main	level1	level2	level3	level4	level5	explanation
do_MSE						
	makeequilzone					
		readctrlfile				
		readsaudatfile				
		setupzone				
			makezoneC			
			makezone			
			if (doproduct) modzoneC			
		testequil				
		resetexB0				
		setuphtml				
	biology_plots					
	plotproductivity					
	numbersatsize					
	if (any(initdepl < 1.0) depleteSAU					
	dohistoricC					
		for year in 2:nyrs				
			calcpopC			
			oneyearsauC			
				oneyearcat		
				getvect		
				oneyearrec		
	addtable(propertyDD)					
	addtable(popdefs)					
	plotconditioning					

```
saurecdevs
for (plotsau in 1:nsau)
            preparesizecomp
            plotsizecomp
prepareprojection
            modprojC
            modzoneCSel
            addrecvar
doprojections
            for iter in 1:reps
            for year in startyr:endyr
                        getdata    (example using the tasdata function from TasHS1_Tas.R)
                                    tasCPUE
                                    tasFIS
                                    tasNaS
                        hcrfun   (again using mcdahcr from Tasmania as an example)
                                    for (sau in 1:nsau)
                                                getgrad1
                                                getscore
                                                getgrad4
                                                getscore
                                                targscore
                        calcpopC
                        oneyearsauC
                                    oneyearcat
                                    getvect
                                    oneyearrec
```

poptosauCE
getvar
getvar
sauplots
            zonetosau
            dosuaplot(cpue)
            dosauplot(catch)
            dosauplot(acatch)
            dosauplot(matureB)
            dosauplot(exploitB)
            dosauplot(recruit)
            dosauplot(harvestR)
dianosticproj
poptozone
plotZone
fishery_plots
historicalplots
getprojyrC(period=5)
getprojyrC(period=10)
plothsstats