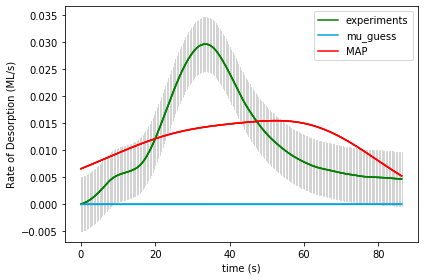
Name of Runfile: runfile\_Example19a\_CPE\_grid 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |

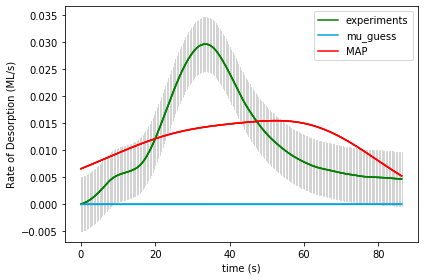


UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]  
Final map results from gridsearch: (1.1, 0.0, 0.16666666666666669, 21.5, 21.5, 11.0, 13.0, 0.2, 0.1) final logP: -1693.9700904725842

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[1,1,3,3,3,3,3,1,1]

Name of Runfile: runfile\_Example19a\_BPE\_grid 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |

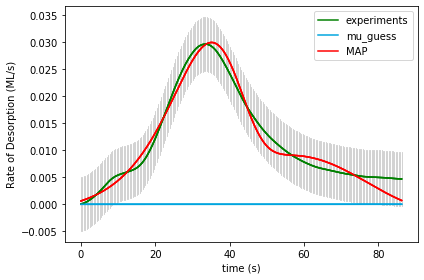


UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: (1.1, 0.0, 0.16666666666666669, 21.5, 21.5, 11.0, 13.0, 0.2, 0.1) final logP: -1707.7405372192723gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[1,1,3,3,3,3,3,1,1]

Name of Runfile: runfile\_Example19a\_CPE\_grid\_opt 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [1.17855879e+00 1.56599493e-03 4.89378831e-01 5.01380589e+01

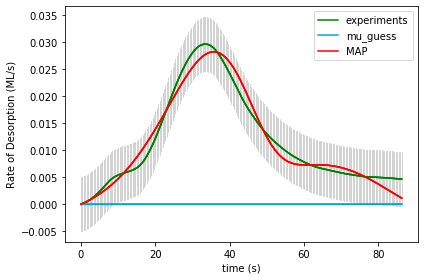
2.47742710e+01 3.31859754e+01 1.33279804e+01 1.37736928e-02

1.18045551e-01] final logP: 698.5893003020717

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]

Name of Runfile: runfile\_Example19a\_BPE\_grid\_opt 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [1.31490688e+00 2.42812476e-03 3.94914061e-01 4.04733411e+01

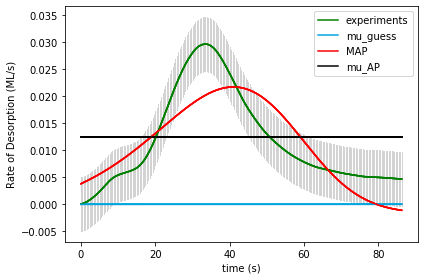
2.83349021e+01 2.60903516e+01 1.53898803e+01 6.21559490e-02

1.17508227e-01] final logP: 655.8701616424628

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]

Name of Runfile: 19a\_CPE\_grid\_mcmc 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [1.11903275e+00 1.42841706e-03 4.24304405e-01 2.56838078e+01

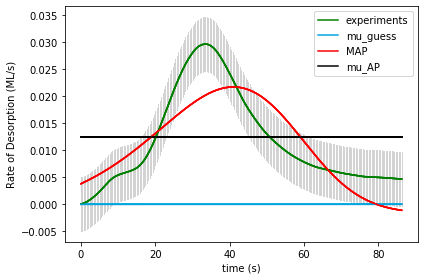
2.37503902e+01 1.49342760e+01 1.30921583e+01 1.25084700e-01

1.39916679e-01] final logP: [100.50473885]

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]

Name of Runfile: 19a\_BPE\_grid\_mcmc 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  |  |  |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [1.11903275e+00 1.42841706e-03 4.24304405e-01 2.56838078e+01

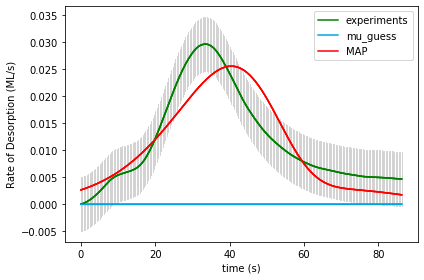
2.37503902e+01 1.49342760e+01 1.30921583e+01 1.25084700e-01

