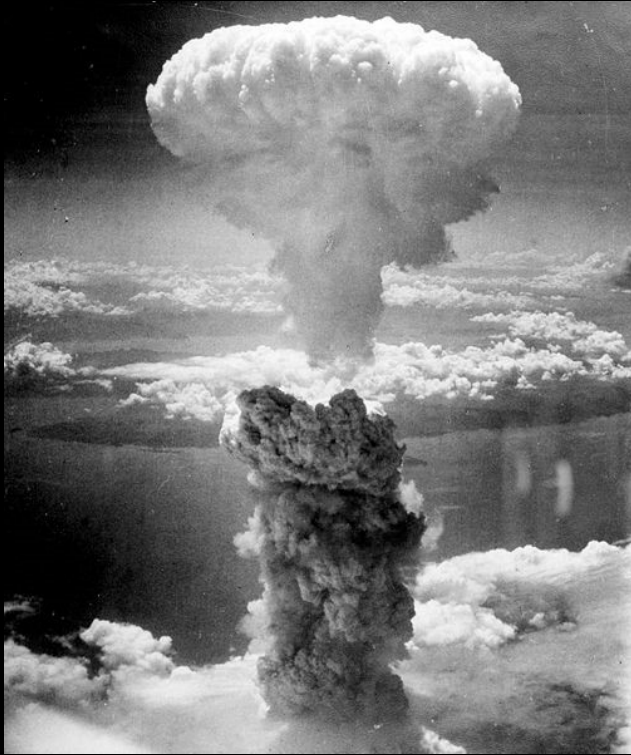


The Armageddon Equations

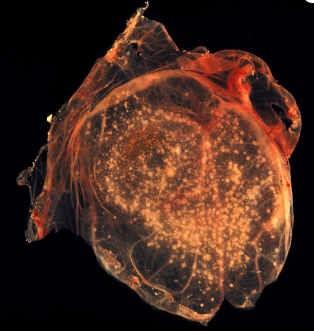
Juliette Zerick
PHY 256
Winter 2009



2



4



6



5



3

1. The AKMS and AK-47; the latter is one of the most popular light weapons worldwide. Image from: Wikimedia Commons, http://en.wikipedia.org/wiki/File:AKMS_and_AK-47_DD-ST-85-01270.jpg

2. Atomic bomb over Nagasaki. Image from: Wikimedia Commons, <http://en.wikipedia.org/wiki/File:Nagasakibomb.jpg>

3, 4, 5. Chemical warfare in World War I. Images from: "Vintage Photographs - Poison Gas and Flamethrowers," FirstWorldWar.com. 2006 May 27

6. Smallpox. Image from: Wikimedia Commons, http://en.wikipedia.org/wiki/File:Smallpox_CAM.png

1



1. Army vehicle hit by an IED in Iraq. Image from: Army Recognition.com, http://www.armyrecognition.com/forum_pic/italy/lveco_LMV_Italian_army_forum_ArmyRecognition_001.jpg

2. Suicide blast in Sri Lanka (likely by the Tamil Tigers). Image from: London Daily Telegraph(AP-Reuters), 2009 March 12, <http://www.telegraph.co.uk/news/picturegalleries/worldnews/4973425/Suicide-bomb-blast-in-Sri-Lanka-caught-on-camera.html>

3. Lord's Resistance Army rebels. Image from: The Guardian, 2007 October 20, <http://www.guardian.co.uk/katine/2007/oct/20/about.uganda>

4. Seizure of Mexican drug cartel weapons stash. Image from: WizBangBlue, 2009 February 21, <http://wizbangblue.com/2009/02/21/mexicos-border-drug-wars-threaten-us-security.php>



Maps from Live Weather Images (Weather Images.org)

The Armageddon Equations (v. 6)

$$G_S(n+1) = G_S(n) e^{u_{gsge} G_E(n) + u_{gsp} P(n) + u_{gsm} M(n) + u_{gst} T(n) - u_{gscs} B_S(n)}$$

$$G_E(n+1) = G_E(n) e^{u_{gegs} G_S(n) + u_{get} T(n) - u_{gem} M(n) - u_{gece} B_E(n)}$$

