

1086-AC-1251      **Fred Roberts\*** ([froberts@dimacs.rutgers.edu](mailto:froberts@dimacs.rutgers.edu)), DIMACS, Rutgers University, 96  
Frelinghuysen Road, Piscataway, NJ 08854. *Measurement of Biodiversity*.

One of the great concerns with climate change and global change more generally is the effect on the diversity of life on the planet and an indicator of global change is the level of biodiversity. There is a long history of attempts to define this concept precisely, but the difficulty is that this concept has many dimensions. An index of biodiversity allows us to set specific goals and measure progress toward them. We will explore alternative indices of biodiversity and discuss axiomatic approaches leading to such indices. (Received September 20, 2012)