1.39916679e-01] final logP: [89.09553857]

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]

Name of Runfile: runfile\_Example19a\_CPE\_grid\_fine 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |



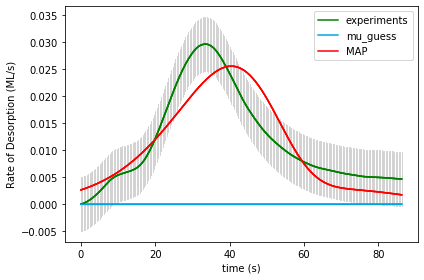
UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: (1.0, 0.0, 0.16666666666666669, 35.5, 23.5, 22.0, 12.0, 0.1, 0.1) final logP: 428.48021937045627

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20/10, 20/10, 1, 1, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,3,10,10,10,10,0,0]

Name of Runfile: runfile\_Example19a\_BPE\_grid\_fine 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: (1.0, 0.0, 0.16666666666666669, 35.5, 23.5, 22.0, 12.0, 0.1, 0.1) final logP: 406.5097726237683

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20/10, 20/10, 1, 1, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,3,10,10,10,10,0,0]

Name of Runfile: 20a\_CPE\_grid 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  |  |  |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: (1.1, 0.0, 0.8333333333333333, 21.5, 21.5, 13.0, 11.0, 0.1, 0.2) final logP: -9054.061365650756 Final map results from gridsearch: (1.1, 0.0, 0.8333333333333333, 21.5, 21.5, 13.0, 11.0, 0.1, 0.2) final logP: -9054.061365650756

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[1,1,3,3,3,3,3,1,1]

Name of Runfile: 20a\_BPE\_grid 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  |  |  |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: (1.1, 0.0, 0.8333333333333333, 21.5, 21.5, 13.0, 11.0, 0.1, 0.2) final logP: -9067.831812397444

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[1,1,3,3,3,3,3,1,1]

Name of Runfile: 20a\_CPE\_grid\_mcmc 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  |  |  |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [ 1.02795809e+00 -1.47194475e-03 2.06950152e-01 3.01093572e+01

4.79243481e+01 1.79804764e+01 1.24238115e+01 1.37345490e-01

1.94422092e-01] final logP: [-2177.48537425]

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]

Name of Runfile: 20a\_BPE\_grid\_mcmc 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  |  |  |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [ 1.02795809e+00 -1.47194475e-03 2.06950152e-01 3.01093572e+01

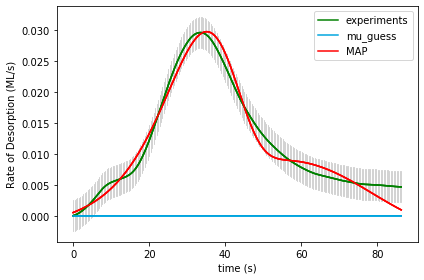
4.79243481e+01 1.79804764e+01 1.24238115e+01 1.37345490e-01

1.94422092e-01] final logP: [-2192.25547096]

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]

Name of Runfile: 20a\_CPE\_grid\_opt 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  |  |  |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [1.31850027e+00 2.39650171e-03 5.76140992e-01 5.48880289e+01

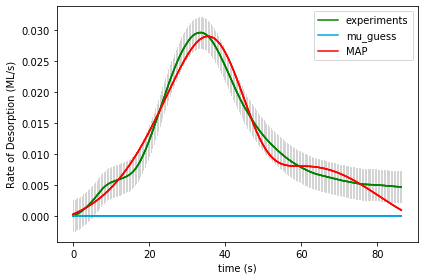
1.94775168e+01 3.63448101e+01 9.70069391e+00 4.86434241e-01

8.92942906e-04] final logP: 834.3528120580175

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]

Name of Runfile: 20a\_BPE\_grid\_opt 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  |  |  |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: [1.24054728e+00 1.97315172e-03 5.70160486e-01 2.68941949e+01

4.42378634e+01 1.45793537e+01 2.88717211e+01 7.62517142e-02

3.18229310e-03] final logP: 779.9344100773503

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20, 20, 2, 2, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,1,1,1,1,1,0,0]Name of Runfile: runfile\_Example20a\_CPE\_grid\_fine 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |



UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: (1.0, 0.0, 0.8333333333333333, 23.5, 35.5, 12.0, 22.0, 0.1, 0.1) final logP: -203.37919742701536

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20/10, 20/10, 1, 1, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,3,10,10,10,10,0,0]

