EnKF simulation results

John Petter Jensen

Institutt for teknisk kybernetikk — NTNU 2007

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38 PERMZ for layer 7 **77**

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41 PERMZ for layer 10 **83**

1 History match plots

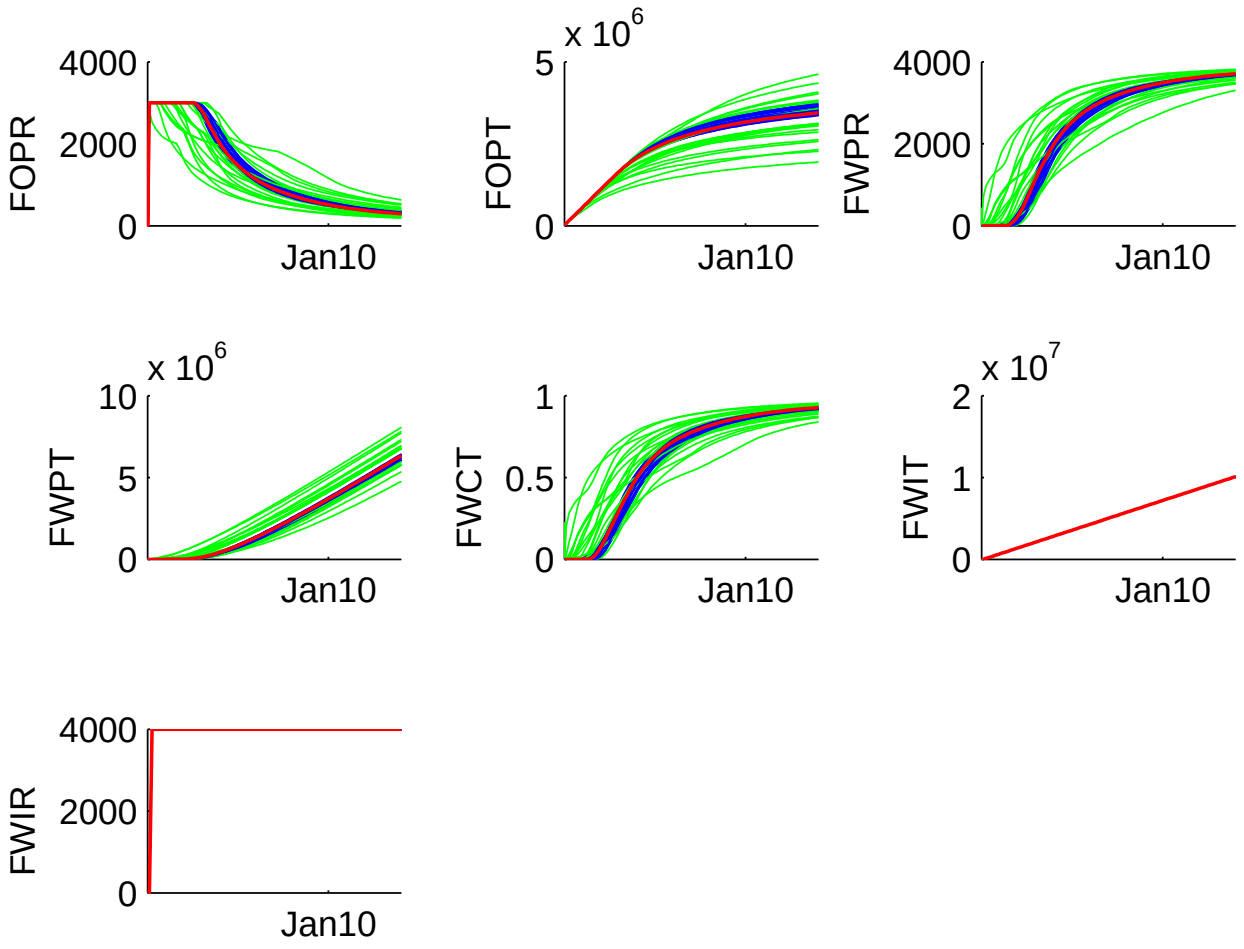

Figure 1: FIELD History Matching plots

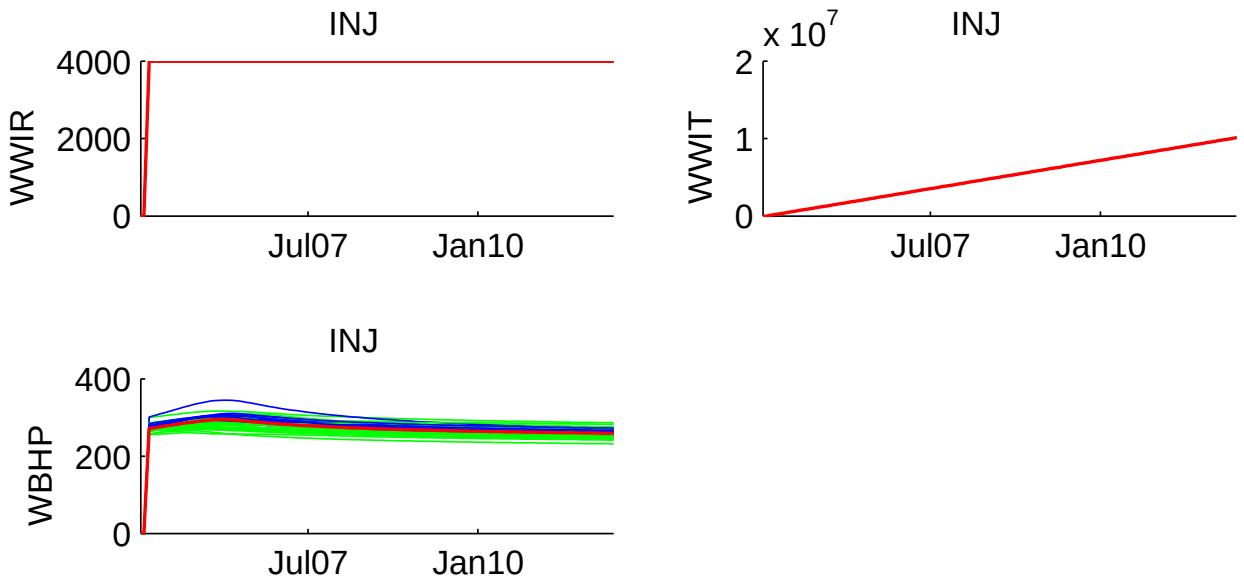

Figure 2: INJ History Matching plots

