1016-32-86   **Anne-Katrin Herbig*** (`herbig@umich.edu`), Dept. of Math., University of Michigan, 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109, and **Jeffery D McNeal** (`mcneal@math.ohio-state.edu`), Dept. of Math, Ohio State University, 231 West 18th Avenue, Columbus, OH 43210. *Global regularity of the Bergman projection on forms.*

Let D be a smoothly bounded domain in $\mathbb{C}^n$. Suppose D has a smooth defining function, such that the sum of any j eigenvalues of its complex Hessian is non-negative on the boundary of D. We show that this condition implies global regularity of the Bergman projection on $(0,q)$-forms for $j-1 \leq q \leq n$. This extends the result by Boas and Straube, that global regularity of all Bergman projections follows, if D admits a smooth defining function which is plurisubharmonic on the boundary of D. However, our method of proof differs considerably. This is joint work with J.D. McNeal. (Received February 02, 2006)