

# GLOBAL CLIMATE CHANGE: FACT OR FICTION? EVIDENCE FROM ANTARCTIC ICE

R.D. Dallmeyer

---

REFERENCE: *Proceedings of the 2011 Georgia Water Resources Conference*, held April 11–13, 2011, at the University of Georgia.

---

**Abstract.** Compelling evidence documents the reality of recent global climate change. The cause(s) of this change and its significance in the geologic climate history of Earth has been uncertain. Completion of several ice drilling projects in Antarctica have provided an unbroken record of global temperatures and atmospheric composition for more than 820,000 years. The data record 8 major, approximately 100,000-year long global climate cycles. These involve rapid warming following a global glacial episode following by erratic and slow cooling into the subsequent global interglacial period. Although this pattern has been documented back over 800,000 years, there are consistent differences in details between the climate cycles occurring between 820,000 and 420,000 years and the more recent ones that have occurred within the last 420,000 years. The older cycles are characterized by less cold glacial maxima, much less warm interglacials and a higher proportion of time in interglacial conditions.