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A Climate Change Primer for Land Managers: An Example from the Sierra Nevada

By Toni Lyn Morelli

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 52 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. The objective of this paper is to present a template for conducting a review of the latest climate research for a particular management unit. As an example, background material is provided from a recent climate change adaptation workshop held in Bishop, California, including some of the latest climate change projections relevant to the eastern Sierra Nevada, as well as a glossary of terms. This work was part of the Westwide Climate Initiative (WWCI)s Toolkit for Adapting to Climate Change on Western National Forests. Globally, the average, minimum, and maximum temperatures are rising as a result of human-induced increases in greenhouse gases. Other global physical effects of anthropogenic climate warming include the melting of arctic sea ice and land-based ice bodies, thawing of the permafrost, global sea level rise, earlier spring runoff, and more frequent and more extreme weather events. Biologically, species ranges are shifting poleward and upward, and phenology is changing. In California, rising sea levels, increasing average and extreme temperatures, changing precipitation regimes, and more frequent and severe wildfires are also projected. Scientists have already observed an increase in rain...



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