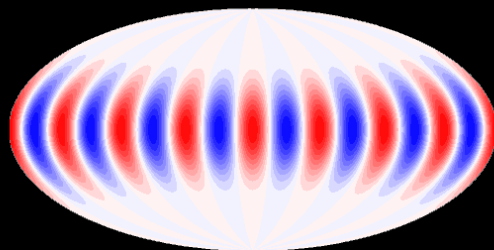
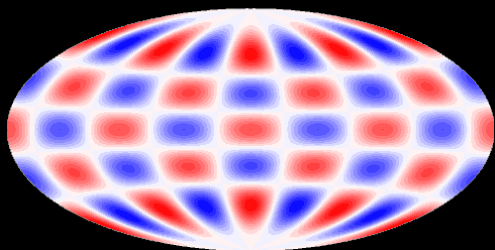
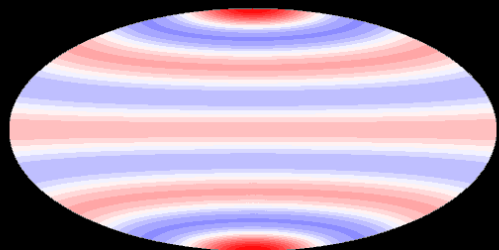
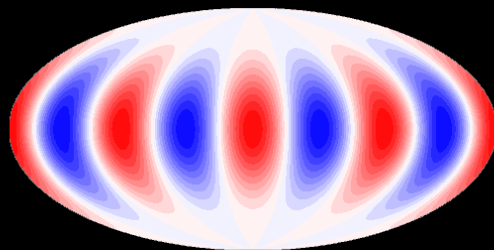
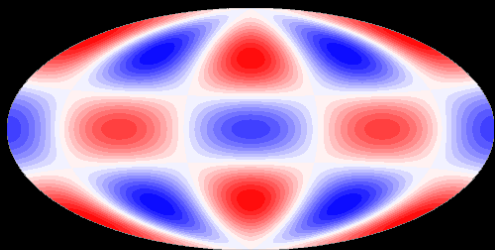
