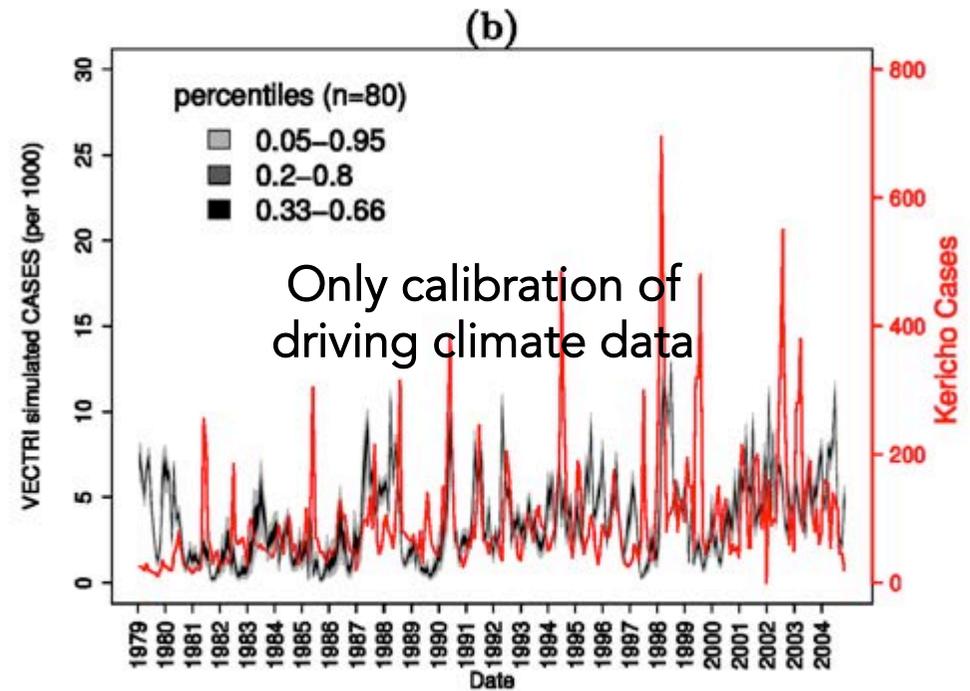
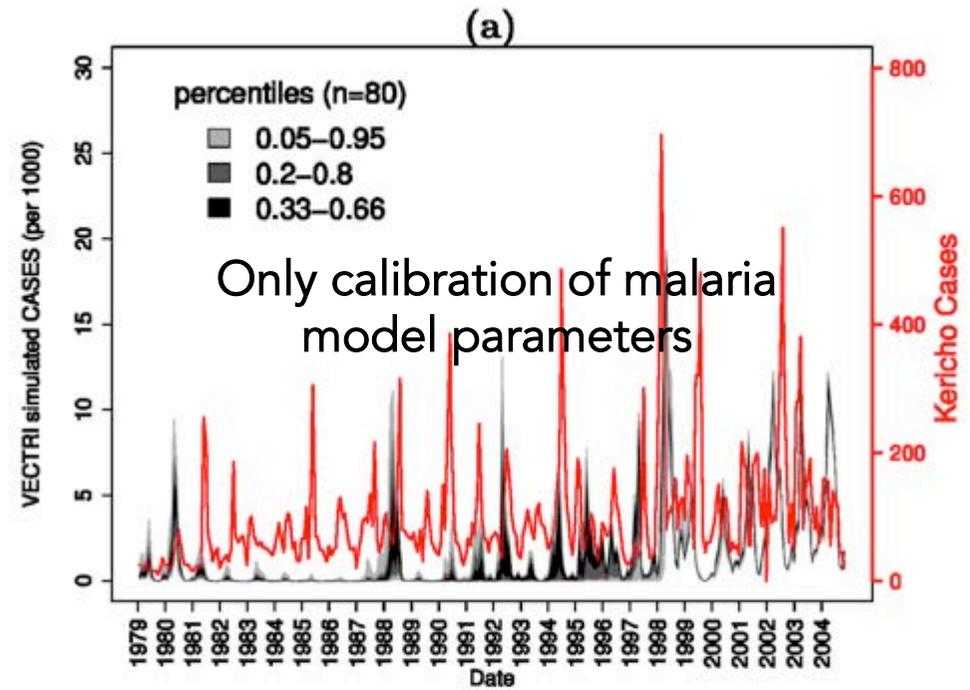
