Trends in water, wind and solar resources over recent decades and connections with climate forcings and variability

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Exploitation of water and renewable energy resources depend on understanding the variability and trends in climate parameters such as precipitation amount and pattern, incident surface solar radiation, and near-surface windspeed. The association of these resources with climate might enable better uncertainty assessments and long-term forecasts. We will use observations and reanalysis to assess interannual variability and trends in parameters related to these resources and correlate them with modes of variability in pressure and sea surface temperature fields and with changing greenhouse gas and aerosol forcing.