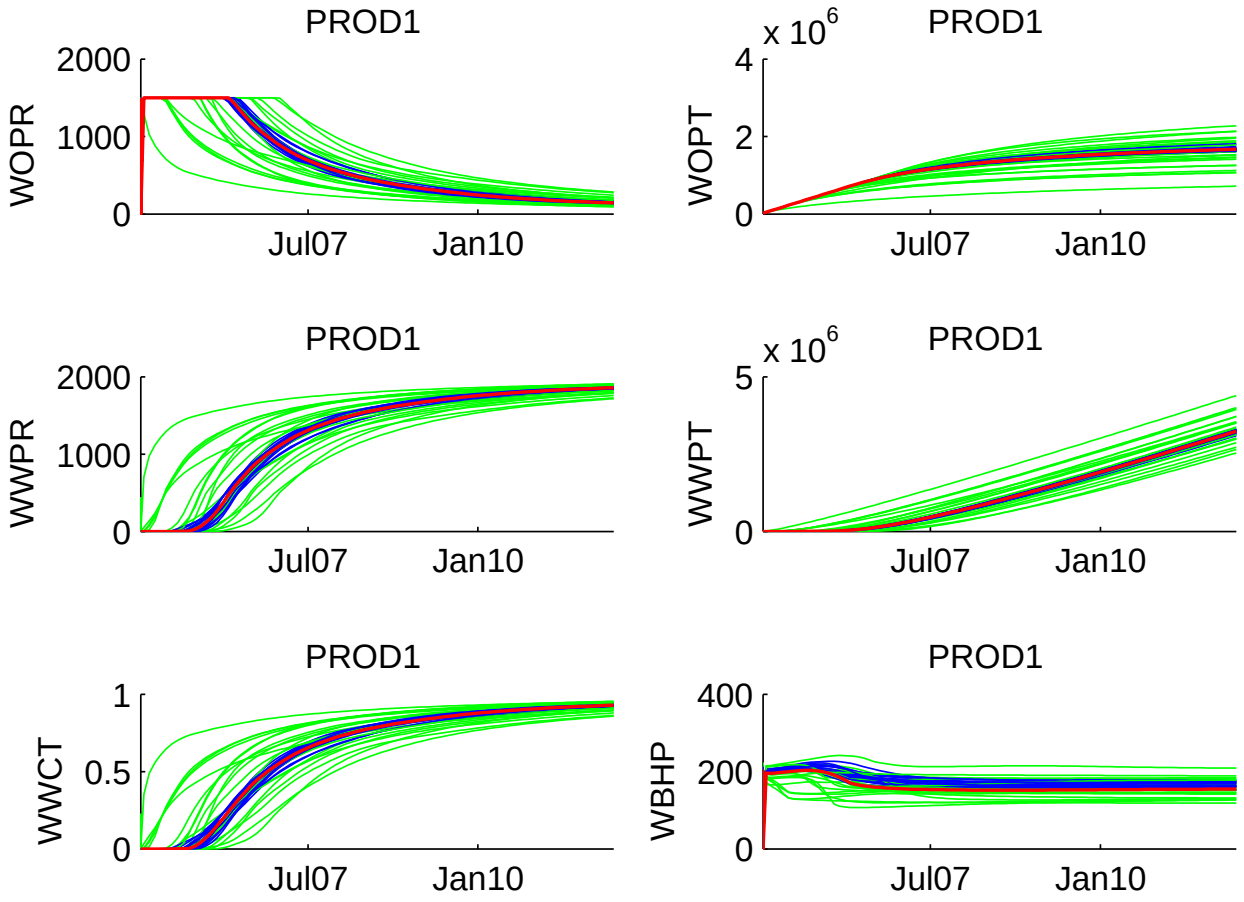

Figure 3: PROD1 History Matching plots

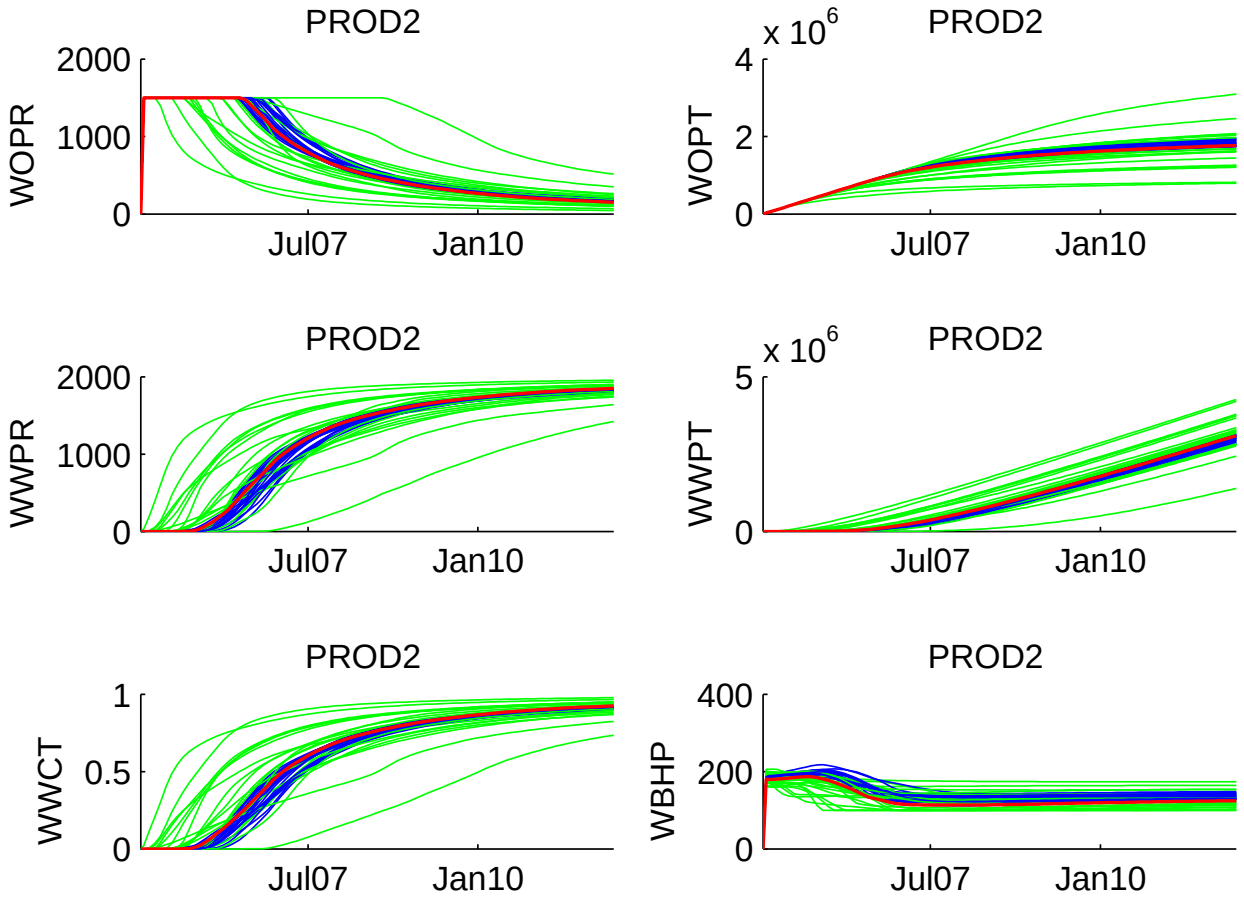

Figure 4: PROD2 History Matching plots

2 PORO for layer 1

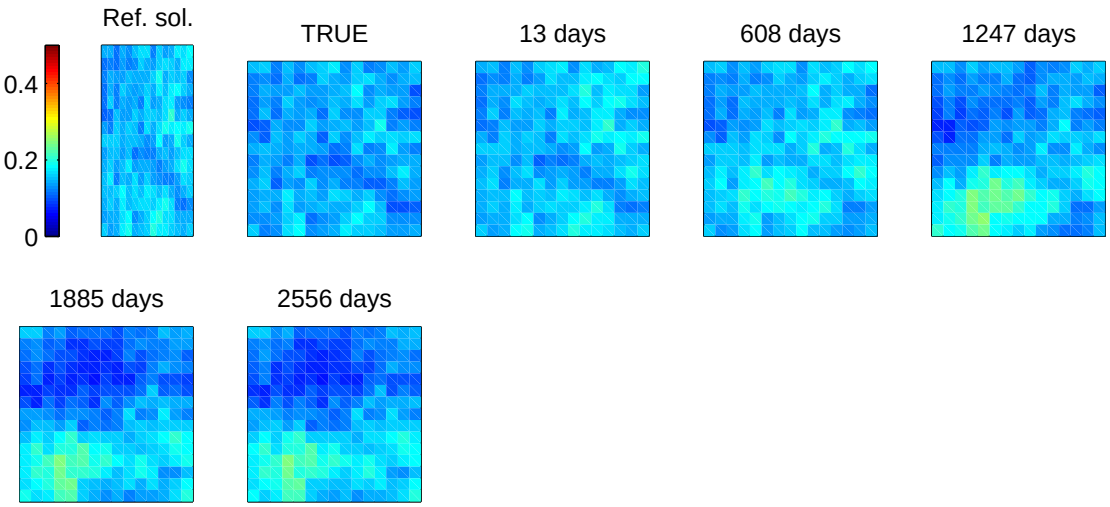