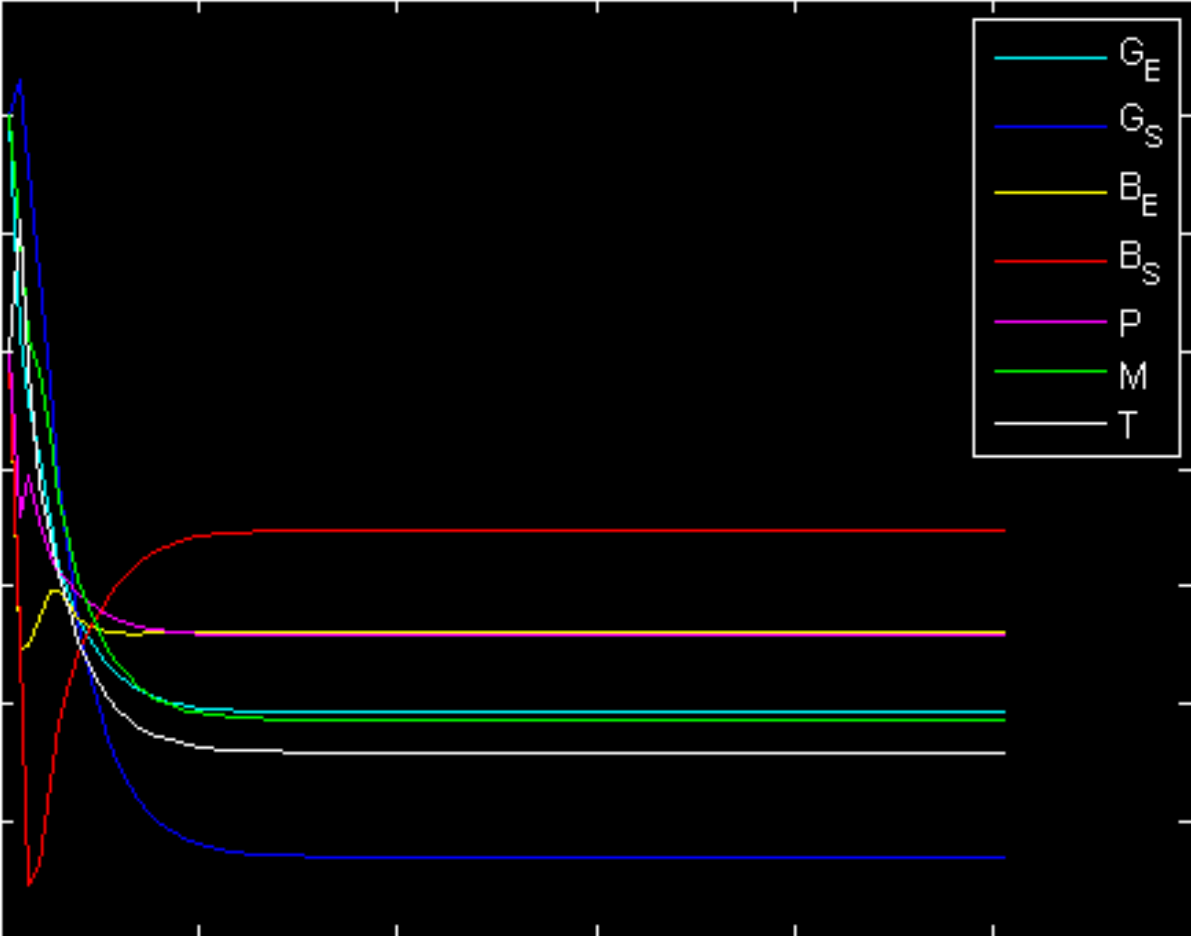
$$B_S(n+1) = B_S(n) e^{u_{bsbe} B_E(n) - u_{bst} T(n) - u_{bsp} P(n) - u_{bsm} M(n) - u_{bscs} G_S(n)}$$

