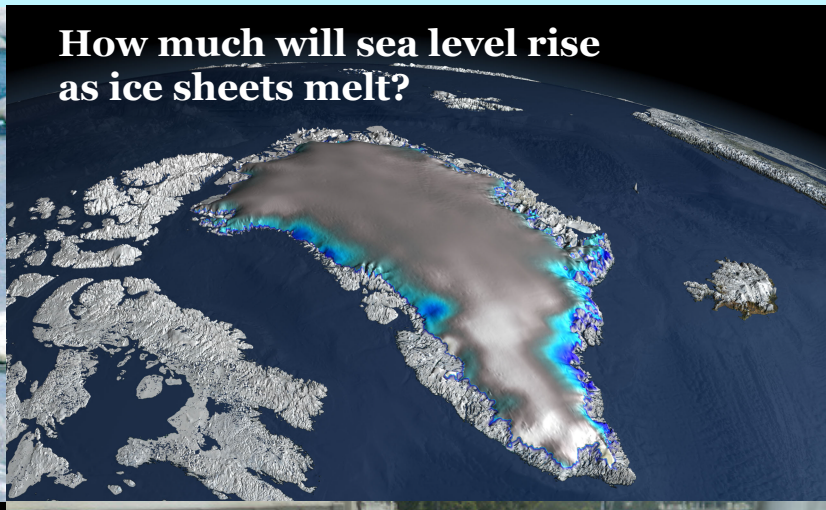
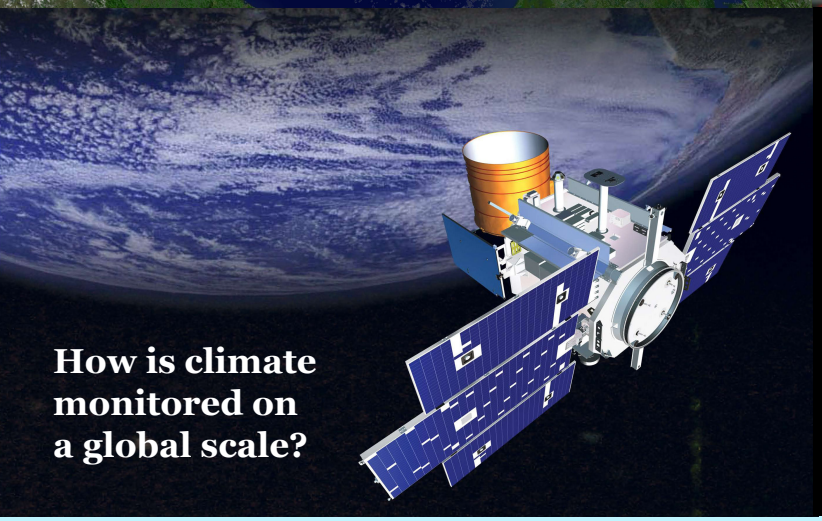
Math Awareness Month - April 2009

Mathematics and Climate

Find out how math and science are used to address questions of climate change:

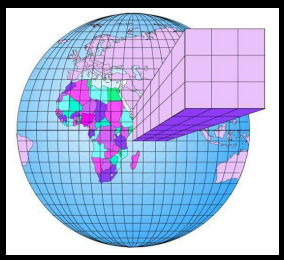




How can we improve our understanding of climate change and what can we do about it?

$$\frac{\partial \mathbf{u}}{\partial t} + (\mathbf{u}\cdot\nabla)\,\mathbf{u} = -\frac{1}{\rho}\nabla p + \mathbf{F} + \frac{\mu}{\rho}\nabla^2\mathbf{u}$$

$$\frac{\partial \rho}{\partial t} + \nabla\cdot(\rho\mathbf{u}) = 0$$



www.mathaware.org

Joint Policy Board for Mathematics: American Mathematical Society, Mathematical Association of America,
Society for Industrial and Applied Mathematics, American Statistical Association