True vs inferred regression coefficients: soiERbasal abiotic abiotic abiotic Trophic level 1 Trophic level 2 Trophic level 3 1.00 1.00 0.6 0.75 0.75 0.4 0.50 0.50 0.2 0.25 0.25 0.00 0.0 0.00 0.6 0.8 0.1 0.2 0.4 0.25 0.50 0.75 0.2 0.3 0.5 0.4 Inferred biotic biotic Trophic level 2 Trophic level 3 0.50 0.25 0.25 0.00 0.00 -0.25-0.25-0.50-0.50 2.5 7.5 2 5.0 3 5 Truth proxy