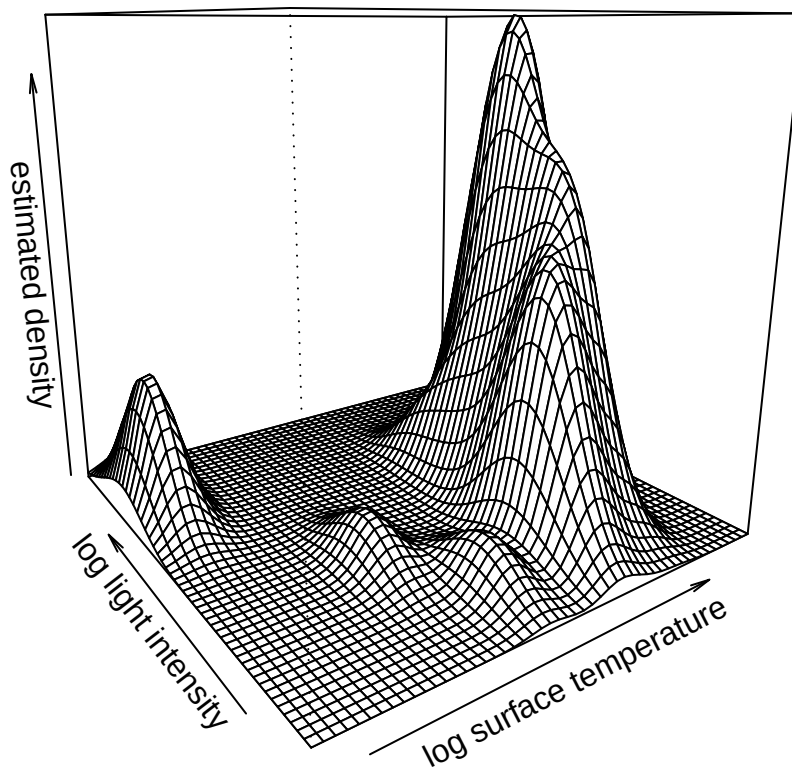
estimated density
log light intensity
log surface temperature