# Gauss Programs Used – Working Document

## For Quantitative Economics – final submission

* RV-DCC time-varying estimates in Table 5 and portfolio shares in Table 7 are generated using mgarch\_subsample.g (gamma = 3.5, mu\_3 = 0.4\*s\_m, s\_1=0.65x1290, s\_2=0.75x0.217)
* Constant covariance risk model estimates in Table 5 and portfolio shares in Table 7 are generated using mgarch\_subsample\_constantCOV.g (gamma = 3.5, mu\_3 = 0.4\*s\_m, s\_1=0.65x1290, s\_2=0.75x0.217)
* Table 9 was generated using simulation\_subsample\_modeluncertainty.g (using parameterization gamma = 3.5, mu\_3 = 0.4\*s\_m, s\_1=0.65x1290, s\_2=0.75x0.217)
* Table 10 was generated using toggle function in simulation\_subsample\_modeluncertainty.g (using parameterization gamma = 3.5, mu\_3 = 0.5\*s\_m, s\_1=0.50x1290, s\_2=0.60x0.217) (toggle not included in program shared with QE)
* The portfolios shares based on time-varying risk and constant risk reported in Table 11 are generated using simulation\_subsample\_climatedata.g (using parameterization gamma = 3.5, mu\_3 = 0.4\*s\_m, s\_1=0.65x1290, s\_2=0.75x0.217)
* Table 12 was generated using simulation\_subsample.g

## Data Sets

The Gauss codes above call upon the following datasets:

* precip\_runoff\_observed.xlsx
* Projected Inflows Melbourne Catchments\_fixed values.xlsx
* Projected Precipitation Melbourne Area\_fixed values.xlsx
* rain\_086117\_daily.xlsx
* rain\_086131\_daily.xlsx
* rain\_087034\_daily.xlsx
* rain\_087043\_daily.xlsx
* rain\_087053\_daily.xlsx
* rain\_088060\_daily.xlsx