Name of Runfile: runfile\_Example20a\_BPE\_grid\_fine 1361367 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1.0 | 0.10 |  |  |  |
| Offset | 0.0 | 0.005 |  |  |  |
| Site2Ratio | 0.50 | 0.50/3 |  |  |  |
| Ea\_1 | 41.5 | 20 |  |  |  |
| Ea\_2 | 41.5 | 20 |  |  |  |
| log\_A1 | 13.0 | 2 |  |  |  |
| log\_A2 | 13.0 | 2 |  |  |  |
| gamma1 | 0.1 | 0.1 |  |  |  |
| gamma2 | 0.1 | 0.1 |  |  |  |
| logP |  | N/A |  | N/A | N/A |



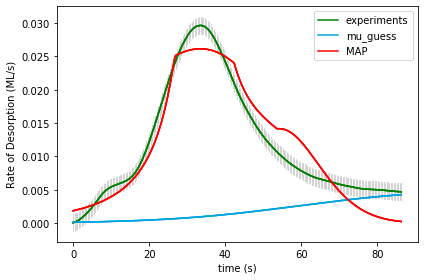
UserInput.model['InputParameterPriorValues'] = [ 1.0, 0.0, 0.50, 41.5, 41.5, 13.0, 13.0, 0.1, 0.1]

Final map results from gridsearch: (1.0, 0.0, 0.8333333333333333, 23.5, 35.5, 12.0, 22.0, 0.1, 0.1) final logP: -225.34964417370335

gridSamplingAbsoluteIntervalSize=[ 0.10, 0.005, 0.50/3, 20/10, 20/10, 1, 1, 0.1, 0.1], gridSamplingNumOfIntervals=[0,0,3,10,10,10,10,0,0]

Name of Runfile: 21a\_CPE\_grid 59535 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: (1.0, 0.0, 20.0, 11.0, -0.3, 0.3, -0.1, 0.1, 0.0, 0.0, -0.1) final logP: -1527.5171602395776

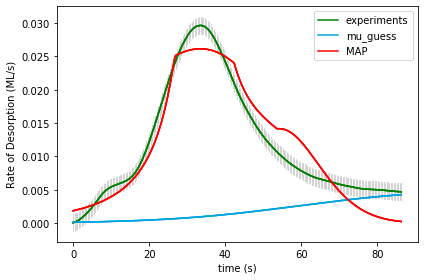
gridSamplingAbsoluteIntervalSize= [.1, 0.005, 20, 2, 0.3,

0.1, 0.1, 0.1, 0.1, 0.1, 0.1]

gridSamplingNumOfIntervals=[0,0,3,3,2, 0,1,1,1,1,1]

Name of Runfile: 21a\_BPE\_grid 59535 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: (1.0, 0.0, 20.0, 11.0, -0.3, 0.3, -0.1, 0.1, 0.0, 0.0, -0.1) final logP: -1527.5828666259995

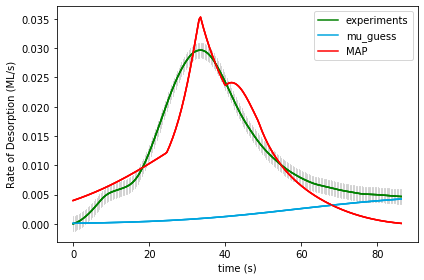
gridSamplingAbsoluteIntervalSize= [.1, 0.005, 20, 2, 0.3,

0.1, 0.1, 0.1, 0.1, 0.1, 0.1]

gridSamplingNumOfIntervals=[0,0,3,3,2, 0,1,1,1,1,1]

Name of Runfile: 21a\_CPE\_grid\_opt 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: [ 9.72403839e-01 2.45807149e-04 2.16720262e+01 1.17139968e+01

-2.39634576e-05 2.00249952e-01 6.62735737e-05 -1.06494051e-01

2.17505358e-05 -1.00161392e-01 1.44611048e-04] final logP: -3653.765327218868

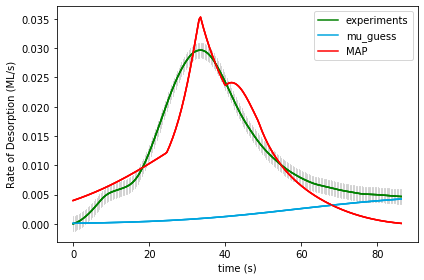
gridSamplingAbsoluteIntervalSize= [.1, 0.005, 20, 2, 0.3,

0.1, 0.1, 0.1, 0.1, 0.1, 0.1]

gridSamplingNumOfIntervals=[0,0,1,1,0, 1,0,1,0,1,0]

