logarithmic U_a, U_o-data $u_\lambda = (\lambda - 550) / 50$

$\log U_a = (\log D_o + \log P_o)/2$ $\log D_o = -0{,}35[u_\lambda - u_{\lambda 538}]^2$

$\log U_o = \log U_a + 0{,}023$ $\log P_o = -0{,}35[u_\lambda - u_{\lambda 563}]^2$

$\log [\ U_o, U_a, D_o, P_o\ ]$ Adaptation: λ_{UT}=550

538 550 563

Threshold S_a=0.02

DoPo–>UaUo IE210–1X

logarithmic D_a, D_o-data $u_\lambda = (\lambda - 550) / 50$

$\log D_a = (\log G_a + \log J_o)/2$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log D_o = \log D_a + 0{,}196$ $\log J_o = -0{,}35[u_\lambda - u_{\lambda 575}]^2$

$\log [\ D_o, D_a, G_o, J_o\ ]$ Adaptation: λ_{UT}=538

508 538 575

Threshold S_a=0.02

GoJo–>DaDo IE210–2X

logarithmic J_a, J_o-data $u_\lambda = (\lambda - 550) / 50$

$\log J_a = (\log G_a + \log R_o)/2$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log J_o = \log J_a + 0{,}78$ $\log R_o = -0{,}35[u_\lambda - u_{\lambda 650}]^2$

$\log [\ J_o, J_a, G_o, R_o\ ]$ Adaptation: λ_{UT}=575

508 575 650

Threshold S_a=0.02

GoRo–>JaJo IE210–3X

logarithmic W_a, W_o-data $u_\lambda = (\lambda - 550) / 50$

$\log W_a = (\log G_a + \log U_o)/2$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log W_o = \log W_a + 0{,}087$ $\log U_o = -0{,}35[u_\lambda - u_{\lambda 550}]^2$

$\log [\ W_o, W_a, G_o, U_o\ ]$ Adaptation: λ_{UT}=525

508 525 550

Threshold S_a=0.02

GoUo–>MaMo IE210–4X

logarithmic B_a, B_o-data $u_\lambda = (\lambda - 550) / 50$

$\log B_a = (\log G_a + \log T_o)/2$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log B_o = \log B_a + 0{,}087$ $\log T_o = -0{,}35[u_\lambda - u_{\lambda 450}]^2$

$\log [\ B_o, B_a, G_o, T_o\ ]$ Adaptation: λ_{UT}=475

450 475 488

Threshold S_a=0.02

ToGo–>BaBo IE210–5X

logarithmic C_a, C_o-data $u_\lambda = (\lambda - 550) / 50$

$\log C_a = (\log T_o + \log W_o)/2$ $\log T_o = -0{,}35[u_\lambda - u_{\lambda 450}]^2$

$\log C_o = \log C_a + 0{,}087$ $\log W_o = -0{,}35[u_\lambda - u_{\lambda 525}]^2$

$\log [\ C_o, C_a, T_o, W_o\ ]$ Adaptation: λ_{UT}=488

450 488 525

Threshold S_a=0.02

ToMo–>CaCo IE210–6X

logarithmic G_a, G_o-data $u_\lambda = (\lambda - 550) / 50$

$\log G_a = (\log T_o + \log U_o)/2$ $\log T_o = -0{,}35[u_\lambda - u_{\lambda 450}]^2$

$\log G_o = \log G_a + 0{,}35$ $\log U_o = -0{,}35[u_\lambda - u_{\lambda 550}]^2$

$\log [\ G_o, G_a, T_o, U_o\ ]$ Adaptation: λ_{UT}=500

450 500 550

Threshold S_a=0.02

ToUo–>GaGo IE210–7X

logarithmic W_a, W_o-data $u_\lambda = (\lambda - 550) / 50$

$\log W_a = (\log B_o + \log J_o)/2$ $\log B_o = -0{,}35[u_\lambda - u_{\lambda 475}]^2$

$\log W_o = \log W_a + 0{,}35$ $\log J_o = -0{,}35[u_\lambda - u_{\lambda 575}]^2$

$\log [\ W_o, W_a, B_o, J_o\ ]$ Adaptation: λ_{UT}=525

475 525 575

Threshold S_a=0.02

BoJo–>MaMo IE210–8X

logarithmic C_a, C_o-data $u_\lambda = (\lambda - 550) / 50$

$\log C_a = (\log B_o + \log G_o)/2$ $\log B_o = -0{,}35[u_\lambda - u_{\lambda 475}]^2$

$\log C_o = \log C_a + 0{,}021$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log [\ C_o, C_a, B_o, G_o\ ]$ Adaptation: λ_{UT}=488

475 488 508 c=1

$\log G^* = c \log(G_o / C_a) + 0{,}5$

$\log B^* = c \log(B_o / C_a) + 0{,}5$

Threshold S_a=0.02

BoGo–>Ca, G*, B* IE211–1X

logarithmic C_a, C_o-data $u_\lambda = (\lambda - 550) / 50$

$\log C_a = (\log B_o + \log G_o)/2$ $\log B_o = -0{,}35[u_\lambda - u_{\lambda 475}]^2$