Figure 5: PORO mean value for layer 1

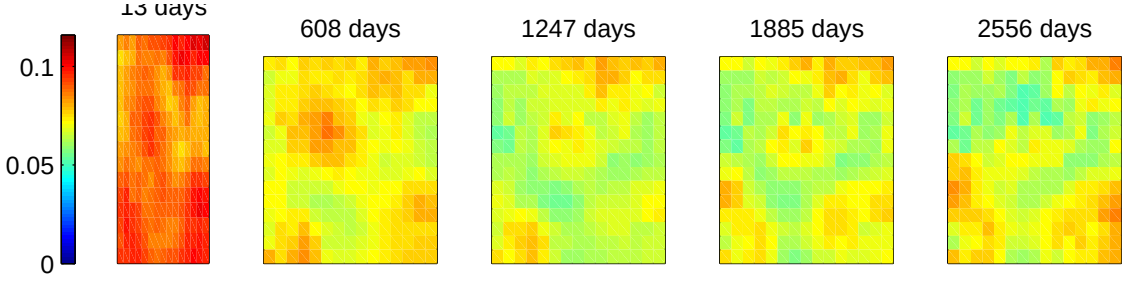

Figure 6: PORO stadard deviation for layer 1

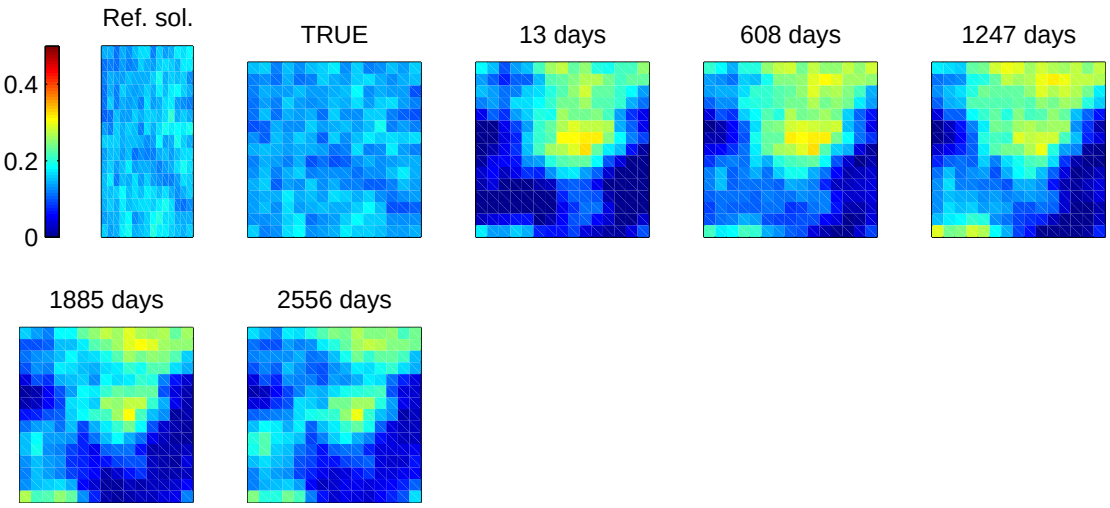

Figure 7: PORO for ensemble member 1 for layer 1

