Each .pot file contains data of potential, pedpsi and G. 2000p225.pot is simulation result with Hardy model of auroral conductance. 2000j225.pot is result from the extended Hardy model. The following is the part of the code to write these files.

```
      if (t.eq.tstart) then
         write(13,*) rc,'           ! radius of ionosphere in Re'
         write(13,*) ir,'           ! no. of latitude (deg) '
         write(13,'(10f8.3)') (xlati1(i),i=1,ir)
         write(13,*) ip,'           ! no. of local time (hour)'
         write(13,'(10f8.2)') (xmlt(j),j=1,ip)
         write(13,*) ik,'           ! no. of longitudinal invariant'
      endif
      write(13,*) hour,'            ! time in hour'
      write(13,*)ddp*2,i_kp,' ! X-polar potential drop, Kp in conductance model'
      write(13,'(8f10.2)') ((ro(i,j),i=1,ir),j=1,ip)
      write(13,'(8f10.2)') ((xmlto(i,j),i=1,ir),j=1,ip)
      write(13,'(1p,7e11.3)') ((bo(i,j),i=1,ir),j=1,ip)
      write(13,'(8f10.5)') (((y(i,j,m),i=1,ir),j=1,ip),m=1,ik) ! sin(αo)
      write(13,'(8f10.1)') ((potential(i,j),i=1,ir),j=1,ip)    ! in Volt
      write(13,'(8f10.2)') ((pedpsi(i,j),i=1,ir),j=1,ip)
      write(13,'(1p,7e11.3)') ((G(i,j),i=1,ir),j=1,ip)
```