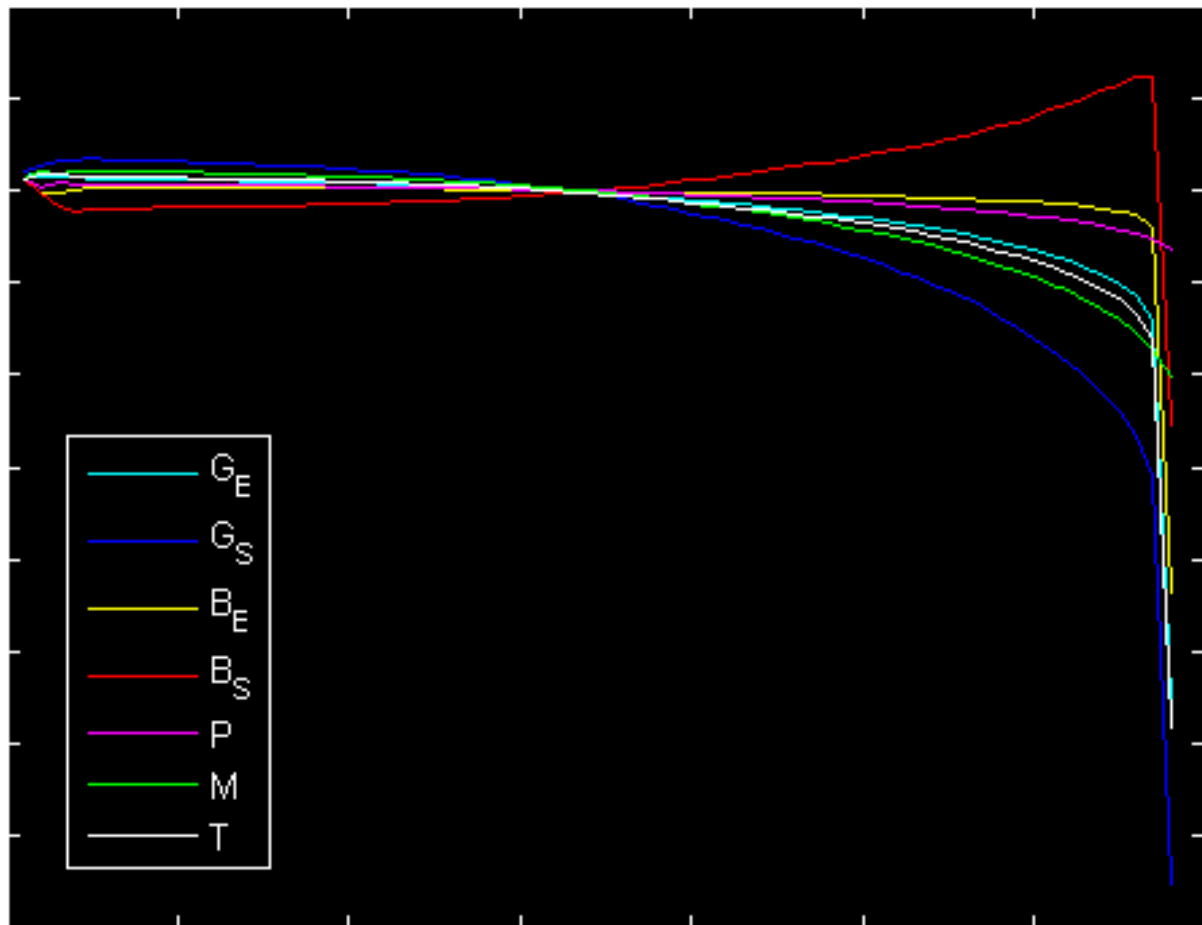
$$B_E(n+1) = B_E(n) e^{u_{bebs} B_S(n) - u_{bet} T(n) - u_{becs} G_S(n) - u_{bece} G_E(n)}$$

