#V3.30

#C data file created using the SS\_writedat function in the R package r4ss

#C should work with SS version:

#C file write time: 2021-05-25 20:06:11

#

1978 #\_styr

2020 #\_endyr

1 #\_nseas

12 #\_months\_per\_seas

2 #\_Nsubseasons

1 #\_spawn\_month

1 #\_Ngenders

6 #\_Nages

1 #\_N\_areas

4 #\_Nfleets

#\_fleetinfo

#\_type surveytiming area units need\_catch\_mult fleetname

1 -1.00 1 1 0 purse\_seine #\_1

3 0.25 1 2 0 Acoustic\_survey #\_2

3 1.00 1 2 0 DEPM\_survey #\_3

3 0.83 1 2 0 Rec\_survey #\_4

#\_Catch data

#\_year season fleet catch catch\_se

-999 1 1 135000 0.05 #\_1

1978 1 1 145609 0.05 #\_2

1979 1 1 157241 0.05 #\_3

1980 1 1 194802 0.05 #\_4

1981 1 1 216517 0.05 #\_5

1982 1 1 206946 0.05 #\_6

1983 1 1 183837 0.05 #\_7

1984 1 1 206005 0.05 #\_8

1985 1 1 208439 0.05 #\_9

1986 1 1 187363 0.05 #\_10

1987 1 1 177696 0.05 #\_11

1988 1 1 161531 0.05 #\_12

1989 1 1 140961 0.05 #\_13

1990 1 1 149429 0.05 #\_14

1991 1 1 132587 0.05 #\_15

1992 1 1 130250 0.05 #\_16

1993 1 1 142495 0.05 #\_17

1994 1 1 136582 0.05 #\_18

1995 1 1 125280 0.05 #\_19

1996 1 1 116736 0.05 #\_20

1997 1 1 115814 0.05 #\_21

1998 1 1 108924 0.05 #\_22

1999 1 1 94091 0.05 #\_23

2000 1 1 85786 0.05 #\_24

2001 1 1 101957 0.05 #\_25

2002 1 1 99673 0.05 #\_26

2003 1 1 97831 0.05 #\_27

2004 1 1 98020 0.05 #\_28

2005 1 1 97345 0.05 #\_29

2006 1 1 87023 0.05 #\_30

2007 1 1 96469 0.05 #\_31

2008 1 1 101464 0.05 #\_32

2009 1 1 87740 0.05 #\_33

2010 1 1 89571 0.05 #\_34

2011 1 1 80403 0.05 #\_35

2012 1 1 54857 0.05 #\_36

2013 1 1 45818 0.05 #\_37

2014 1 1 27937 0.05 #\_38

2015 1 1 20595 0.05 #\_39

2016 1 1 22704 0.05 #\_40

2017 1 1 21911 0.05 #\_41

2018 1 1 15062 0.05 #\_42

2019 1 1 13759 0.05 #\_43

2020 1 1 22143 0.05 #\_44

-9999 0 0 0 0.00 #\_terminator

#\_CPUE\_and\_surveyabundance\_observations

#\_Units: 0=numbers; 1=biomass; 2=F; >=30 for special types

#\_Errtype: -1=normal; 0=lognormal; >0=T

#\_SD\_Report: 0=no sdreport; 1=enable sdreport

#\_Fleet Units Errtype SD\_Report

1 1 0 0 #\_purse\_seine

2 0 0 0 #\_Acoustic\_survey

3 30 0 0 #\_DEPM\_survey

4 0 0 0 #\_Rec\_survey

#

#\_CPUE\_data

#\_year seas index obs se\_log

1996 4 2 10171000 0.25 #\_1

1997 4 2 14601900 0.25 #\_2

1998 4 2 12214100 0.25 #\_3

1999 4 2 12159400 0.25 #\_4

2000 4 2 11489900 0.25 #\_5

2001 4 2 16679100 0.25 #\_6

2002 4 2 23341300 0.25 #\_7

2003 4 2 15953000 0.25 #\_8

2005 4 2 26570500 0.25 #\_9

2006 4 2 17968800 0.25 #\_10

2007 4 2 10355000 0.25 #\_11

2008 4 2 6297990 0.25 #\_12

2009 4 2 8596850 0.25 #\_13

2010 4 2 6724080 0.25 #\_14

2011 4 2 2848340 0.25 #\_15

2013 4 2 2573610 0.25 #\_16

2014 4 2 2861100 0.25 #\_17

2015 4 2 2241660 0.25 #\_18