Name of Runfile: 21a\_BPE\_grid\_opt 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: [ 9.72403839e-01 2.45807149e-04 2.16720262e+01 1.17139968e+01

-2.39634576e-05 2.00249952e-01 6.62735737e-05 -1.06494051e-01

2.17505358e-05 -1.00161392e-01 1.44611048e-04] final logP: -3649.737299338728

gridSamplingAbsoluteIntervalSize= [.1, 0.005, 20, 2, 0.3,

0.1, 0.1, 0.1, 0.1, 0.1, 0.1]

gridSamplingNumOfIntervals=[0,0,1,1,0, 1,0,1,0,1,0]

Name of Runfile: 21a\_CPE\_grid\_mcmc 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: [ 1.09118167e+00 5.06351739e-04 1.82224641e+01 9.09312805e+00

-2.73876168e-01 3.92896709e-01 -5.89138698e-02 1.57091955e-02

5.75251210e-02 -8.98549984e-02 -1.02258301e-01] final logP: [-282.54585778]

gridSamplingAbsoluteIntervalSize= [.1, 0.005, 20, 2, 0.3,

0.1, 0.1, 0.1, 0.1, 0.1, 0.1]

gridSamplingNumOfIntervals=[0,0,1,1,0, 1,0,1,0,1,0]

Name of Runfile: 21a\_BPE\_grid\_mcmc 243 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: [ 1.09118167e+00 5.06351739e-04 1.82224641e+01 9.09312805e+00

-2.73876168e-01 3.92896709e-01 -5.89138698e-02 1.57091955e-02

5.75251210e-02 -8.98549984e-02 -1.02258301e-01] final logP: [-287.41712814]

gridSamplingAbsoluteIntervalSize= [.1, 0.005, 20, 2, 0.3,

0.1, 0.1, 0.1, 0.1, 0.1, 0.1]

gridSamplingNumOfIntervals=[0,0,1,1,0, 1,0,1,0,1,0]

Name of Runfile: 21a\_CPE\_grid\_fine 68921 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: (1.0, 0.0, 35.0, 21.5, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0) final logP: -1170.3915981999953

(1.0, 0.0, 35.0, 21.5, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0) -1170.3915981999953

gridSamplingAbsoluteIntervalSize=[0,0,1.0,0.5,0.05, 0,0,0,0,0,0], gridSamplingNumOfIntervals=[0,0,20,20,20, 0,0,0,0,0,0]

Name of Runfile: 21a\_BPE\_grid\_fine 68921 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 20 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: (1.0, 0.0, 35.0, 21.5, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0) final logP: -1171.686471253084

gridSamplingAbsoluteIntervalSize=[0,0,1.0,0.5,0.05, 0,0,0,0,0,0], gridSamplingNumOfIntervals=[0,0,20,20,20, 0,0,0,0,0,0]

Name of Runfile: 21a\_CPE\_grid\_fine\_10kJ 68921 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 10 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: (1.0, 0.0, 35.0, 21.5, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0) final logP: -1170.3915981999953

gridSamplingAbsoluteIntervalSize=[0,0,1.0,0.5,0.05, 0,0,0,0,0,0], gridSamplingNumOfIntervals=[0,0,20,20,20, 0,0,0,0,0,0]

Name of Runfile: 21a\_BPE\_grid\_fine\_10kJ 68921 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter Name | Initial Value | Uncertainty | Final Value | Interval Size | Num Intervals |
| Scaling | 1 | .1 |  |  |  |
| Offset | 0 | .005 |  |  |  |
| Ea\_1 | 40 | 10 |  |  |  |
| Log\_A1 | 13 | 2 |  |  |  |
| gamma\_1 | 0.1 | 0.3 |  |  |  |
| gamma\_mod1 | 0 | 0.1 |  |  |  |
| gamma\_mod2 | 0 | 0.1 |  |  |  |
| gamma\_mod3 | 0 | 0.1 |  |  |  |
| gamma\_mod4 | 0 | 0.1 |  |  |  |
| gamma\_mod5 | 0 | 0.1 |  |  |  |
| gamma\_mod6 | 0 | 0.1 |  |  |  |
| logP |  |  |  |  |  |



UserInput.model['InputParameterPriorValues'] = [1.0, 0.0, 40.0, 13.0, 0.1,

0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

Final map results from gridsearch: (1.0, 0.0, 35.0, 21.5, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0) final logP: -1171.087074072524

gridSamplingAbsoluteIntervalSize=[0,0,1.0,0.5,0.05, 0,0,0,0,0,0], gridSamplingNumOfIntervals=[0,0,20,20,20, 0,0,0,0,0,0]