Holomorphic convexity and pseudoconvex surfaces

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Abstract. We prove that an irreducible complex surface X is holomorphically convex provided that there exists a plurisubharmonic exhaustion function $\varphi: X \longrightarrow [-\infty, \infty)$, not necessary continuous, and $\mathcal{O}(X) \neq \mathbb{C}$.

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