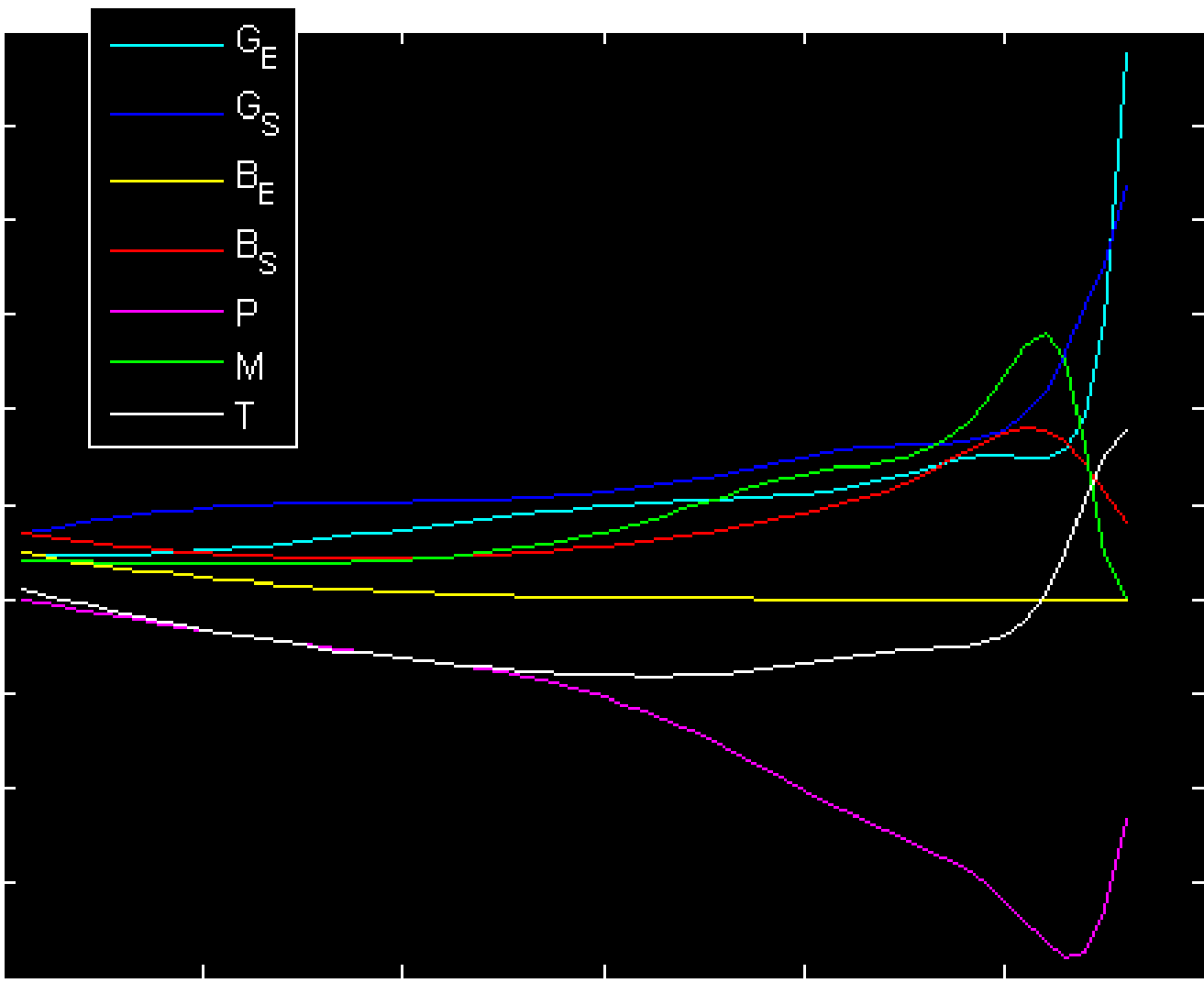
$$M(n+1) = M(n) e^{-u_{mg} G_E(n) \ln(G_S(n)) + u_{mcse} B_S(n) G_S(n) G_E(n) + u_{mp} P(n) - u_{mtgs} T(n) G_S(n) G_E(n) - u_{mb} B_S(n) B_E(n)}$$

$$P(n+1) = P(n) + u_{pt} T(n) + u_{pgs} G_S(n) + u_{pge} G_E(n) - u_{pbs} B_S(n) - u_{pbe} B_E(n) - u_{pm} M(n)$$

$$T(n+1) = T(n) + u_{tgs} G_S(n) - u_{tbs} B_S(n) + u_{tge} G_E(n) + u_{tbe} B_E(n) + u_{tp} P(n) \\ + u_{tg} G_S(n) M(n) + u_{tb} B_E(n) \ln(B_S(n)) - u_{tcs} e^{u_{csx} G_S(n) B_S(n)} - u_{tce} e^{u_{cex} G_E(n) B_E(n)}$$







