1041-16-189 Susan J. Sierra* (ssierra@umich.edu), Department of Mathematics, Box 354350, University of Washington, Seattle, WA 98195. The classification of birationally commutative projective surfaces. We complete an important case of the classification of noncommutative surfaces by classifying all birationally commutative projective surfaces. That is, we classify N-graded noetherian domains of Gelfand-Kirillov dimension 3 whose graded quotient ring is of the form $K[z, z^{-1}; \sigma]$ for a field K and automorphism σ of K. This generalizes work of Rogalski and Stafford on birationally commutative surfaces that are generated in degree 1; our proof techniques are quite different. (Received August 11, 2008)