2016 4 2 4349350 0.25 #\_19

2017 4 2 2392940 0.25 #\_20

2018 4 2 3347990 0.25 #\_21

2019 4 2 4627194 0.25 #\_22

2020 4 2 18105953 0.25 #\_23

1997 1 3 251387 0.25 #\_24

1999 1 3 436919 0.25 #\_25

2002 1 3 496379 0.25 #\_26

2005 1 3 481447 0.25 #\_27

2008 1 3 625026 0.25 #\_28

2011 1 3 226372 0.25 #\_29

2014 1 3 164613 0.25 #\_30

2017 1 3 282714 0.25 #\_31

2020 1 3 630692 0.25 #\_32

1997 10 4 881535 0.25 #\_33

1998 10 4 5496580 0.25 #\_34

1999 10 4 2396691 0.25 #\_35

2000 10 4 27739240 0.25 #\_36

2001 10 4 2865167 0.25 #\_37

2003 10 4 2355687 0.25 #\_38

2005 10 4 7452078 0.25 #\_39

2006 10 4 397637 0.25 #\_40

2007 10 4 1993687 0.25 #\_41

2008 10 4 3119792 0.25 #\_42

2013 10 4 547673 0.25 #\_43

2015 10 4 2115099 0.25 #\_44

2016 10 4 114422 0.25 #\_45

2017 10 4 93955 0.25 #\_46

2018 10 4 524781 0.25 #\_47

2019 10 4 5039175 0.25 #\_48

2020 10 4 6491801 0.25 #\_49

-9999 0 0 0 0.00 #\_terminator

0 #\_N\_discard\_fleets

#\_discard\_units (1=same\_as\_catchunits(bio/num); 2=fraction; 3=numbers)

#\_discard\_errtype: >0 for DF of T-dist(read CV below); 0 for normal with CV; -1 for normal with se; -2 for lognormal

#

#\_discard\_fleet\_info

#

#\_discard\_data

#

#\_meanbodywt

0 #\_use\_meanbodywt

#\_DF\_for\_meanbodywt\_T-distribution\_like

#

#\_population\_length\_bins

2 # length bin method: 1=use databins; 2=generate from binwidth,min,max below; 3=read vector

4 # binwidth for population size comp

8 # minimum size in the population (lower edge of first bin and size at age 0.00)

28 # maximum size in the population (lower edge of last bin)

1 #\_use\_lencomp

#

#\_len\_info

#\_mintailcomp addtocomp combine\_M\_F CompressBins CompError ParmSelect minsamplesize

0 1e-07 1 0 0 0 1 #\_purse\_seine

0 1e-07 1 0 0 0 1 #\_Acoustic\_survey

0 1e-07 1 0 0 0 1 #\_DEPM\_survey

0 1e-07 1 0 0 0 1 #\_Rec\_survey

6 #\_N\_lbins

#\_lbin\_vector

8 12 16 20 24 28 #\_lbin\_vector

#

#\_lencomp

#\_X.9999 X0 X0.1 X0.2 X0.3 X0.4 X0.5 X0.6 X0.7 X0.8 X0.9 X0.10

-9999 0 0 0 0 0 0 0 0 0 0 0 #\_terminator

7 #\_N\_agebins

#

#\_agebin\_vector

0 1 2 3 4 5 6 #\_agebin\_vector

#

#\_ageing\_error

1 #\_N\_ageerror\_definitions

#\_age0 age1 age2 age3 age4 age5 age6

0.5 1.5 2.5 3.5 4.5 5.5 6.5 #\_1

0.1 0.2 0.3 0.3 0.3 0.3 0.4 #\_2

#

#\_age\_info

#\_mintailcomp addtocomp combine\_M\_F CompressBins CompError ParmSelect minsamplesize

0 1e-07 0 0 0 0 1 #\_purse\_seine

0 1e-07 0 0 0 0 1 #\_Acoustic\_survey

0 1e-07 0 0 0 0 1 #\_DEPM\_survey

0 1e-07 0 0 0 0 1 #\_Rec\_survey

1 #\_Lbin\_method: 1=poplenbins; 2=datalenbins; 3=lengths

#\_combine males into females at or below this bin number

#\_Yr Seas FltSvy Gender Part Ageerr Lbin\_lo Lbin\_hi Nsamp a0 a1 a2 a3 a4 a5 a6