The Armageddon Equations (v. 6S)

$$G_S(n+1) = G_S(n) e^{u_{gsge} G_E(n) + u_{gsp} P(n) + u_{gsm} M(n) + u_{gst} T(n) - u_{gscs} B_S(n)}$$

$$G_E(n+1) = G_E(n) e^{u_{gegs} G_S(n) + u_{get} T(n) - u_{gem} M(n) - u_{gece} B_E(n) - u_{gek} G_E(n)}$$

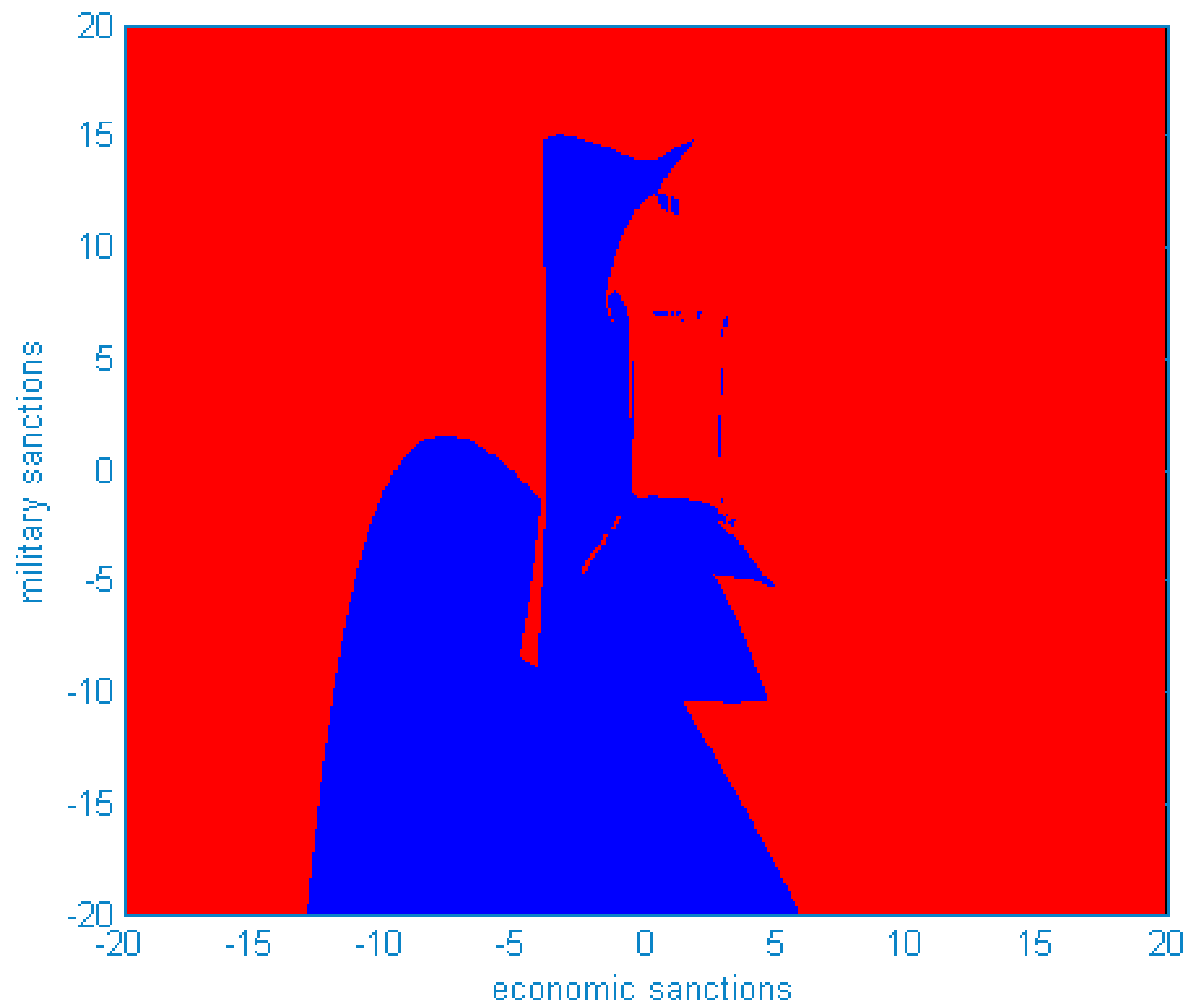
$$B_S(n+1) = B_S(n) e^{u_{bsbe} B_E(n) - u_{bst} T(n) - u_{bsp} P(n) - u_{bsm} M(n) - u_{bscs} G_S(n)}$$

