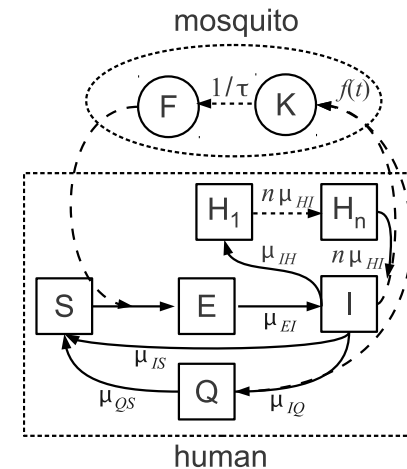
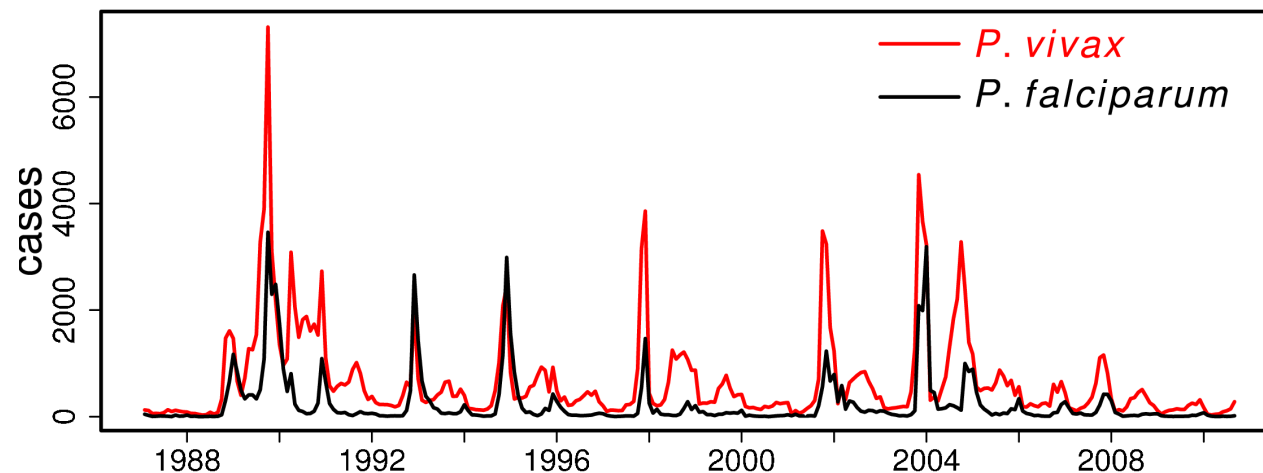


Vivax malaria: relapse and persistence



- Vivax causes extensive anemia & low birthweight. It is far from benign.
- A neglected disease; short of dynamic models fitted to data!
- Relapse is critical for persistence in NW India (M. Roy et al, in preparation).

Plug-and-play inference: some 2011 papers

- Iterated filtering (*Annals of Statistics*)
- Malaria in Northwest India: Data analysis via partially observed stochastic differential equation models driven by Lévy noise (*J. Am. Stat. Assoc.*)
- Compound Markov counting processes and their applications to modeling infinitesimally over-dispersed systems (*Stoch. Proc. & Applications*)
- Efficient iterated filtering (*IFAC-SYSID, to appear*)

Plans: plug-and-play for panel data (malaria, HIV)