```
yrs=( 9495 9596 9697 9798 9899 9900 0001 0102 0203 0304 0405 0506 0607 0708 0809 0910 1011
1112 1213 )

if [ "$1" = "" ]; then
   echo "Enter start year"
   read startyr
else
   startyr=$1
fi
if [ "$2" = "" ]; then
   echo "Enter start chunk"
   read startchunk
else
   startchunk=$2
fi
if [ "$3" = "" ]; then
   echo "Enter end year"
   read endyr
else
   endyr=$3
fi
if [ "$4" = "" ]; then
   echo "Enter end chunk"
   read endchunk
else
   endchunk=$4
fi
if [ "$5" = "" ]; then
   echo "Enter restart (0 for runs starting in 0809, 1 for runs starting in 9495)"
   read restart
else
   restart=$5
fi
if [ $restart -eq 1 ]; then
   if [ "$6" = "" ]; then
         echo "Enter prevyr"
         read prevyr
   else
         prevyr=$6
   fi
   if [ "$7" = "" ]; then
         echo "Enter prev chunk # in ddd format"
         read prevchunkmo
   else
         prevchunkmo=$7
   fi
fi
chunk=$startchunk



kk=0
nn=999
nn2=999
doruns=1
while [ $kk -lt ${#yrs[@]} ]; do
```

```
  if [ ${yrs[${kk}]} -eq ${startyr} ]; then
    nn=$kk
  fi
  if [ ${yrs[${kk}]} -eq ${endyr} ]; then
    nn2=$kk
  fi
  kk=`expr $kk + 1`
done;
if [ $nn -eq 999 ]; then
   echo "${startyr} is not a valid start year. Please fix and resubmit."
   doruns=0
fi
if [ $nn2 -eq 999 ]; then
   echo "${endyr} is not a valid end year. Please fix and resubmit."
   doruns=0
fi
echo $nn $nn2 $doruns



mkdir OUTPUT

while [ $nn -le ${nn2} -a ${doruns} -eq 1 ]; do
    cp -f ../timestep.inp.${yrs[${nn}]} timestep.inp
    lines=`wc timestep.inp | awk '{print $1}'`
    lines=`expr ${lines} - 1`
    if [ $nn -eq ${nn2} ]; then
            lastch=$endchunk
    else
            lastch=$lines
    fi
    year=${yrs[${nn}]}
    dorun=1

    while [ ${dorun} -eq 1 ]; do
            tail -${lines} timestep.inp > tmp1.out
            awk '{print $2}' tmp1.out > tmp2.out
            chunkmo=`sed -n ${chunk},${chunk}p tmp2.out`
            if [ $chunk -eq 1 ]; then
               ndays=${chunkmo}
            else
               ndays=`expr ${chunkmo} - ${prevchunkmo}`
            fi

            prevmmmo=`echo ${prevchunkmo} | awk '{printf "%04i",$0}'`
            mmmo=`echo ${chunkmo} | awk '{printf "%04i",$0}'`
            echo Running ${year}_${mmmo}

            if [ $restart -eq 1 ]; then
               lzcat ../RESTART/restart.${prevyr}_${prevmmmo}.lzma > restart
               sed s"/SED_NUMDAYS/${ndays}/" editscour_restart_rev.f > tmp.f
               pgf95 -byteswapio -Mextend tmp.f; ./a.out
            else
               if [ -s scourcells_rev.out ]; then
                       rm scourcells_rev.out
               fi
```

```
            touch scourcells_rev.out
            restart=1
        fi
        mv -f scourcells_rev.out OUTPUT/scourcells_rev.out.${year}_${mmmo}
        lzma -1 -f OUTPUT/*.${year}_${mmmo}

        if [ $chunk -eq $lastch ]; then
            dorun=0
        fi

        prevchunkmo=$chunkmo
        chunk=`expr $chunk + 1`
        prevyr=${yrs[$nn]}
    done;

    nn=`expr $nn + 1`
    chunk=1
done;   # done yrs
```