$\log C_o = \log C_a + 0{,}021$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log [\ C_o, C_a, B_o, G_o\ ]$ Adaptation: λ_{UT}=488

475 488 508 c=1

$\log G^* = c \log(G_o / C_a) + 0{,}5$

$\log B^* = c \log(B_o / C_a) + 0{,}5$

Threshold S_a=0.02

BoGo–>Ca, G*, B* IE211–2X

logarithmic D_a, D_o-data $u_\lambda = (\lambda - 550) / 50$

$\log D_a = (\log G_a + \log J_o)/2$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log D_o = \log D_a + 0{,}196$ $\log J_o = -0{,}35[u_\lambda - u_{\lambda 575}]^2$

$\log [\ D_o, D_a, G_o, J_o\ ]$ Adaptation: λ_{UT}=538

508 538 575 c=1

$\log J^* = c \log(J_o / D_a) + 0{,}5$

$\log G^* = c \log(G_o / D_a) + 0{,}5$

Threshold S_a=0.02

GoJo–>Da, J*, G* IE211–3X

logarithmic D_a, D_o-data $u_\lambda = (\lambda - 550) / 50$

$\log D_a = (\log G_a + \log J_o)/2$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log D_o = \log D_a + 0{,}196$ $\log J_o = -0{,}35[u_\lambda - u_{\lambda 575}]^2$

$\log [\ D_o, D_a, G_o, J_o\ ]$ Adaptation: λ_{UT}=538

c=-1/log J_o[500] 508 538 575 c=1.26

$\log J^* = c \log(J_o / D_a) + 0{,}5$

$\log G^* = c \log(G_o / D_a) + 0{,}5$

Threshold S_a=0.02

GoJo–>Da, J*, G* IE211–4X

logarithmic O'_a, O'_o-data $u_\lambda = (\lambda - 550) / 50$

$\log O'_a = (\log J_o + \log R_o)/2$ $\log J_o = -0{,}35[u_\lambda - u_{\lambda 575}]^2$

$\log O'_o = \log O'_a + 0{,}03$ $\log R_o = -0{,}35[u_\lambda - u_{\lambda 613}]^2$

$\log [\ O'_o, O'_a, J_o, R_o\ ]$ Adaptation: λ_{UT}=594

575 594 613 c=1

$\log R^* = c \log(R_o / O'_a) + 0{,}5$

$\log J^* = c \log(J_o / O'_a) + 0{,}5$

Threshold S_a=0.02

JoR'o_O'a, R*, J* IE211–5X

logarithmic O'_a, O'_o-data $u_\lambda = (\lambda - 550) / 50$

$\log O'_a = (\log J_o + \log R_o)/2$ $\log J_o = -0{,}35[u_\lambda - u_{\lambda 575}]^2$

$\log O'_o = \log O'_a + 0{,}03$ $\log R_o = -0{,}35[u_\lambda - u_{\lambda 613}]^2$

$\log [\ O'_o, O'_a, J_o, R_o\ ]$ Adaptation: λ_{UT}=594

575 594 613 c=1

$\log R^* = c \log(R_o / O'_a) + 0{,}5$

$\log J^* = c \log(J_o / O'_a) + 0{,}5$

Threshold S_a=0.02

JoR'o_O'a, R*, J* IE211–6X

logarithmic C_a, C_o-data $u_\lambda = (\lambda - 550) / 50$

$\log C_a = (\log B_o + \log G_o)/2$ $\log B_o = -0{,}35[u_\lambda - u_{\lambda 475}]^2$

$\log C_o = \log C_a + 0{,}021$ $\log G_o = -0{,}35[u_\lambda - u_{\lambda 508}]^2$

$\log [\ C_o, C_a, B_o, G_o\ ]$ Adaptation: λ_{UT}=488

475 488 508 c=-1/log G_o[475] c=11.42

$\log G^* = c \log(G_o / C_a) + 0{,}5$

$\log B^* = c \log(B_o / C_a) + 0{,}5$

Threshold S_a=0.02

BoGo–>Ca, G*, B* IE211–7X

logarithmic O'_a, O'_o-data $u_\lambda = (\lambda - 550) / 50$

$\log O'_a = (\log J_o + \log R_o)/2$ $\log J_o = -0{,}35[u_\lambda - u_{\lambda 575}]^2$

$\log O'_o = \log O'_a + 0{,}03$ $\log R_o = -0{,}35[u_\lambda - u_{\lambda 613}]^2$

$\log [\ O'_o, O'_a, J_o, R_o\ ]$ Adaptation: λ_{UT}=594

c=-1/log R_o[575] 575 594 613 c=4.94

$\log R^* = c \log(R_o / O'_a) + 0{,}5$

$\log J^* = c \log(J_o / O'_a) + 0{,}5$

Threshold S_a=0.02

JoR'o_O'a, R*, J* IE211–8X