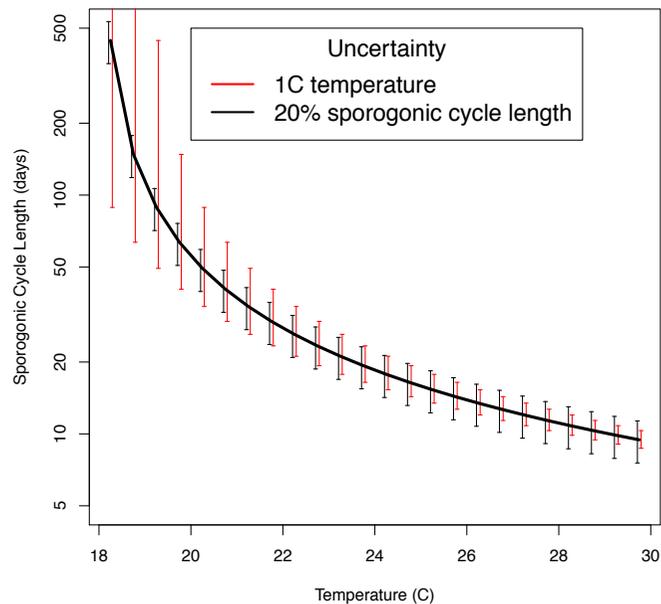
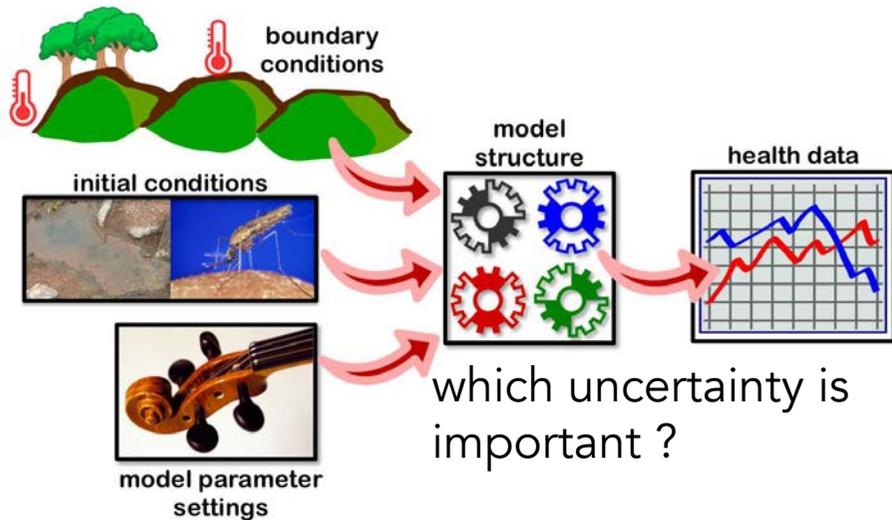


