```
BBTD 2-40
pres
       FIGURE 6-37: TECHNOLOGICAL INCREASE IN TRANSMISSION DELAY
        AHLMT=1/6/11/16/21
       FIGURE 6-38: ASSIMILATION TECHNOLOGY
       LMT2T=1/1/.99/.98/.95/.92/.88/.82/.77/.70/.60
LFDR2T=0/.05/.15/.25
       FIGURE 6-39: DAMAGE TECHNOLOGIES
RIDI
       PPGF21=.2
BIN
       FIGURE 6-40: POLLUTION CONTROL TECHY, OCY
       FIGURE 6-41: ADAPTIVE TECHNOLOGIES
       FIGURE 6-43: ADAPTIVE TECHNOLOGIES, PPTD=2 YEARS
HOTE
NOTE EQUILIBRIUM RUNS
       PCRUMT=17/30/52/78/138/280/280/280/280/280/280
        AIPHT=6.6/11/20/34/51/97/97/97/97/97/97
      ALT=9/10/11/13/16/20/20/20/20/20/20/20
FIGURE 6-44: EQUILIBRIUM IN 2000
PCRUMT=17/30/52/78/138/280/480/480/480/480/480
       POPT=16/19/22/31/42/53/67/67/67/67/67
AIPHT=6.6/11/20/34/51/97/168/168/168/168/168
ALT=9/10/11/13/16/20/24/24/24/24/24
       PIGURE 6-45: EQUILIBRIUM IN 2020
PCRUMT=17/30/52/78/138/280/480/480/480/480/480
       POPT=16/19/22/31/42/53/67/67/67/67/67
       AIPHT=6.6/11/20/14/57/97/168/168/168/168/168
ALT=9/10/11/13/16/20/24/24/24/24/24
       SWAT-1
RUN FIGURE 6-46: ADAPTIVE CONTROL AND EQUILIBRIUM IN 2020
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APPENDIX B: PARAMETER CHANGES TO RUN DDT AND MERCURY MODELS

An illustration of the transmission delays associated with diffusion of DDT through the global environment-the relations between the rate of DDT application over cropland and the level of DDT in marine fish tissue.

To the DDT model reported in Randers (1973), in edit mode: A TDDT.K=S.K+A.K+R.K+O.K+F.K add change equation 3 A AR.K=TABHL(ART,TIME.K,1948, 1952,2)*1E4 change equation 3.1 T ART=0/100/0

in rerun mode: C LENGTH=2000 PLOT AR=A,S=S(0,1E6)/F=F(0,400)/TDDT=T

An illustration of the transmission delay associated with the diffu-Figure 6-16 sion of mercury through the global environment—the relation between the rate of mercury release to fresh water and the level of mercury in marine fish tissue.

To the mercury model listed in Anderson and Anderson (1973), in edit mode: add A TM.K=AM.K+AO.K+MM.K+MO.K+SM.K+SO.K+OM.K+OO.K +FM.K+FO.K

change equation 19 A CMOX.K=TABHL(CMOXT,CMM.KC,0,100,50) change equation 19.1 T CMOXT=0/2.5/5 change equation 20 R BC.KL=MAX(0,(CMOX.K-CMO.K)/DT*(MUD/IE9) in rerun mode-CAMB=0 COOB=0C AOB =0 C FMB =0 C MMB=0 C FOB =0 C MOB = 0 C PIT = 4000 C SMB =0 C EN =0 C SOB =0 T P1T =0/1E2/0/0/0/0/0/0/0/0/0/0/0/0/0 C OMB = 0 PLOT P=P.SO=S.MO=M(0.1Ef)/FO=F(0.1)/TM=T

APPENDIX C: SIMPLE TWO POLLUTION MODEL AND RUN CHANGES

Secular shifts in the composition of total pollution in a simple two-pollution model when the half-lives are unequal. The basic model is:

```
SIMPLE MODEL OF POLLUTION ACCUMULATION AND ASSIMILATION
          MO93.K=MO93.J+(DT)(MO93PR.JA-MO93DR.JA)
          MO9 (eMO9 3T
          MO931=75
          SR90.K=SR90.J+(DY)(SR90PR.JA-SR90DR.JA)
          3R90=3R90I
          SR901=25
          MO93DR.KL=MO93.K/(HLMO93*1.4)
          HLM09 3=2
          spanna KLaskan K/(HLSka)*1.4)
          TP.K=SR90.K+H093.K
          FPSR90.K=SR90.K/TP.K
          MO9 3PR.KL=FPRMO*TPPR.K
          FPRMO= . 75
          SPROPE KLEFPESE*TPPE.K
8.1 C
          TPPR.K=PPRI*EXP(GC*TIME.K)
          GC=, 05
    NOTE CONTROL CARDS
          DT=.25/LENGTH=25/PLTPER=1.25/PRTPER=0
    SPEC
          MO93=3,SR90=0(0,75)/MO93PR=M,SR90PR=S(0,50)/
PDSR90=F(0,1)
         FIGURE 6-19A: ZERO POLLUTION INPUTS
          M093I=3
          spental
          MO93=3,SR90=0(0,50)/MO93PR=M,SR90PR=S(0,10)/
          FIGURE 6-19B: 5%/YR GROWTH IN POLLUTION INPUTS
```

To obtain Figure 6-19A, in rerun mode:

C GC=0

To obtain Figure 6-19B, in rerun mode:

C MO93I=0 C SR90I=0