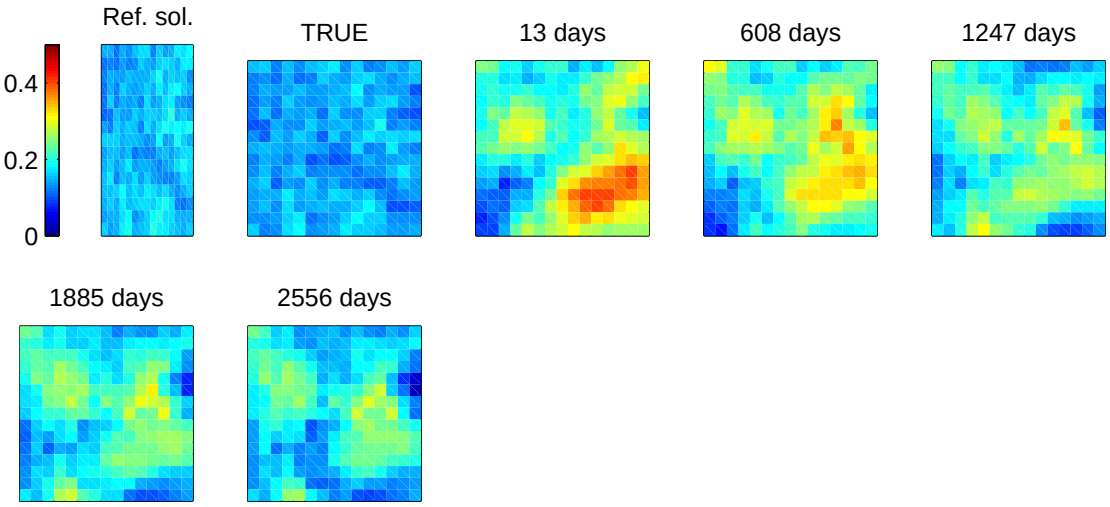

Figure 8: PORO for ensemble member 2 for layer 1

3 PORO for layer 2

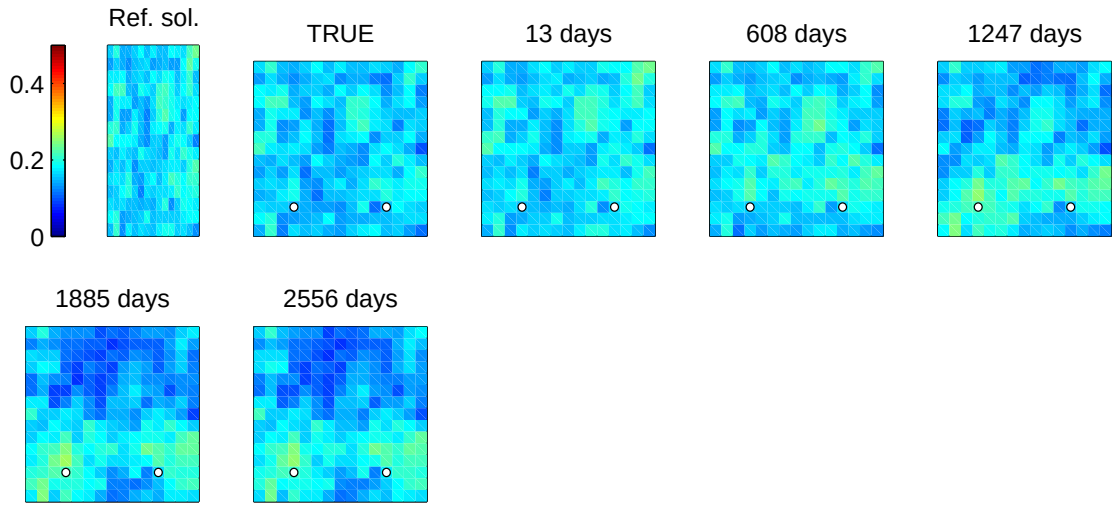

Figure 9: PORO mean value for layer 2

