

V. Tkachuk proved, under CH, that first countable Hausdorff spaces that are either Lindelof or CCC have point-countable  $\pi$ -bases. We show that these statements may fail if CH does. Our examples are constructed from certain ideals on  $\omega$  that have  $\omega_2$  as a caliber in a non-trivial manner. (The cardinal  $\kappa$  is said to be a *caliber* of an ideal I iff among any  $\kappa$  members of I there are  $\kappa$  many whose union is in I.)