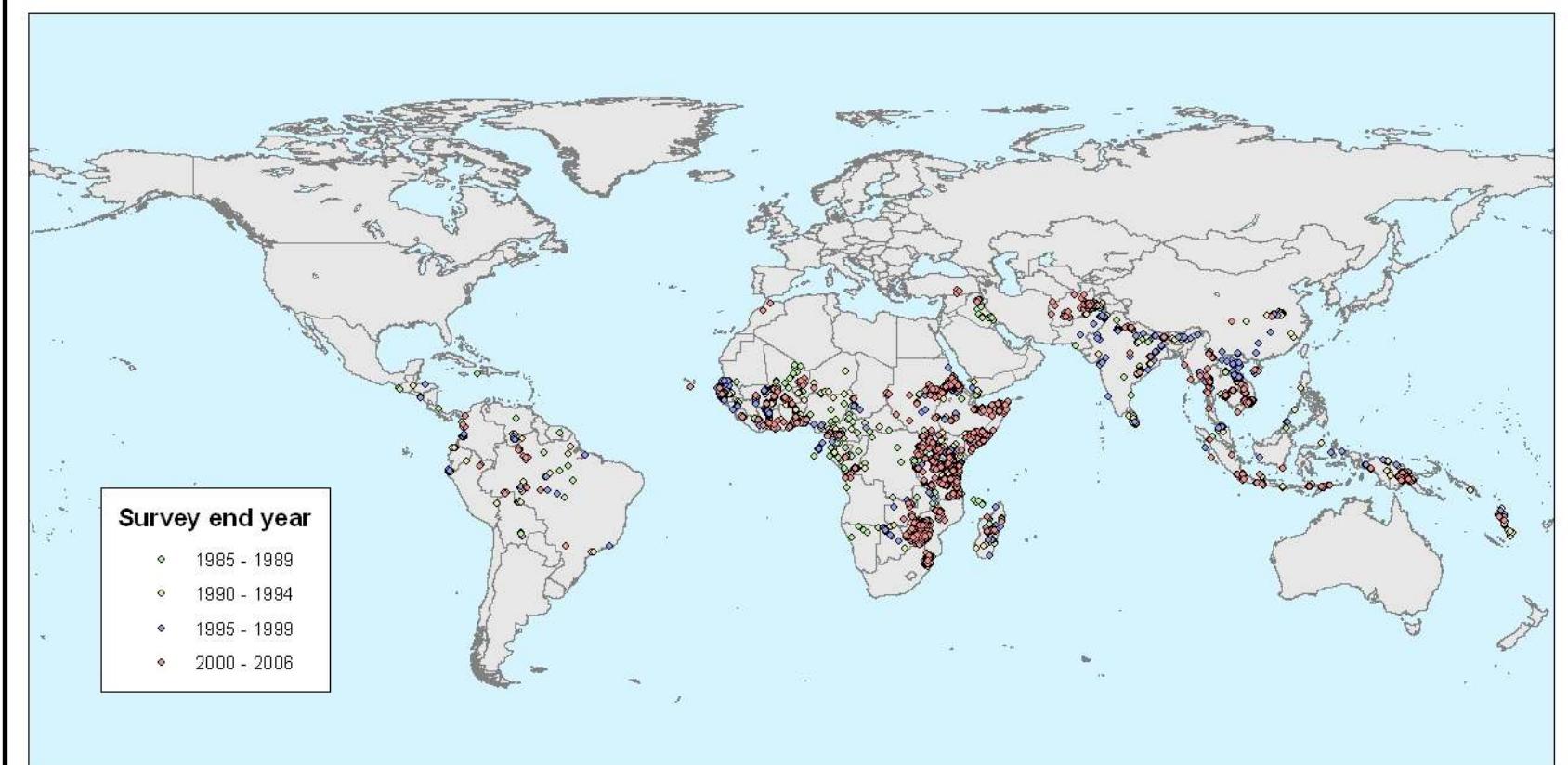


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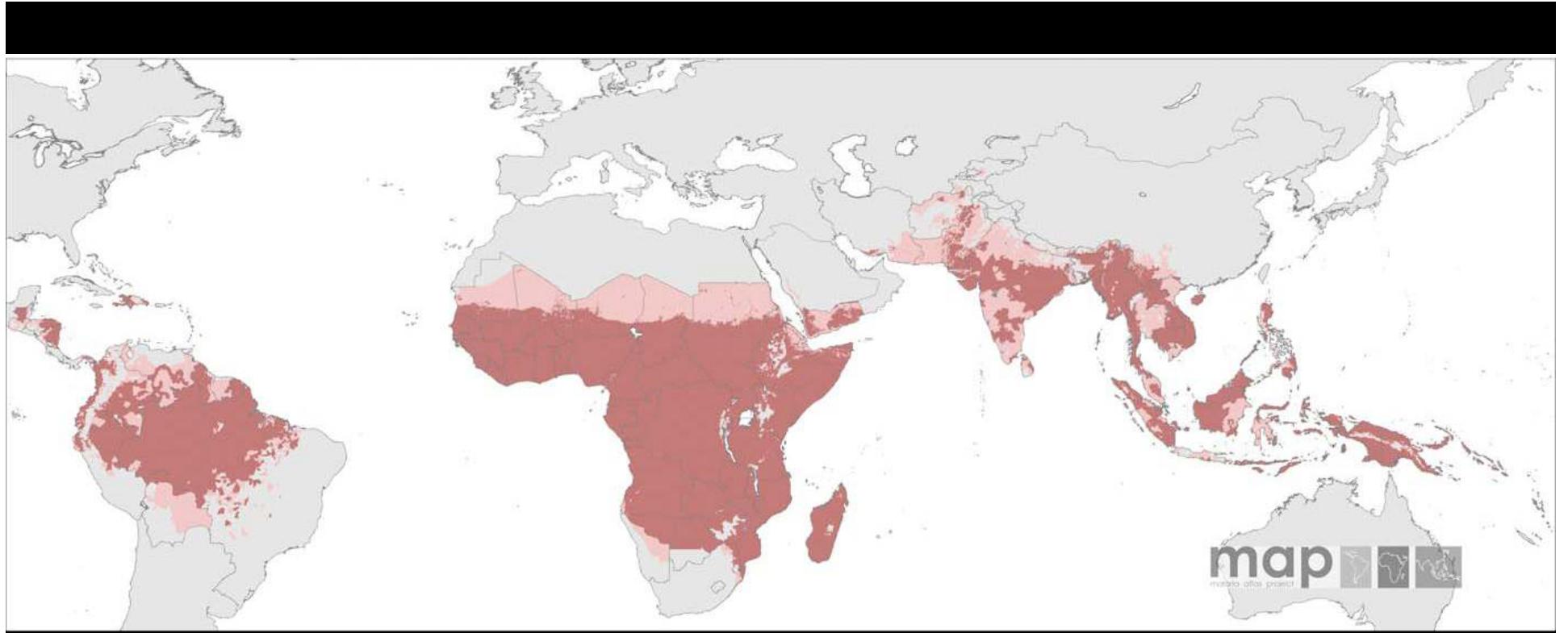
Infectious Disease : evolving challenges to human health





P. falciparum PR points - Globe





The Limits and Intensity of *Plasmodium falciparum* Transmission: Implications for Malaria Control and Elimination Worldwide

Carlos A. Guerra^{1,2}, Priscilla W. Gikandi¹, Andrew J. Tatem^{1,2}, Abdisalan M. Noor^{1,3}, Dave L. Smith⁴, Simon I. Hay^{1,2*}, Robert W. Snow^{1,3*}

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Future Directions

- Incremental improvements
 - Immunity (Klein, *et al.*, in review)
 - Superinfection
- Nested, Hierarchical, Individual-based, Stochastic Comprehensive Malaria Models
- Formalized analysis of “robustness”
- Data Repositories
- Modeling pow-wows

Resistance Modeling

- Immunity (Klein, *et al.*, in review)
- Superinfection
- Individual-based model
- Formalized analysis of robustness