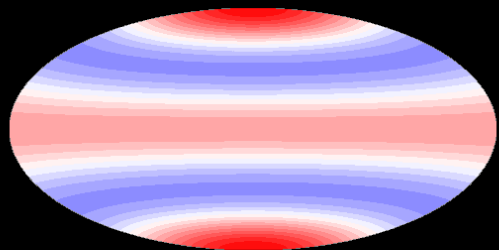
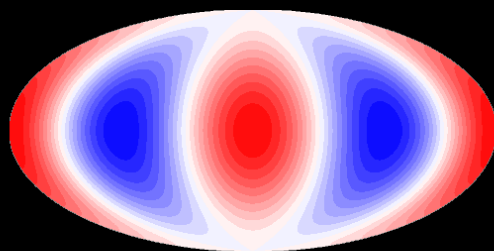
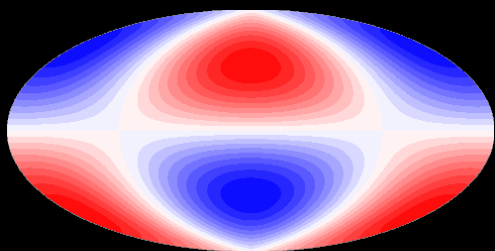
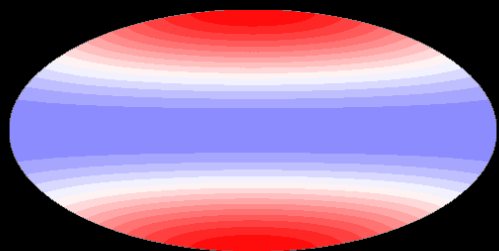
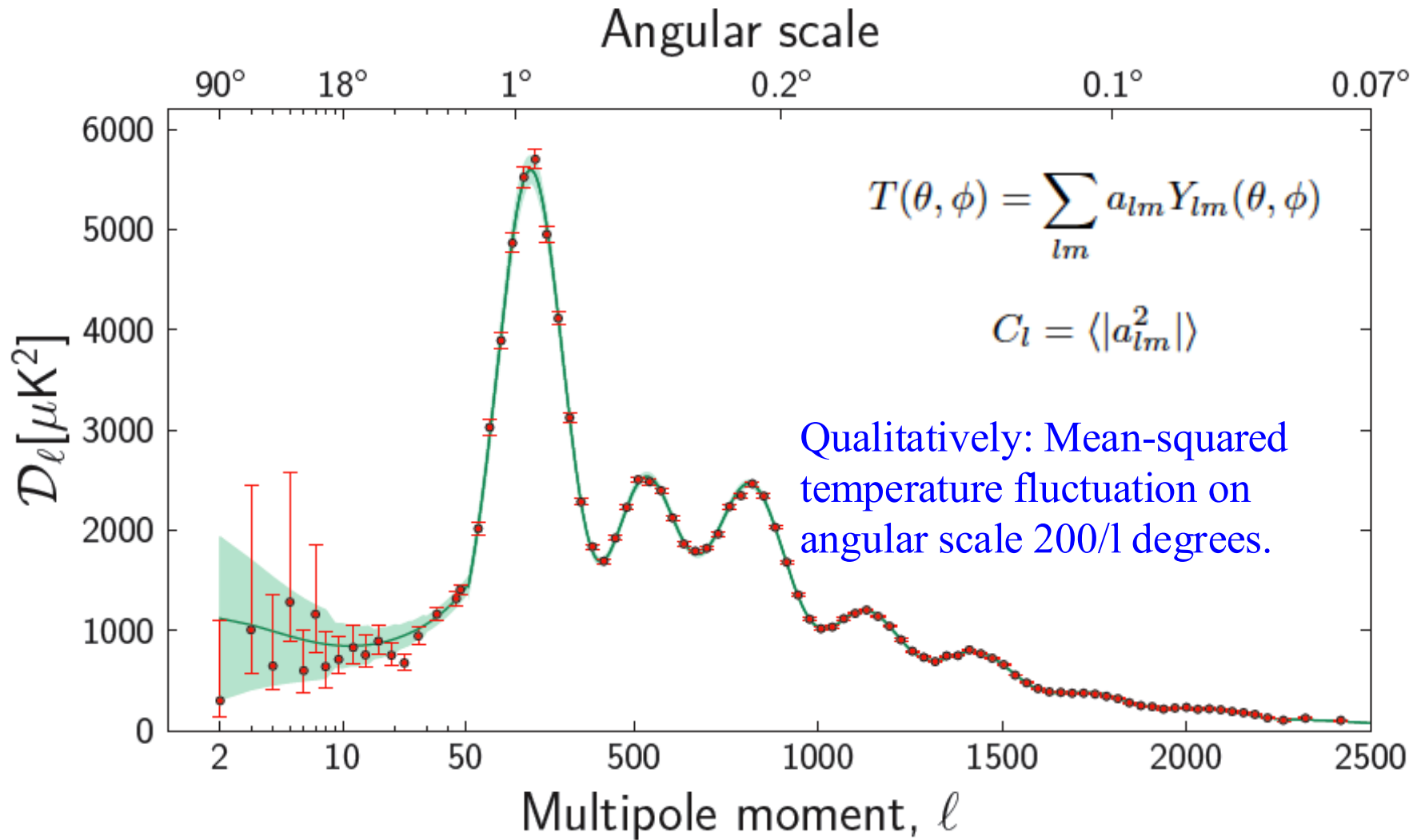
