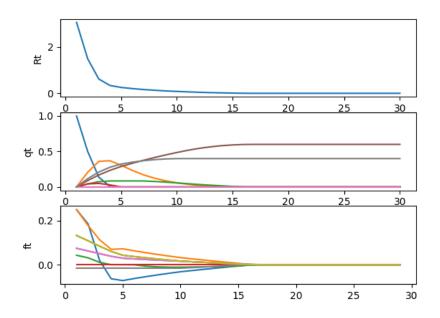
CO CHW3 99105129

Armin Navardi July 2023

1 1

total risk: 6.589671916256949

evacuation time: 17



2 2

find
$$\theta$$
subject to
$$\sum_{j=1}^{k} \theta_{j} \log P^{(j)} \leq \log P_{\text{spec}}$$

$$\sum_{j=1}^{k} \theta_{j} \log D^{(j)} \leq \log D_{\text{spec}}$$

$$\sum_{j=1}^{k} \theta_{j} \log A^{(j)} \leq \log A_{\text{spec}}$$

$$\mathbf{1}^{T} \theta = 1, \quad \theta \succeq 0,$$

w:

 $3.28069166\ 2.96934036\ 3.26617754\ 2.32426888\ 3.66532996\ 2.92976112\ 3.68571815\ 3.8940303\ 3.3972013$

 θ :

 $0.49673786\ 0.00452331\ 0.47531367\ 0.00408995\ 0.00174836$

3 5

$$maximize: \mu^T w - \sum_{1}^{M} \gamma_k w^T \Sigma^k w$$
$$s.t.: 1^T w = 1$$

weights =

 $\begin{array}{c} 0.66426997 - 0.11469037 \ 1.38055509 \ 1.42422852 - 1.5270649 - 0.61401545 - 0.49879081 \\ -0.25406876 \ 0.11483851 \end{array}$