ICTP

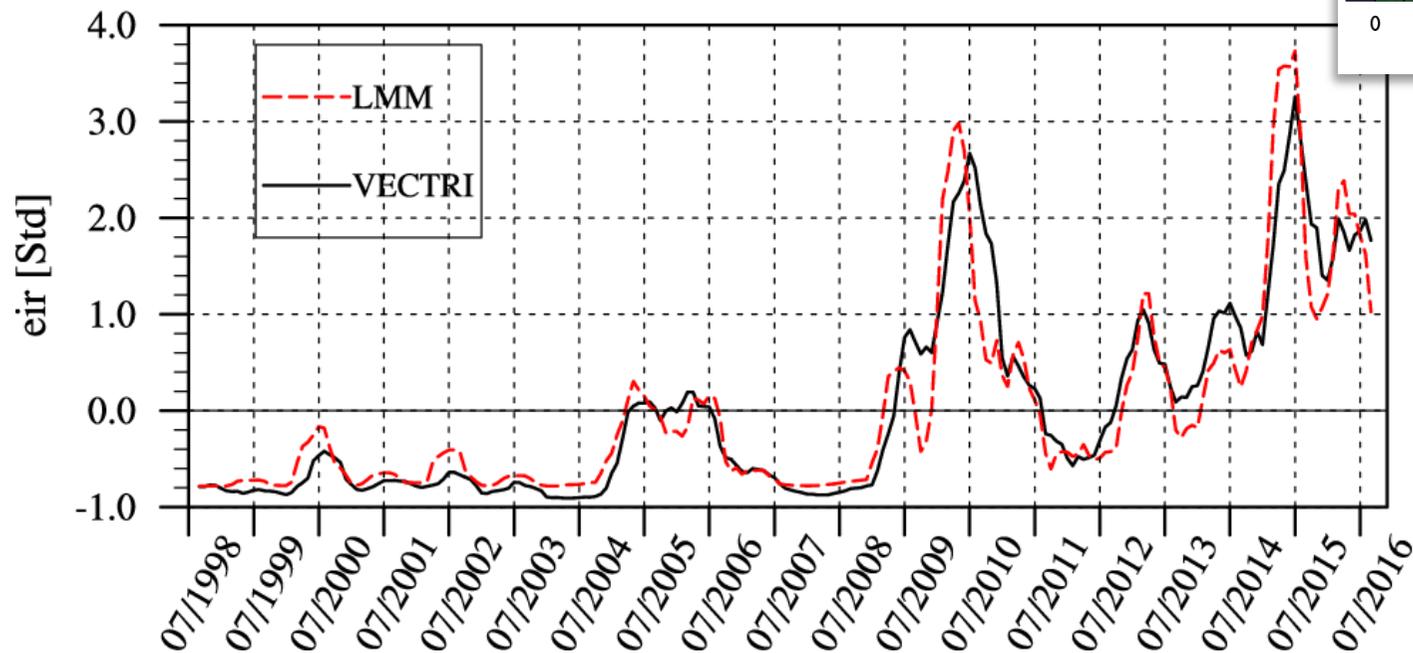
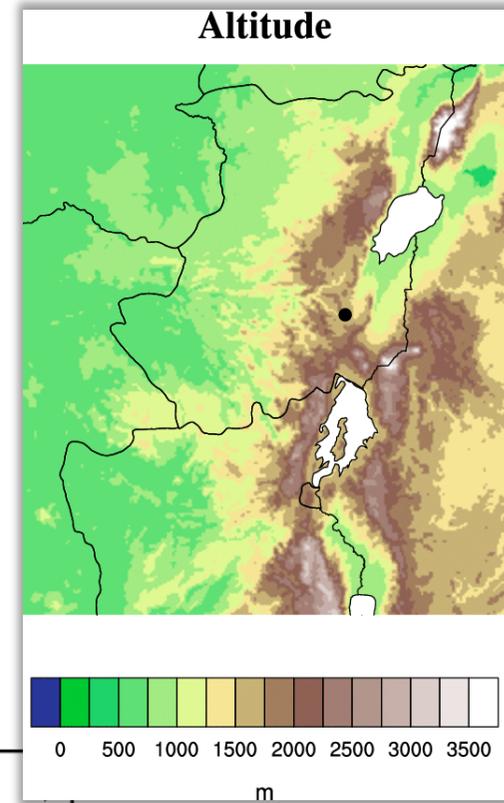
- Publications
 - WGSIP CHFP paper to appear in BAMS in November
 - coauthored chapter in S2S book (editors Andy Robertson and Frederic Vitart)
 - Health Early warning Uganda in WMO-WHO book and PNAS next month
 - Work on importance of entrainment on convective organization when using grey-zone resolutions published in JAMES
- Developments in S2S-seasonal health impacts:
 - Automated genetic algorithm for calibration (IRI, PLOS)
 - Numerous numerical and process improvements (e.g. immunity, hydro).
 - Malaria seasonal forecast system set up with SYNTEX2-driven VECTRI with JAMSTEC for S. Africa
 - Guidance given to Médecins Sans Frontières (MSF) for recent trends in highland malaria in eastern Congo (with Uni Liverpool)
 - New project on dengue prediction with NUS and government of Singapore.
- Workshops:
 - S2S teleconnections workshop next week at ICTP
 - S2S workshop at EAIFR (Rwanda) postponed to 2018
 - ICTP Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Multiple Equilibria in the Climate System June 25 2018 (annual event with focus each year)
 - Next call deadline for proposals: March 2018 for 2019 activities