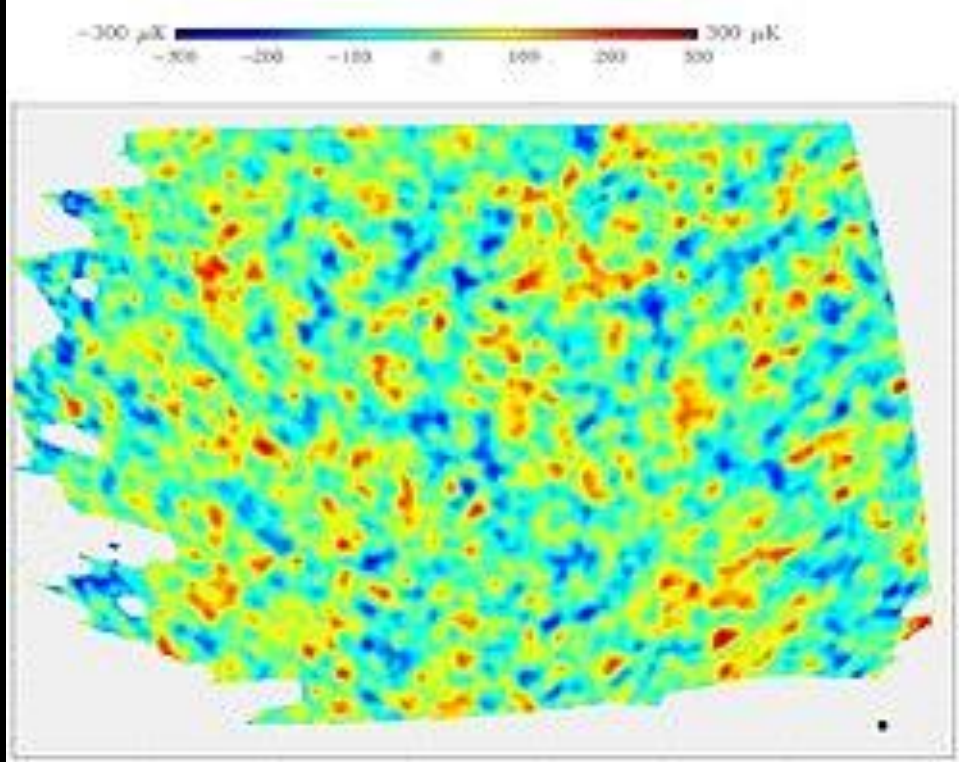


Cosmic Background Explorer (COBE), 1992++







Boomerang Balloon CMB Map, 2000

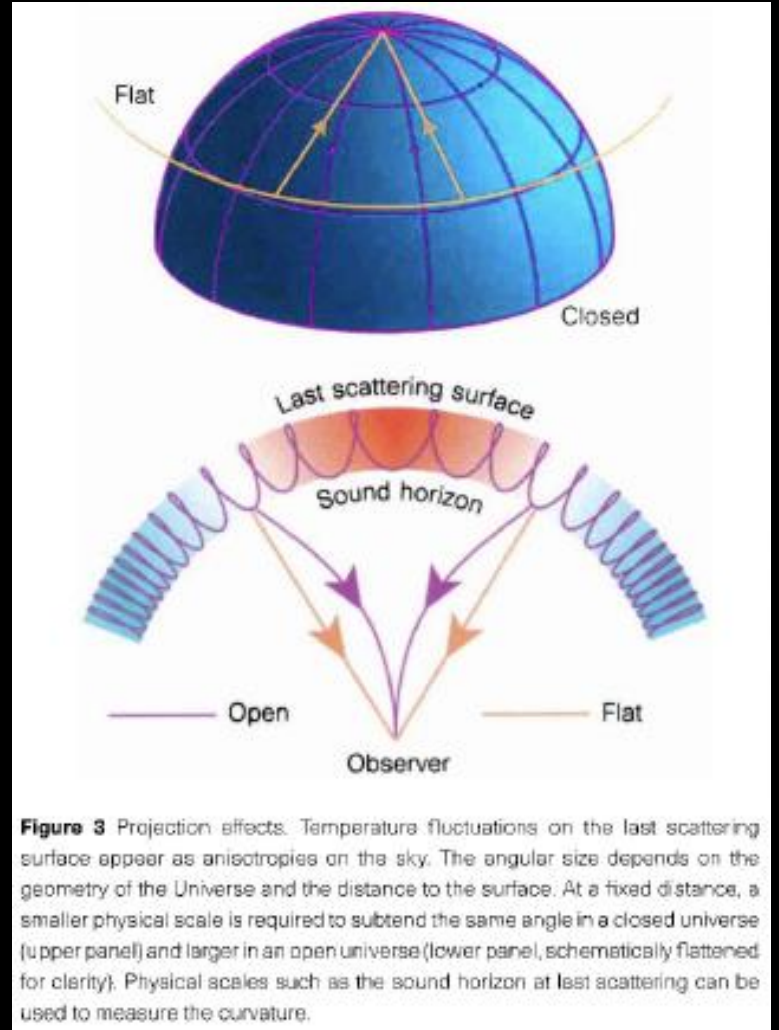
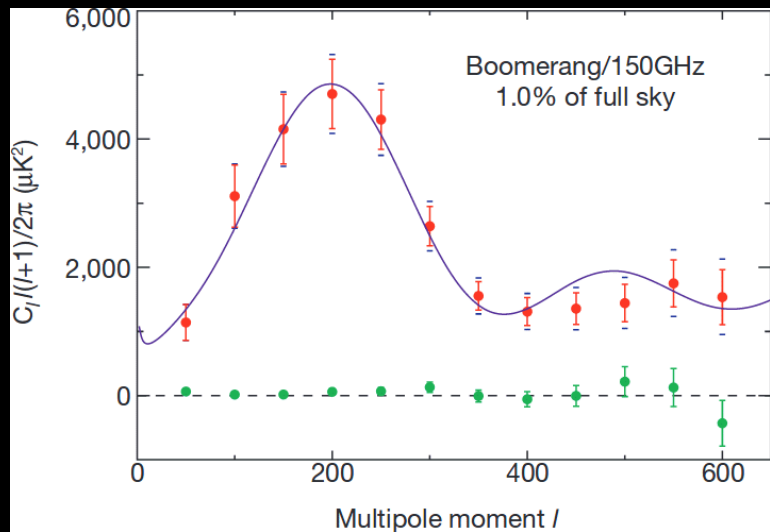