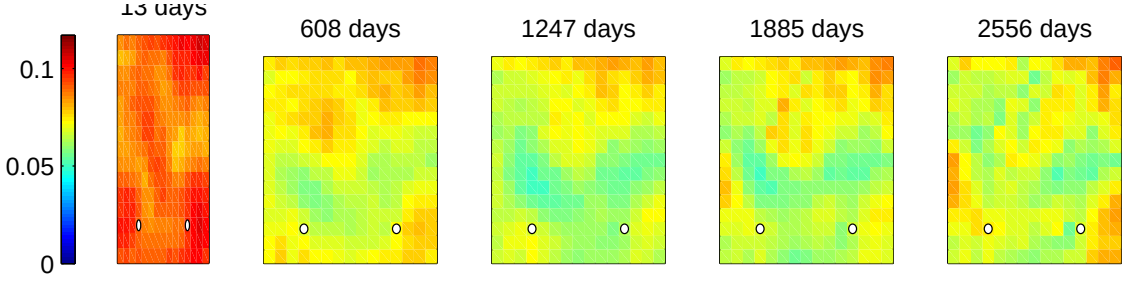

Figure 10: PORO stadard deviation for layer 2

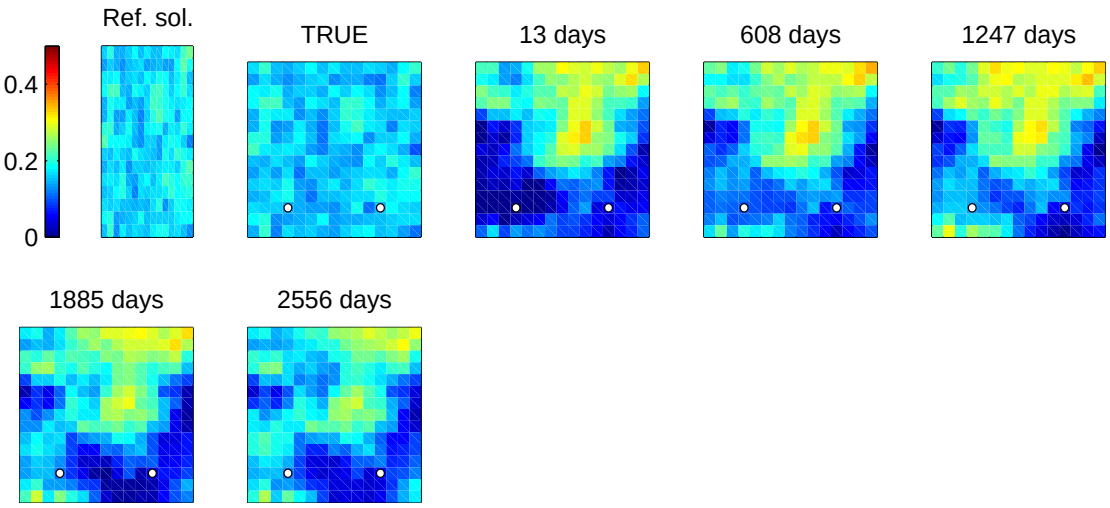

Figure 11: PORO for ensemble member 1 for layer 2

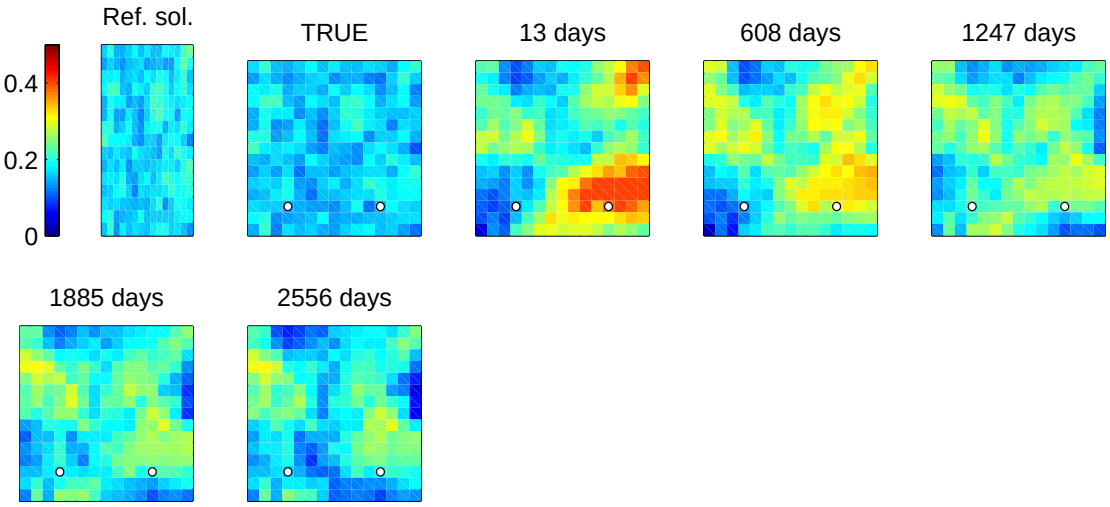

