## configurationV3.R (overarching variables) Prevalence & prep\_regions excretion data prevalence.R Livestock prep livestock geowiki data geowiki.R Country 30 min grid prep\_countries.R & map livestock data Manure calling\_diffuse prep\_manure management emission.R management.R & storage data manure\_ diffuse storage.R **EU WATCH** emissions.R prep\_airT.R temperature data **VIC** diffuse oocyst runoff & emissions prep\_runoff.R & (surface) runoff discharge prep surface runoff.R data calling\_ diffuse\_ concen Point sources runoff.R human configcrypto humans.R trations.R data: sanitation. diffuse & Crypto\_final\_humans.R HDI, population, etc. diffuse prep\_country2010.R oocyst point prep\_pop5minsummingtocountry2000.R stream oocyst prep\_country&HDI2000\_5min.R input stream prep\_country&HDI2000.R input VIC flow flow - accumulation direction prep\_flowdirection.R (in ArcGIS) grid flow routing.R direction VIC prep discharge.R & discharge discharge 4 prep river length.R & river length data river\_geometry.R **RBM** model prep\_waterTRBMmodel.R water temperature river depth & Oocyst loads & residence time Global NEWS concentrations prep\_DOC.R DOC data DOC concentration survival\_instream.R **EU WATCH** shortwave prep\_WATCHforcingdata.R radiation data concentration plots.R King et al. 2008 prep\_solardecay.R validation.R experimental data QMRA cryptosporidium model.R