1116-43-2283   **Linden Anne Duffee*** (`linden.duffee@gmail.com`), Department of Mathematics, The University of Alabama, Box 870350, Tuscaloosa, AL 35487. *On the Harmonic and Geometric Maximal Operators.*

We will survey some results about harmonic and geometric maximal operators, in particular norm inequalities on weighted L^p spaces. Our main results include two weight bounds for dyadic versions of these operators in higher dimensions without doubling conditions on the weights. Time permitting, we will discuss further results for these operators on a general basis. (Received September 22, 2015)