1978 7 1 0 0 1 -1 -1 50 869437 2296650 946698 295360 136661 41744 16468 #\_1

1979 7 1 0 0 1 -1 -1 50 674489 1535560 956132 431466 189107 93185 36038 #\_2

1980 7 1 0 0 1 -1 -1 50 856671 2037400 1561970 378785 156922 47302 30006 #\_3

1981 7 1 0 0 1 -1 -1 50 1025960 1934840 1733720 679001 195304 104545 76466 #\_4

1982 7 1 0 0 1 -1 -1 50 62000 795000 1869000 709000 353000 131000 129000 #\_5

1983 7 1 0 0 1 -1 -1 50 1070000 577000 857000 803000 324000 141000 139000 #\_6

1984 7 1 0 0 1 -1 -1 50 118000 3312000 487000 502000 301000 179000 117000 #\_7

1985 7 1 0 0 1 -1 -1 50 268000 564000 2371000 469000 294000 201000 103000 #\_8

1986 7 1 0 0 1 -1 -1 50 304000 755000 1027000 919000 333000 196000 167000 #\_9

1987 7 1 0 0 1 -1 -1 50 1437000 543000 667000 569000 535000 154000 171000 #\_10

1988 7 1 0 0 1 -1 -1 50 521000 990000 535000 439000 304000 292000 189000 #\_11

1989 7 1 0 0 1 -1 -1 50 248000 566000 909000 389000 221000 200000 245000 #\_12

1990 7 1 0 0 1 -1 -1 50 258000 602000 517000 707000 295000 151000 248000 #\_13

1991 7 1 0 0 1 -1 -1 75 1580580 477368 436081 406886 265762 74726 105186 #\_14

1992 7 1 0 0 1 -1 -1 75 498265 1001860 451367 340313 186234 110932 80579 #\_15

1993 7 1 0 0 1 -1 -1 75 87808 566221 1081820 521458 257209 113871 120282 #\_16

1994 7 1 0 0 1 -1 -1 75 120797 60194 542163 1094440 272466 112635 72091 #\_17

1995 7 1 0 0 1 -1 -1 75 30512 189147 280715 829707 472880 70208 64485 #\_18

1996 7 1 0 0 1 -1 -1 75 277053 101267 347690 514741 652711 197235 46607 #\_19

1997 7 1 0 0 1 -1 -1 75 208570 548594 453324 391118 337282 225170 70268 #\_20

1998 7 1 0 0 1 -1 -1 75 449115 366176 501585 352485 233672 178735 105884 #\_21

1999 7 1 0 0 1 -1 -1 75 246016 475225 361509 339691 177170 105518 72541 #\_22

2000 7 1 0 0 1 -1 -1 75 489836 354822 313972 255523 194156 97693 64373 #\_23

2001 7 1 0 0 1 -1 -1 75 219973 1172300 256133 195897 126389 75145 49547 #\_24

2002 7 1 0 0 1 -1 -1 75 106882 587354 753897 181381 112166 55650 40219 #\_25

2003 7 1 0 0 1 -1 -1 75 198412 318695 446285 518289 114035 61276 51172 #\_26

2004 7 1 0 0 1 -1 -1 75 589910 180522 263521 386715 377848 78396 55312 #\_27

2005 7 1 0 0 1 -1 -1 75 169229 1005530 266213 206657 191013 116628 46087 #\_28

2006 7 1 0 0 1 -1 -1 75 18347 250200 777315 128695 108244 121043 81149 #\_29

2007 7 1 0 0 1 -1 -1 75 199364 82084 313453 535706 80348 82713 120821 #\_30

2008 7 1 0 0 1 -1 -1 75 298405 219205 182636 370253 411611 65397 108832 #\_31

2009 7 1 0 0 1 -1 -1 75 378304 353839 195618 125324 251973 197185 83887 #\_32

2010 7 1 0 0 1 -1 -1 75 278311 516544 263334 136037 82831 129434 182722 #\_33

2011 7 1 0 0 1 -1 -1 75 341535 452259 383353 122136 87976 40949 110734 #\_34

