G_{δ} covers of compact spaces

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For any space *X* let X_{δ} denote *X* endowed with the topology generated by all G_{δ} subsets of *X*. Arhangel'skii asked whether the weak Lindelof degree of X_{δ} is bound by the continuum whenever *X* is compact and Hausdorff. We construct an example which answers this question in the negative.

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