

## **Global Climate Change: A Hot Topic**

**Sunday, September 8 at 9:00 am in the Bloom Room**

Climate change is arguably the greatest issue within the Episcopal Church's important focus on Creation Care. In 2017, the average surface temperature on Earth reached 1.5 deg Celsius (equivalent to 2.67 deg F) above the pre-industrial mean temperature prior to 1850. The average temperature is now rising at approximately 0.25 deg C (0.45 deg F) per decade. Environmental changes are sensitive to atmospheric changes, including rising sea levels and pending changes in ocean currents, stronger and more destructive tropical storms and heat waves, greater stress on water resources, and impacts to significant ecosystems. Don Lundy's presentation will summarize what has been learned by the community of concerned scientists, with information from government publications and from my own investigations. It will include climate model projections of possible future conditions, with UN and 4th National Climate Assessment recommendations. Those include adapting to and mitigating pending global changes and impacts on future water resources in the SW and elsewhere. He will suggest what individuals might consider doing about this situation.

***Don Lundy, PhD, is a Principal Hydrogeologist at Groundwater & Environmental Services, Inc., which is part of the Environmental Informatics Group. He now works part-time, remotely, from Tucson, supporting projects with his outside clients, and gives support where needed on other GES projects originating in other offices.***