Figure 12: PORO for ensemble member 2 for layer 2

4 PORO for layer 3

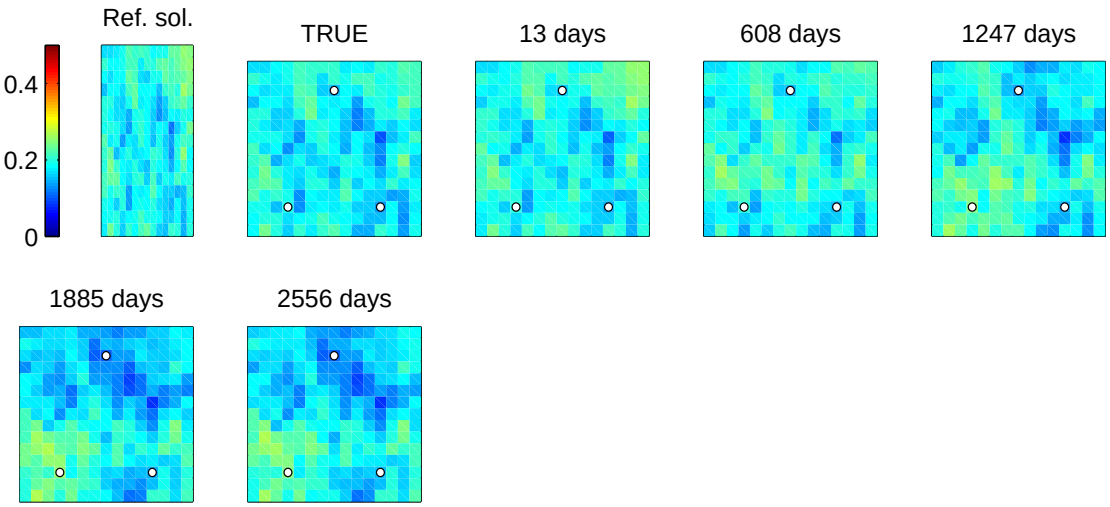

Figure 13: PORO mean value for layer 3

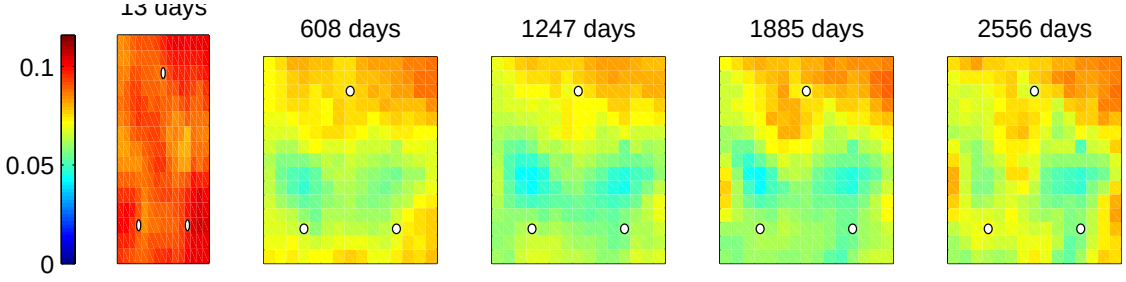

Figure 14: PORO stadard deviation for layer 3

