Two topological games $LF_{KP}(X)$ and $LF_{KL}(X)$ due to Gary Gruenhage proceed as follows: each round, the first player $K$ chooses a compact set in $X$, followed by the second player $P$ (resp. $L$) choosing a point (resp. compact set) in $X$ which misses every compact set chosen by $K$ previously. The game proceeds for $\omega$-many rounds, and $K$ wins the game if the points (resp. compact sets) chosen by her opponent are locally finite in $X$. For locally compact $X$, various covering properties are characterized by the presence of winning limited information strategies for player $K$, strategies which only require partial memory of the history of the opponent’s moves. In addition, by investigating these limited information strategies, we obtain a novel proof of the equivalency of various covering properties in locally compact spaces: $X$ is Lindelöf iff $X$ is $\sigma$-compact iff $X$ is hemicompact. We will introduce these games and demonstrate the intuition behind these results, which were part of the speaker’s early work toward his dissertation. (Received September 14, 2013)