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Jing Zhang* (jzhang@albany.edu), 1400 Washington Avenue, ES110, Department of Mathematics and Statistics, Albany, NY 12222. *Stein open subsets with Analytic Complements in Compact Complex Spaces.*

Let Y be an open subset of a reduced compact complex space X such that $X - Y$ is support of an effective divisor D . If X is a surface and D is an effective Weil divisor, we give sufficient conditions so that Y is Stein. If X is of pure dimension $d \geq 1$ and $X - Y$ is support of an effective Cartier divisor D , we show that Y is Stein if Y contains no compact curves, $H^i(Y, \mathcal{O}_Y) = 0$, for all $i > 0$ and for every point $x_0 \in X - Y$, there is an $n \in \mathbb{N}$ such that $\Phi_{|nD|}^{-1}(\Phi_{|nD|}(x_0)) \cap Y$ is empty or has dimension 0, where $\Phi_{|nD|}$ is the map from X to the projective space defined by a basis of $H^0(X, \mathcal{O}_X(nD))$. (Received September 15, 2013)