**#**

**# March 2020 re-running BET 1975-1999 for SAC 2020**

**#**

#

# NOTE: Not programming or checking stratification because using the BET movement model stratification (10S/10N) which is already coded. Also, not creating base files, as that was done in runs for YFT SAC 2020. For programming/checking of stratification/etc, see previous notes files and YFT SAC 2020 notes file.

#

# --------------------------------

# BET with ALL set type strata

# Set stratification to BET movement model (10S/10N)

load("C:\\Users\\clennert\\Documents\\R\\poststratification\\CL programs\_stock assessment\\single spp programs\_PS\_1975-1999\\single spp PS\_R functions.RData")

fix(create.strat.flg.f)

fix(create.fishery.flg.f)

save.image("C:\\Users\\clennert\\Documents\\R\\poststratification\\CL programs\_stock assessment\\single spp programs\_PS\_1975-1999\\single spp PS\_R functions.RData")

#

# In new workspace:

attach("/Users/clennert/Documents/R/poststratification/CL programs\_stock assessment/single spp programs\_PS\_1975-1999/single spp PS\_R functions.RData",pos=2)

attach("/Users/clennert/Documents/R/poststratification/CL programs\_stock assessment/single spp programs\_PS\_1975-1999/current\_estimates/base files\_1975-1999\_for SAC 2020.RData",pos=3)

cae.stratflg.19751999<-create.strat.flg.f(cae.19751999$latc5,cae.19751999$lonc5,is.lwrght=F,cae.19751999$month,cae.19751999$setype,cae.19751999$class)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1975,2,well.estimates.1975)

fishery.estimates.1975<-call.fishery.estimates.f(stratum.estimates.1975.withsamps,totunlds.bystrat.1975,1975)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1976,2,well.estimates.1976)

fishery.estimates.1976<-call.fishery.estimates.f(stratum.estimates.1976.withsamps,totunlds.bystrat.1976,1976)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1977,2,well.estimates.1977)

fishery.estimates.1977<-call.fishery.estimates.f(stratum.estimates.1977.withsamps,totunlds.bystrat.1977,1977)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1978,2,well.estimates.1978)

fishery.estimates.1978<-call.fishery.estimates.f(stratum.estimates.1978.withsamps,totunlds.bystrat.1978,1978)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1979,2,well.estimates.1979)

fishery.estimates.1979<-call.fishery.estimates.f(stratum.estimates.1979.withsamps,totunlds.bystrat.1979,1979)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1980,2,well.estimates.1980)

fishery.estimates.1980<-call.fishery.estimates.f(stratum.estimates.1980.withsamps,totunlds.bystrat.1980,1980)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1981,2,well.estimates.1981)

fishery.estimates.1981<-call.fishery.estimates.f(stratum.estimates.1981.withsamps,totunlds.bystrat.1981,1981)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1982,2,well.estimates.1982)

fishery.estimates.1982<-call.fishery.estimates.f(stratum.estimates.1982.withsamps,totunlds.bystrat.1982,1982)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1983,2,well.estimates.1983)

fishery.estimates.1983<-call.fishery.estimates.f(stratum.estimates.1983.withsamps,totunlds.bystrat.1983,1983)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1984,2,well.estimates.1984)

fishery.estimates.1984<-call.fishery.estimates.f(stratum.estimates.1984.withsamps,totunlds.bystrat.1984,1984)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1985,2,well.estimates.1985)

fishery.estimates.1985<-call.fishery.estimates.f(stratum.estimates.1985.withsamps,totunlds.bystrat.1985,1985)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1986,2,well.estimates.1986)

fishery.estimates.1986<-call.fishery.estimates.f(stratum.estimates.1986.withsamps,totunlds.bystrat.1986,1986)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1987,2,well.estimates.1987)

fishery.estimates.1987<-call.fishery.estimates.f(stratum.estimates.1987.withsamps,totunlds.bystrat.1987,1987)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1988,1,well.estimates.1988)

fishery.estimates.1988<-call.fishery.estimates.f(stratum.estimates.1988.withsamps,totunlds.bystrat.1988,1988)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1989,2,well.estimates.1989)

fishery.estimates.1989<-call.fishery.estimates.f(stratum.estimates.1989.withsamps,totunlds.bystrat.1989,1989)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1990,2,well.estimates.1990)

fishery.estimates.1990<-call.fishery.estimates.f(stratum.estimates.1990.withsamps,totunlds.bystrat.1990,1990)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1991,2,well.estimates.1991)

fishery.estimates.1991<-call.fishery.estimates.f(stratum.estimates.1991.withsamps,totunlds.bystrat.1991,1991)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1992,2,well.estimates.1992)

fishery.estimates.1992<-call.fishery.estimates.f(stratum.estimates.1992.withsamps,totunlds.bystrat.1992,1992)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1993,2,well.estimates.1993)

fishery.estimates.1993<-call.fishery.estimates.f(stratum.estimates.1993.withsamps,totunlds.bystrat.1993,1993)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1994,2,well.estimates.1994)

