHerring"
##
## $fleets
##      human    discard industrial
##          1          0          0
##
## $time
##   y1   y2   rA   a1   a2
## 1947 2011   NA    0    8
##
## $mort
##      tF hF dF iF
## a1  2 NA NA NA
## a2  6 NA NA NA
##
## $units
## [1] NA
```

read.rbya

```
d <- read.rbya(paste(path.package("fishvise"), "extdata", sep = "/"))
attributes(d)

## $names
## [1] "year" "age" "N" "Z" "wU" "M" "tF" "pC" "wC" "wX"
## [11] "xN" "xC" "oC" "pU1" "oU1" "rU1" "pU2" "oU2" "rU2" "ssb"
##
## $class
## [1] "data.frame"
##
## $row.names
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
## [18] 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
## [35] 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
## [52] 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68
## [69] 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85
## [86] 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102
## [103] 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119
## [120] 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136
## [137] 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153
## [154] 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170
## [171] 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187
## [188] 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204
## [205] 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221
## [222] 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238
## [239] 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255
## [256] 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272
## [273] 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289
## [290] 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306
## [307] 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323
## [324] 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340
## [341] 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357
## [358] 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374
## [375] 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391
## [392] 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408
## [409] 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425
## [426] 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442
## [443] 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459
## [460] 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476
## [477] 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493
## [494] 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510
## [511] 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527
## [528] 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544
## [545] 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561
## [562] 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578
## [579] 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595
## [596] 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612
## [613] 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629
## [630] 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646
## [647] 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663
## [664] 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680
## [681] 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697
## [698] 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714
## [715] 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731
## [732] 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748
## [749] 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765
```

```

## [766] 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782
## [783] 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799
## [800] 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816
## [817] 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833
## [834] 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850
## [851] 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867
## [868] 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884
## [885] 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901
## [902] 902 903 904 905 906 907 908 909 910
##
## $creator
## [1] "created from function fishwise:::read.rbya"
##
## $name
## [1] NA
##
## $fleets
##      human      discard industrial
##      1         NA         NA
##
## $time
##   y1   y2   aR   a1   a2
## 1955 2019   NA    1   14
##
## $mort
##   tF hF dF iF
## a1 NA NA NA NA
## a2 NA NA NA NA
##
## $pm
##  1  2  3  4  5  6  7  8  9 10 11 12 13 14
##  0  0  0  0  0  0  0  0  0  0  0  0  0  0
##
## $pf
##  1  2  3  4  5  6  7  8  9 10 11 12 13 14
##  0  0  0  0  0  0  0  0  0  0  0  0  0  0
##
## $units
## [1] NA
##
## $run
## [1] NA
##
## $model
## [1] NA

```


read.rbya

```
d <- read.rby(paste(path.package("fishvise"), "extdata", sep = "/"))
attributes(d)

## $names
## [1] "year" "xxx" "refF" "pY" "ssb" "cSSB" "xxx" "refB" "tsb" "n1"
## [11] "R" "n6" "hr" "oY" "xxx" "pI1" "oI1" "pI2" "oI2" "pN"
## [21] "qY" "oU2" "pU2"
##
## $row.names
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
## [24] 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
## [47] 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
##
## $class
## [1] "data.frame"
##
## $creator
## [1] "created from function fishvise:::read.rby"
##
## $name
## [1] NA
##
## $fleets
##      human      discard industrial
##      1         NA         NA
##
## $time
##   y1   y2   aR   a1   a2
## 1955 2019   NA   NA   NA
##
## $mort
##   tF hF dF iF
## a1 NA NA NA NA
## a2 NA NA NA NA
##
## $pm
## [1] NA
##
## $pf
## [1] NA
##
## $units
## [1] NA
##
## $run
## [1] NA
##
## $model
## [1] NA
```