VERSÃO MODELO SMAP DIÁRIO ONS – ALGORITMO - 4 RESERVATÓRIOS

```
SUB ModeloSmapDiario
INPUT ndias, Ad
INPUT Str, K2t,Crec, Ai, Capc, Kkt
INPUT Ep(i), Pr(i), Pcof
Rsolo(0)=Tuin/100*Str
Rsub(0)=Ebin/(1-.5^(1/Kkt))/Ad*86.4
Rsup(0)=Supin/(1-.5^(1/K2t))/Ad*86.4
Rsup2(0)=0.
   FOR I=1 TO ndias
       P(i)= Pr(i)*Pcof
       Tu(i)=Rsolo(i-1)/Str
       IF P(i) > Ai THEN
            Es(i)=(P(i)-Ai)^2/(P(i)-Ai+Str-Rsolo(i-1))
       ELSE
            Es(i)=0
       END IF
         IF (P(i)-Es(i))>Ep(i)*kep THEN
           Er(i)=Ep(i)
       ELSE
           Er(i)=(P(i)-Es(i))+(Ep(i)-(P(i)-Es(i)))*Tu(i)
       END IF
       IF Rsolo(i-1) > (Capc/100*Str) THEN
            Rec(i)=Crec/100*Tu(i)*(Rsolo(i-1)-(Capc/100*Str))
       ELSE
            Rec(i)=0
       END IF
       Rsolo(i)=Rsolo(i-1) + P(i)-Es(i)-Er(i)-Rec(i)
       IF Rsolo(i) > Str THEN
            Es(i)=Es(i)+ Rsolo(i)-Str
            Rsolo(i)= Str
       END IF
       Ed(i)= Rsup(i-1)* (1- .5^(1/K2t))
       Rsup(i)= Rsup(i-1)  + Es(i) - Ed(i)
       IF Rsup(i)> H THEN
          Emarg (i)= (Rsup(i)-H)* (1-.5^(1/K1t))
          Rsup(i)=H
       ELSE
          Emarg(i)=0
       END IF
       Ed2(i)=Rsup2(i-1)*(1-.5^(1/K3t))
       Rsup2(i)=Rsup2(i-1) + Emarg(i)
       Eb(i)= Rsub(i-1)*(1-.5^(1/Kkt))
       Rsub(i)= Rsub (i-1) + Rec(i) – Eb(i)
       Q(i)= (Ed(i)+Eb(i)+Ed2(i))*Ad/86.4
   NEXT i
```