



## Water Isotopes in Precipitation: Data/Model Comparison for Present-Day and Past Climates (Paperback)

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precipitation both on a geographical and on a temporal basis. These variations, resulting from
successive isotopic fractionation processes at each phase change of water during its atmospheric
cycle, are well documented through the IAEA/WMO network and other sources. Isotope
concentrations are, in middle and high latitudes, linearly related to the annual mean temperature
at the precipitation site. Paleoclimatologists have used this relationship to infer paleotemperatures
from isotope paleodata extractable from ice cores, deep groundwater and other such sources. For
this application to be valid, however, the spatial relationship must also hold in time at a given
location as the location undergoes a series of climatic changes. Progress in water isotope modeling
aimed at examining and evaluating this assumption has been recently reviewed with a focus on
polar regions and, more specifically, on Greenland. This article was largely based on the results
obtained using the isotopic version of the NASA/GISS Atmospheric General Circulation Model (AGCM)
fitted with isotope tracer diagnostics. We extend this review in comparing the results of two different
isotopic AGCMs (NASA/GISS...



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