2012 7 1 0 0 1 -1 -1 75 220164 193884 168105 122976 94143 48700 52645 #\_35

2013 7 1 0 0 1 -1 -1 75 280544 232934 155842 87924 48492 26591 27635 #\_36

2014 7 1 0 0 1 -1 -1 75 63949 189093 109802 54550 35237 19462 21688 #\_37

2015 7 1 0 0 1 -1 -1 75 68371 98936 84313 47069 20960 13656 11242 #\_38

2016 7 1 0 0 1 -1 -1 75 172202 215051 58288 40726 15422 9815 8424 #\_39

2017 7 1 0 0 1 -1 -1 75 35329 198627 126003 39727 15971 8393 10853 #\_40

2018 7 1 0 0 1 -1 -1 75 37222 49140 88410 33715 19257 9003 9140 #\_41

2019 7 1 0 0 1 -1 -1 75 53515 80914 43305 48181 15737 3538 4684 #\_42

2020 7 -1 0 0 1 -1 -1 75 53515 80914 43305 48181 15737 3538 4684 #\_43

1996 4 2 0 0 1 -1 -1 25 0 1622590 2108990 2782960 2817050 794531 44913 #\_44

1997 4 2 0 0 1 -1 -1 25 0 4373690 5388160 1714980 1360230 1461370 303499 #\_45

1998 4 2 0 0 1 -1 -1 25 0 2152220 4140570 2222520 1488900 1230050 979892 #\_46

1999 4 2 0 0 1 -1 -1 25 0 5789140 2617800 1552190 934033 640656 625539 #\_47

2000 4 2 0 0 1 -1 -1 25 0 4942930 2366860 1575400 1126350 726783 751531 #\_48

2001 4 2 0 0 1 -1 -1 25 0 13835300 1037020 702016 476215 370599 257994 #\_49

2002 4 2 0 0 1 -1 -1 25 0 13039100 6979280 1190300 1127990 566829 437827 #\_51

2003 4 2 0 0 1 -1 -1 25 0 5918330 4525170 3578810 1030660 573086 326893 #\_52

2005 4 2 0 0 1 -1 -1 25 0 22769500 1333700 689413 759794 649425 368658 #\_53

2006 4 2 0 0 1 -1 -1 25 0 7454560 8309210 577248 451829 578912 597002 #\_54

2007 4 2 0 0 1 -1 -1 25 0 1615940 3120910 3993440 638458 284628 701618 #\_55

2008 4 2 0 0 1 -1 -1 25 0 1542380 1081030 985435 1972360 216892 499897 #\_56

2009 4 2 0 0 1 -1 -1 25 0 5550230 667139 418749 691478 772710 496546 #\_57

2010 4 2 0 0 1 -1 -1 25 0 4666780 698477 536869 187723 268695 365542 #\_58

2011 4 2 0 0 1 -1 -1 25 0 838225 1249230 202249 140467 89758 328420 #\_59

2013 4 2 0 0 1 -1 -1 25 0 1824240 207875 192844 70141 123907 154603 #\_60

2014 4 2 0 0 1 -1 -1 25 0 2001450 427454 148818 120774 48246 114350 #\_61

2015 4 2 0 0 1 -1 -1 25 0 1644990 186212 155652 81948 85919 86940 #\_62

2016 4 2 0 0 1 -1 -1 25 0 2376740 627658 473115 263478 300328 308035 #\_63

2017 4 2 0 0 1 -1 -1 25 0 990618 891756 192469 109240 99938 108923 #\_64

2018 4 2 0 0 1 -1 -1 25 0 659852 1581030 647031 172372 129172 158533 #\_65

2019 4 2 0 0 1 -1 -1 25 0 2247703 467998 1230445 347060 144810 189178 #\_66

2020 4 2 0 0 1 -1 -1 25 0 13883572 1922964 244616 421145 78631 29615 #\_67

-9999 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 #\_terminator

#

#\_MeanSize\_at\_Age\_obs

0 #\_use\_MeanSize\_at\_Age\_obs

0 #\_N\_environ\_variables

0 #\_N\_sizefreq\_methods

0 #\_do\_tags

0 #\_morphcomp\_data

0 #\_use\_selectivity\_priors

#

999