This talk synthesizes the emerging literature on the practices of open science and discusses its implications for geographic research and education. Eight dimensions of open science are identified and their relevance for geographic research and education is critically analyzed. While the opportunities created by the open science paradigm may be exciting, there are academic, legal, and social/political barriers for practicing open science. It is time to have a broader conversation on how the open science paradigm will shape our research and educational agendas in the future.