

$$AO(AO_1, AO_2, AO_3) = (0.33 * AO_1) + (0.33 * AO_2) + (0.33 * AO_3)$$

$$AO_1(KE_3) = \exp(-1.3863 + 0.5591 * KE_3) / (1 + \exp(-1.3863 + 0.5591 * KE_3))$$

$$AO_2(KE_6) = \exp(2.5392 + -3.6743 * KE_6) / (1 + \exp(2.5392 + -3.6743 * KE_6))$$

$$AO_3(KE_11) = \exp(-7.7551 + 0.5091 * KE_11) / (1 + \exp(-7.7551 + 0.5091 * KE_11))$$

$$KE_1(MIE) = 1.1025 + 1.2119 * MIE + -0.0173 * \log(MIE+0.001)$$

$$KE_10(KE_9) = 0.8545 + 10425.6705 * KE_9 + 0 * \log(KE_9+0.001)$$

$$KE_11(KE_10) = 4.6281 + 9.2733 * KE_10 + 0 * \log(KE_10+0.001)$$

$$KE_2(KE_1) = 0.00000000225316 + -0.000000000005116 * KE_1 + 0.000000000151762 * \log(KE_1+0.001)$$

$$KE_3(KE_2) = 4.02 + 39823293940.88 * KE_2 + 0 * \log(KE_2+0.001)$$

$$KE_4(MIE) = 1.0035 + 0.0046 * MIE + 0.07 * \log(MIE+0.001)$$

$$KE_5(KE_4) = \max(0, 1.7644 + -0.9669 * KE_4 + 0.9348 * \log(KE_4+0.001))$$

$$KE_6(KE_6_1, KE_6_2) = 0.5 * KE_6_1 + 0.5 * KE_6_2$$

$$KE_6_1(KE_5) = 0.5616 + 0.6663 * KE_5 + 0.1373 * \log(KE_5+0.001)$$

$$KE_6_2(KE_8) = 0.669 + 0.102 * KE_8 + 0.996 * \log(KE_8+0.001)$$

$$KE_7(MIE) = 0.9785 + -0.0011 * MIE + -0.07 * \log(MIE+0.001)$$

$$KE_8(KE_7) = -1.483 + 2.901 * KE_7 + -1.678 * \log(KE_7+0.001)$$

$$KE_9(MIE) = 5.93E-06 + 2.02E-07 * MIE$$

$$MIE(UV) = 18.66698376 + \log(28.57017568 * UV + 0.001)$$