**1.**

1. **Compare bioekodyn.m and optfkt.m objective function values and explain the difference.**
2. **What happens to the difference when parameters change? Study the increase of the initial value of the resource (>20) and another parameter of your choice.**
3. **Illustrate optimal stock x(t), optimal effort E(t), optimal harvest h(t) and optimal profits P(t), draw a figure as a function of time.**

**2.** **Formulate two-species bioeconomic model. For example in bioekonomia.m or bioekonomiaopt.m files denote species y parameters S (growth) and L (carrying capacity), assume that species are independent of each other and that safe effort targets both species. Compute harvests for both species and total profit.**