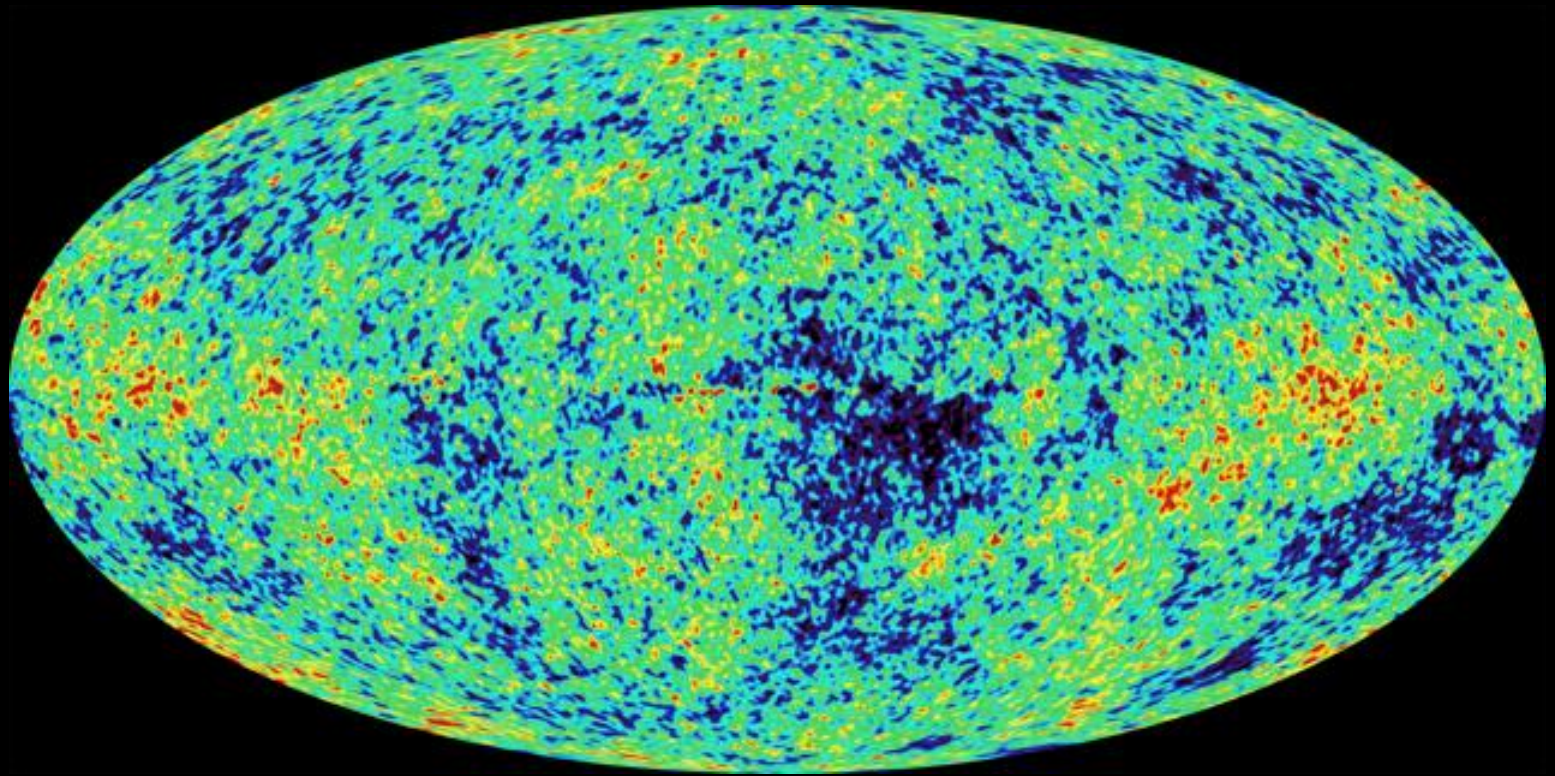
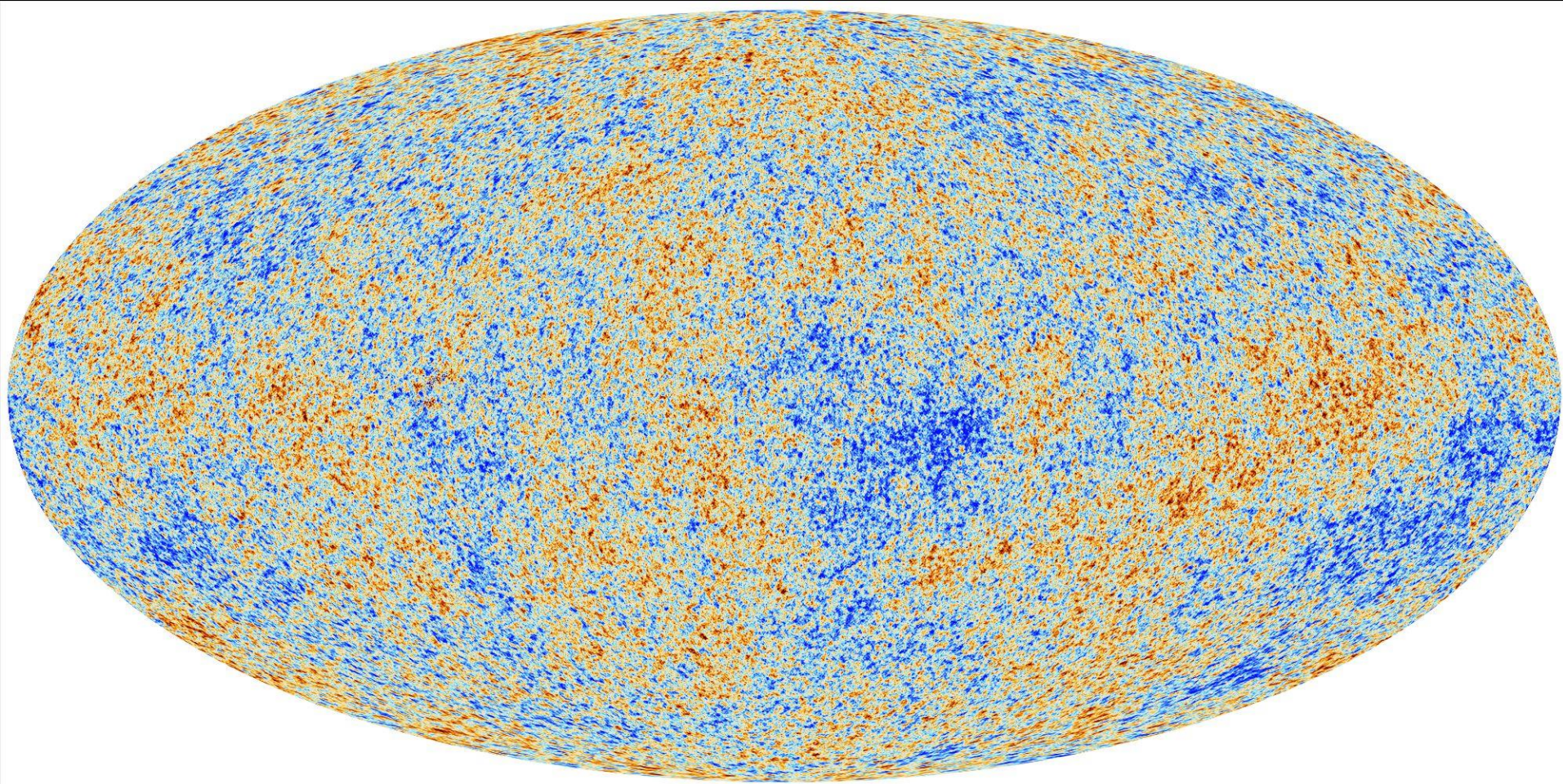


Figure 3 Projection effects. Temperature fluctuations on the last scattering surface appear as