Malaria in Kenyan highlands

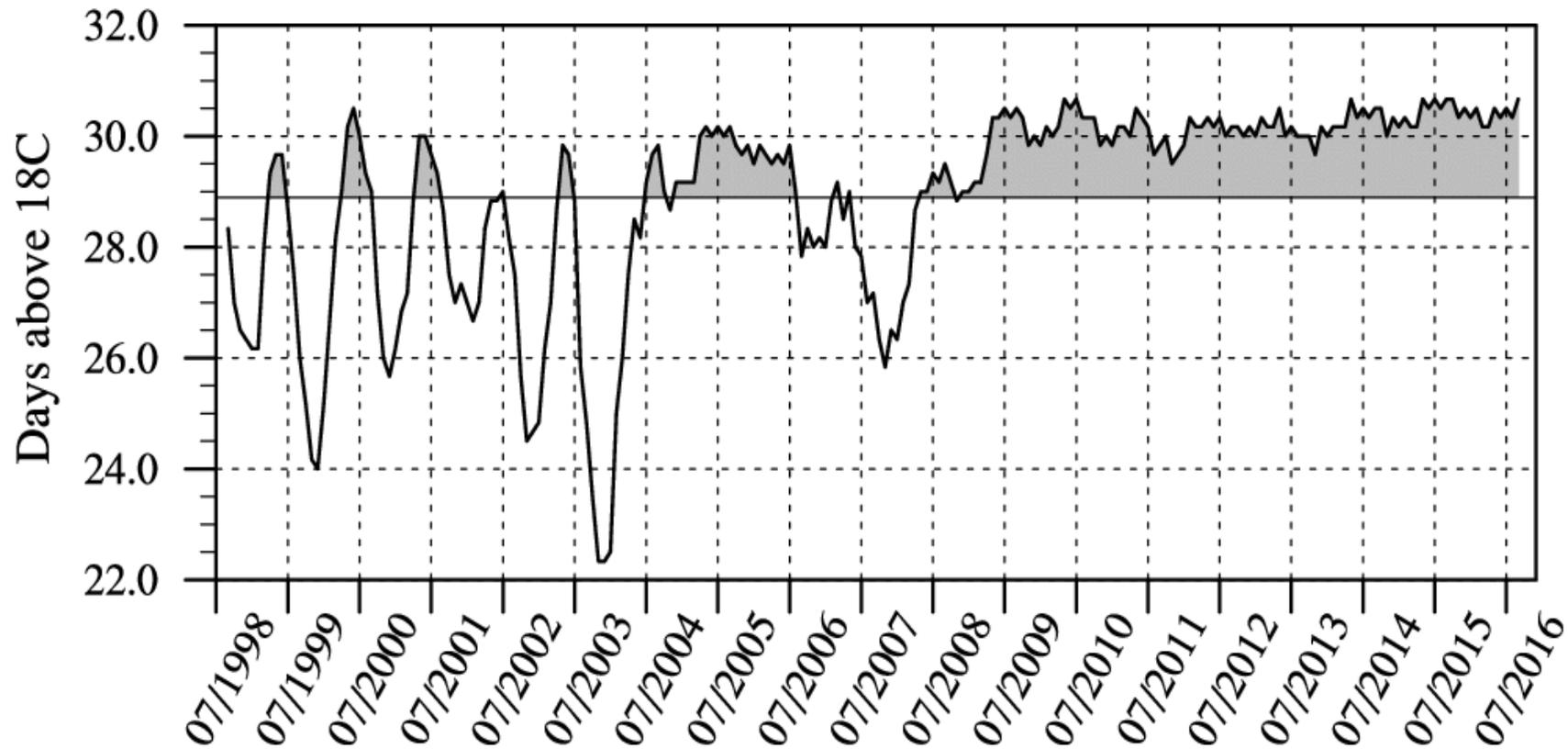


Médecins Sans Frontières (MSF)

- MSF approached ICTP and U.Liverpool with a problem.
 - In Eastern DR Congo highlands they have seen drastically rising levels of malaria since 2015
 - They wanted to understand what might be causing this (climate, migration, conflict, health systems breakdown) and if it might be a temporary
- The uncalibrated VECTRI (ICTP) and LMM (Liverpool) models were set up to run with identical climate forcing (ERA-Interim+TRMM) to simulate malaria in the region