$$B_E(n+1) = B_E(n) e^{u_{bebs} B_S(n) - u_{bet} T(n) - u_{becs} G_S(n) - u_{bece} G_E(n) - u_{bek} B_E(n)}$$

$$M(n+1) = M(n) e^{-u_{mg} G_E(n) \ln(G_S(n)) + u_{mcse} B_S(n) G_S(n) G_E(n) + u_{mp} P(n) - u_{mtgs} T(n) G_S(n) G_E(n) - u_{mb} B_S(n) B_E(n) - u_{mk} M(n)}$$

$$P(n+1) = P(n) + u_{pt} T(n) + u_{pgs} G_S(n) + u_{pge} G_E(n) - u_{pbs} B_S(n) - u_{pbe} B_E(n) - u_{pm} M(n)$$

$$T(n+1) = T(n) + u_{tgs} G_S(n) - u_{tbs} B_S(n) + u_{tge} G_E(n) + u_{tbe} B_E(n) + u_{tp} P(n) \\ + u_{tg} G_S(n) M(n) + u_{tb} B_E(n) \ln(B_S(n)) - u_{tcs} e^{u_{csx} G_S(n) B_S(n)} - u_{tce} e^{u_{cex} G_E(n) B_E(n)}$$



The Armageddon Equations (v. 6M)

$$G_S(n+1) = G_S(n) e^{u_{gsge} G_E(n) + u_{gsp} P(n) + u_{gsm} M(n) + u_{gst} T(n) - u_{gscs} B_S(n)}$$

$$G_E(n+1) = G_E(n) e^{u_{gegs} G_S(n) + u_{get} T(n) - u_{gem} M(n) - u_{gece} B_E(n) - u_{gek} G_E(n)}$$

$$B_S(n+1) = B_S(n) e^{u_{bsbe} B_E(n) - u_{bst} T(n) - u_{bsp} P(n) - u_{bsm} M(n) - u_{bscs} G_S(n)}$$

$$B_E(n+1) = B_E(n) e^{u_{bebs} B_S(n) - u_{bet} T(n) - u_{becs} G_S(n) - u_{bece} G_E(n) - u_{bek} B_E(n)}$$

$$M(n+1) = M(n) e^{-u_{mg} G_E(n) \ln(G_S(n)) + u_{mcse} B_S(n) G_S(n) G_E(n) + u_{mp} P(n) - u_{mtgs} T(n) G_S(n) G_E(n) - u_{mb} B_S(n) B_E(n) - u_{mk} M(n)}$$

$$P(n+1) = P(n) + u_{pt} T(n) + u_{pgs} G_S(n) + u_{pge} G_E(n) - u_{pbs} B_S(n) - u_{pbe} B_E(n) - u_{pm} M(n) - u_{pr} P$$

$$T(n+1) = T(n) + u_{tgs} G_S(n) - u_{tbs} B_S(n) + u_{tge} G_E(n) + u_{tbe} B_E(n) + u_{tp} P(n) + u_{tg} G_S(n) M(n) + u_{tb} B_E(n) \ln(B_S(n)) - u_{tcs} e^{u_{csx} G_S(n) B_S(n)} - u_{tce} e^{u_{cex} G_E(n) B_E(n)}$$