anisotropies on the sky. The angular size depends on the geometry of the Universe and the distance to the surface. At a fixed distance, a smaller physical scale is required to subtend the same angle in a closed universe (upper panel) and larger in an open universe (lower panel, schematically flattened for clarity). Physical scales such as the sound horizon at last scattering can be used to measure the curvature.

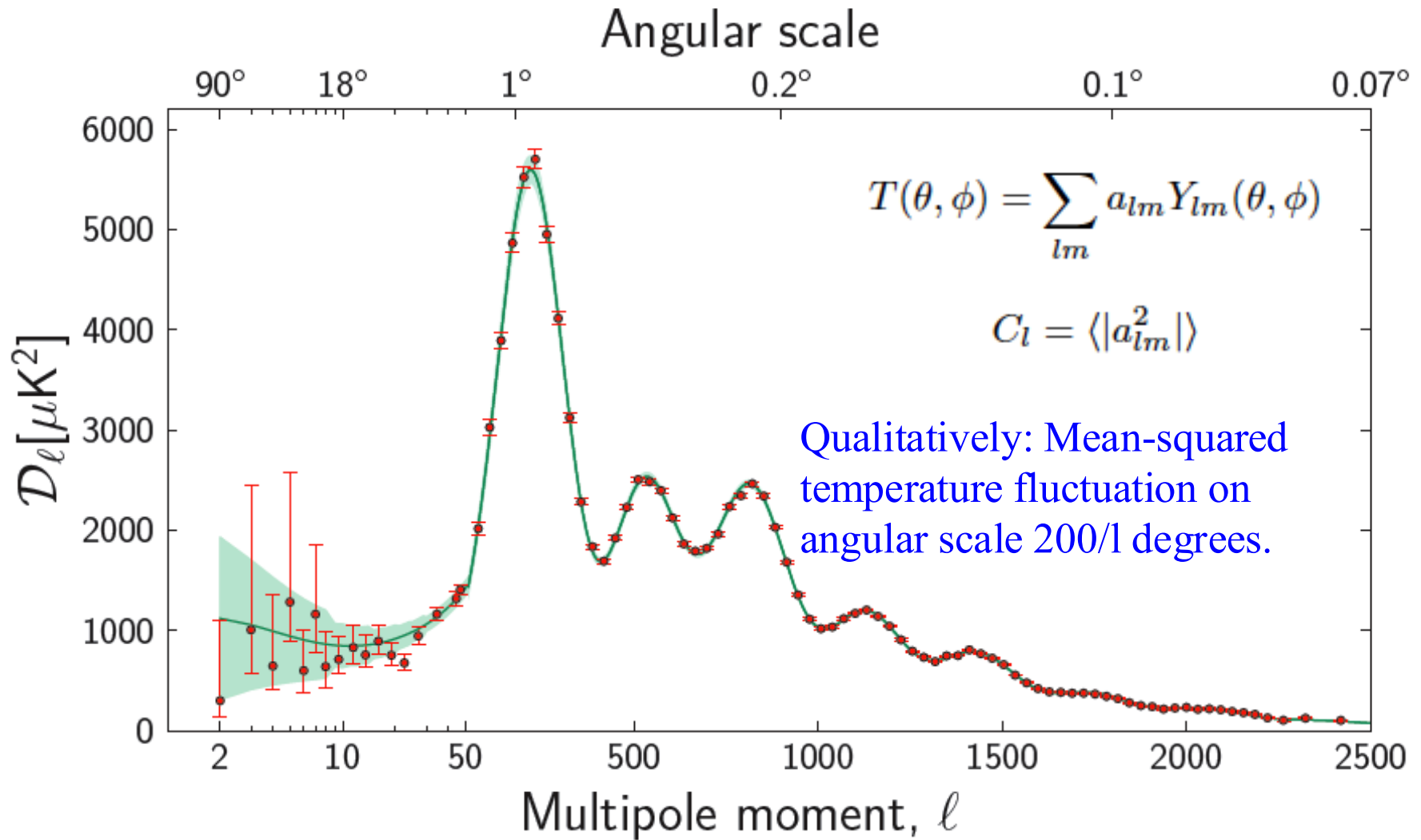
Hu, Sugiyama, & Silk 1997

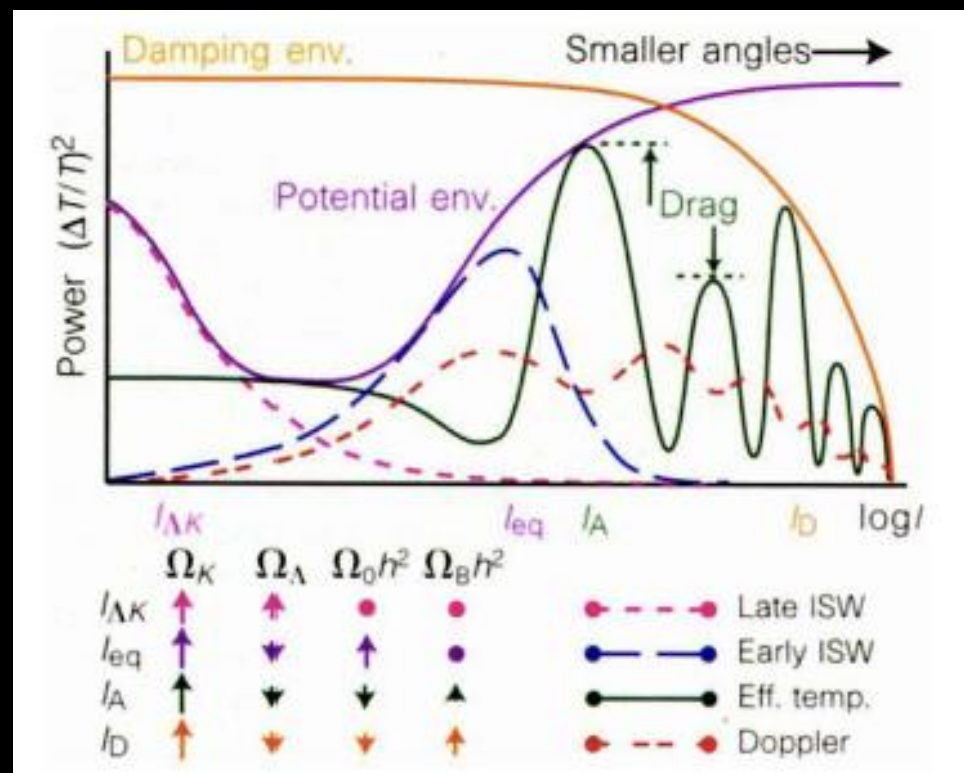
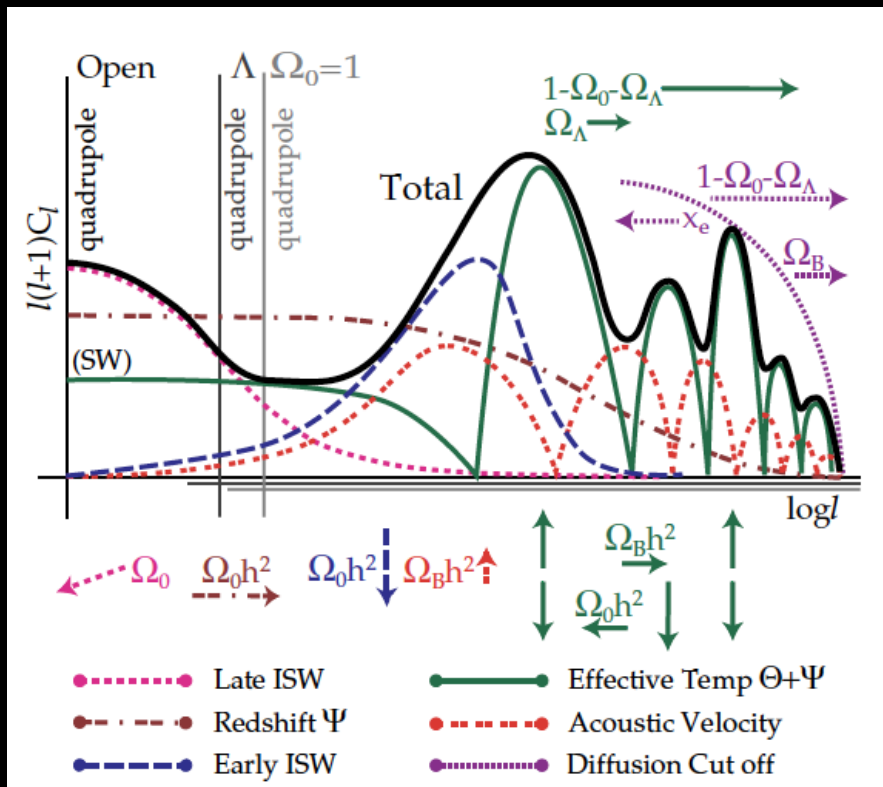


Wilkinson Microwave Anisotropy Probe (WMAP), 2001-2010
First results 2003, "Final" results ~2009.



Planck CMB mission, 2009-2013 [“Final” results ~ 2018]





Hu, Sugiyama, & Silk
Astro-ph/9504057

Nature, 386, 37, March 6 1997