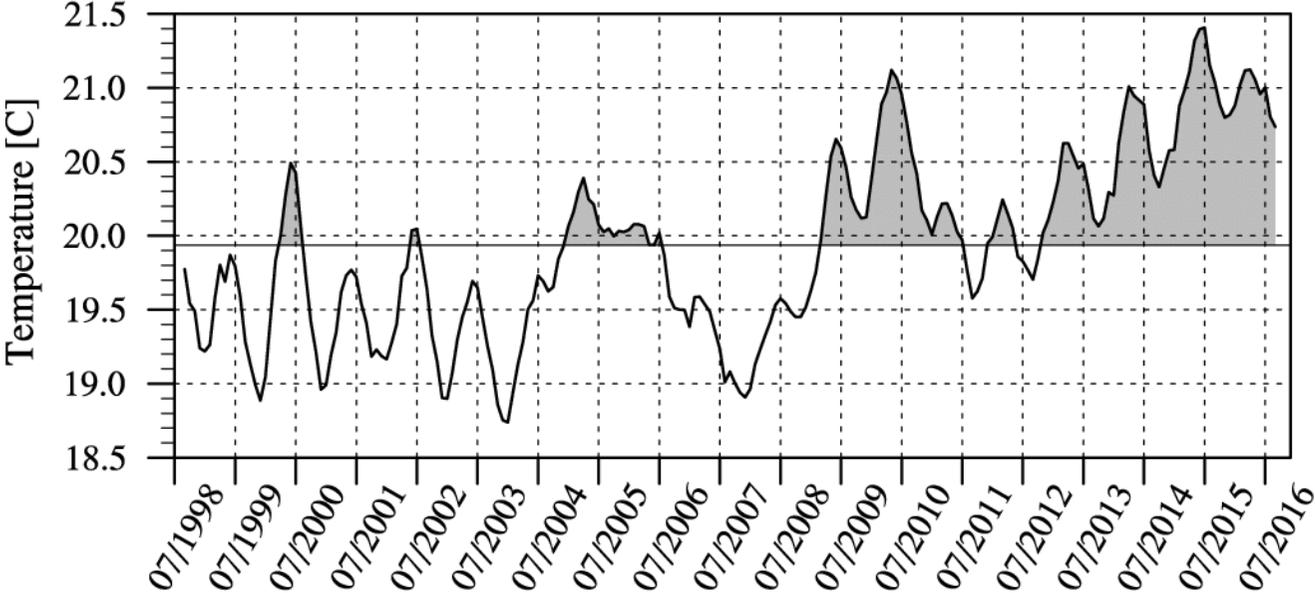


Where is this from ?



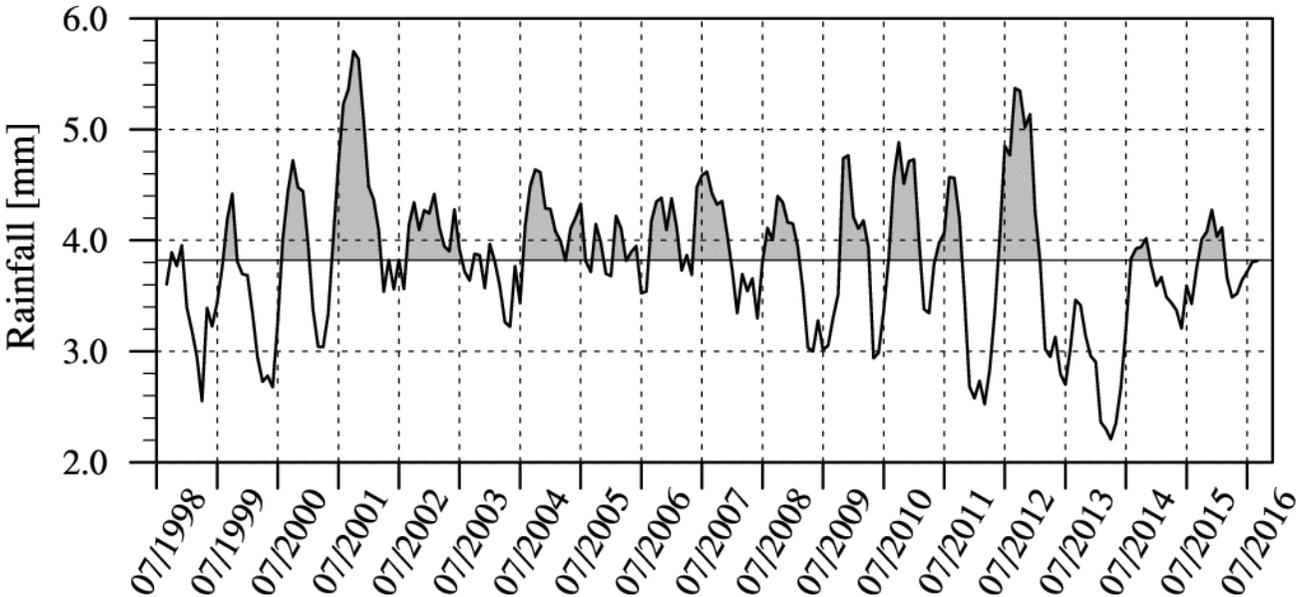
Days above 18°C (theoretical minimum temperature threshold for the parasite to replicate inside the mosquito vector) for the same location. The shaded area depicts values above the average. 6 months running average was applied to the data.

Climate (6 month running averages)



ERA-Interim

ENSO events clear on top of recent warming trend



TRMM Rainfall [mm/day]

Recent period drier relative to 18 year period