Jennifer W. Stone* (stonejw@auburn.edu). Union of two non-metric spaces that each support a Whitney map does not necessarily support a Whitney map.

In 2000 J.J. Charatonik and W.J. Charatonik showed that the non-metric indecomposable continuum example given by Gutek and Hagopian will support a Whitney map on C(X) the hyperspace of subcontinua. In 2006 the author showed that there exists a non-metric continuum, where every non-degenerate subcontinuum is non-metric, which will support a Whitney map. In this paper it is shown that given two non-metric continua that support Whitney maps (for C(X)), their union does not necessarily support a Whitney map. Conditions on continua for which the existence of a Whitney map on C(X) implies metitrizability are considered. (Received September 06, 2007)