

"The value and importance of sustaining observations over long timescales"

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On **5th May 2014** at **9:00 am** in the large meeting room of **Global Change Research Centre AS CR, v. v. i.**; Brno, Bělidla 986/4a

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Today, and into this century, scientific questions continue to progress and the observation systems with them. Critical questions likely will center on greenhouse gas emission reduction efforts, ecosystem feedbacks, and climate surprises. Regional information will become increasingly critical to supporting greenhouse gas emission reduction efforts, yet this information must be accurate, precise, and without bias. With emerging diverse, regionalized efforts to monitor greenhouse gases, inter-comparability of measurements and measurement systems becomes more important than ever. The greenhouse gas issue may be a global problem, but it is one that will be solved through varied regional efforts. Thus, consistency among measurements is crucial to the successful reduction of emissions. This presentation will identify major, climate-relevant findings that have come from NOAA's networks over the past 50 years and those of others over the past several decades and will address the long-term monitoring needs to support decision-making over the next decades as society begins to seriously address climate change.