fishery.estimates.1994<-call.fishery.estimates.f(stratum.estimates.1994.withsamps,totunlds.bystrat.1994,1994)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1995,2,well.estimates.1995)

fishery.estimates.1995<-call.fishery.estimates.f(stratum.estimates.1995.withsamps,totunlds.bystrat.1995,1995)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1996,2,well.estimates.1996)

fishery.estimates.1996<-call.fishery.estimates.f(stratum.estimates.1996.withsamps,totunlds.bystrat.1996,1996)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1997,2,well.estimates.1997)

fishery.estimates.1997<-call.fishery.estimates.f(stratum.estimates.1997.withsamps,totunlds.bystrat.1997,1997)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1998,2,well.estimates.1998)

fishery.estimates.1998<-call.fishery.estimates.f(stratum.estimates.1998.withsamps,totunlds.bystrat.1998,1998)

get.catch.estimates.V2.f(cae.19751999,cae.stratflg.19751999,corrected.unlds,lfgrpd.19751999,lfmm.19751999,1999,2,well.estimates.1999)

fishery.estimates.1999<-call.fishery.estimates.f(stratum.estimates.1999.withsamps,totunlds.bystrat.1999,1999)

save.image("C:\\Users\\clennert\\Documents\\R\\poststratification\\CL programs\_stock assessment\\single spp programs\_PS\_1975-1999\\current\_estimates\\full files\_BET\_FLT\_1975-1999\_for SAC 2020.RData")

fishery.estimates.bet.1975<-fishery.estimates.1975$bet

fishery.estimates.bet.1976<-fishery.estimates.1976$bet

fishery.estimates.bet.1977<-fishery.estimates.1977$bet

fishery.estimates.bet.1978<-fishery.estimates.1978$bet

fishery.estimates.bet.1979<-fishery.estimates.1979$bet

fishery.estimates.bet.1980<-fishery.estimates.1980$bet

fishery.estimates.bet.1981<-fishery.estimates.1981$bet

fishery.estimates.bet.1982<-fishery.estimates.1982$bet

fishery.estimates.bet.1983<-fishery.estimates.1983$bet

fishery.estimates.bet.1984<-fishery.estimates.1984$bet

fishery.estimates.bet.1985<-fishery.estimates.1985$bet

fishery.estimates.bet.1986<-fishery.estimates.1986$bet

fishery.estimates.bet.1987<-fishery.estimates.1987$bet

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fishery.estimates.bet.1989<-fishery.estimates.1989$bet

fishery.estimates.bet.1990<-fishery.estimates.1990$bet

fishery.estimates.bet.1991<-fishery.estimates.1991$bet

fishery.estimates.bet.1992<-fishery.estimates.1992$bet

fishery.estimates.bet.1993<-fishery.estimates.1993$bet

fishery.estimates.bet.1994<-fishery.estimates.1994$bet

fishery.estimates.bet.1995<-fishery.estimates.1995$bet

fishery.estimates.bet.1996<-fishery.estimates.1996$bet

fishery.estimates.bet.1997<-fishery.estimates.1997$bet

fishery.estimates.bet.1998<-fishery.estimates.1998$bet

fishery.estimates.bet.1999<-fishery.estimates.1999$bet

save(list=objects(pat="fishery.estimates.bet"),file="/Users/clennert/Documents/R/poststratification/CL programs\_stock assessment/single spp programs\_PS\_1975-1999/current\_estimates/BET\_All set type strata\_fishery estimates only\_1975-1999\_for SAC 2020.RData")

# ------------------------------------------------------------------

# creating formatted output for BET only (in new workspace)

attach("C:[\\Users\\clennert\\Documents\\R\\poststratification\\CL](file:///\\Users\\clennert\\Documents\\R\\poststratification\\CL) programs\_stock assessment[\\single](file:///\\single) spp programs\_PS\_1975-1999[\\single](file:///\\single) spp PS\_R functions.RData",pos=2)

attach("/Users/clennert/Documents/R/poststratification/CL programs\_stock assessment/single spp programs\_PS\_1975-1999/current\_estimates/BET\_All set type strata\_fishery estimates only\_1975-1999\_for SAC 2020.RData",pos=3)

bet.DPcatch.19751999<-format.catch.output.f(1975,1999,"DP","bet",c("A1","A2","A3","A4","A5"))

bet.DPcomps.19751999<-format.sizecomps.output.f(1975,1999,"DP","bet")

bet.UNcatch.19751999<-format.catch.output.f(1975,1999,"UN","bet",c("A1","A2","A3","A4","A5"))

bet.UNcomps.19751999<-format.sizecomps.output.f(1975,1999,"UN","bet")

bet.FOcatch.19751999<-format.catch.output.f(1975,1999,"FO","bet",c("A1","A2","A3","A4","A5"))

bet.FOcomps.19751999<-format.sizecomps.output.f(1975,1999,"FO","bet")

save.image("/Users/clennert/Documents/R/poststratification/CL programs\_stock assessment/single spp programs\_PS\_1975-1999/current\_estimates/BET\_formatted\_1975-1999\_for SAC 2020.RData")