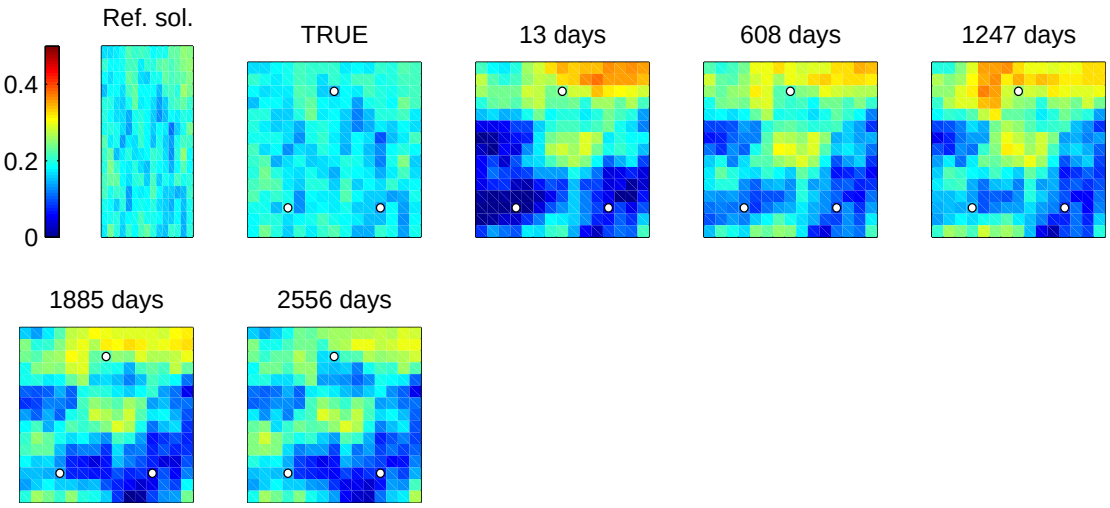

Figure 15: PORO for ensemble member 1 for layer 3

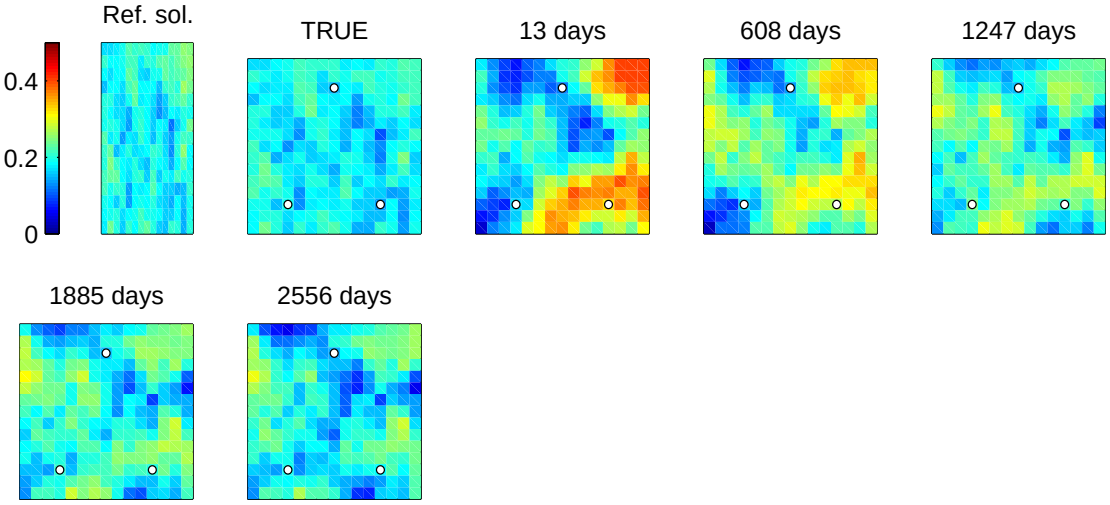

Figure 16: PORO for ensemble member 2 for layer 3

5 PORO for layer 4

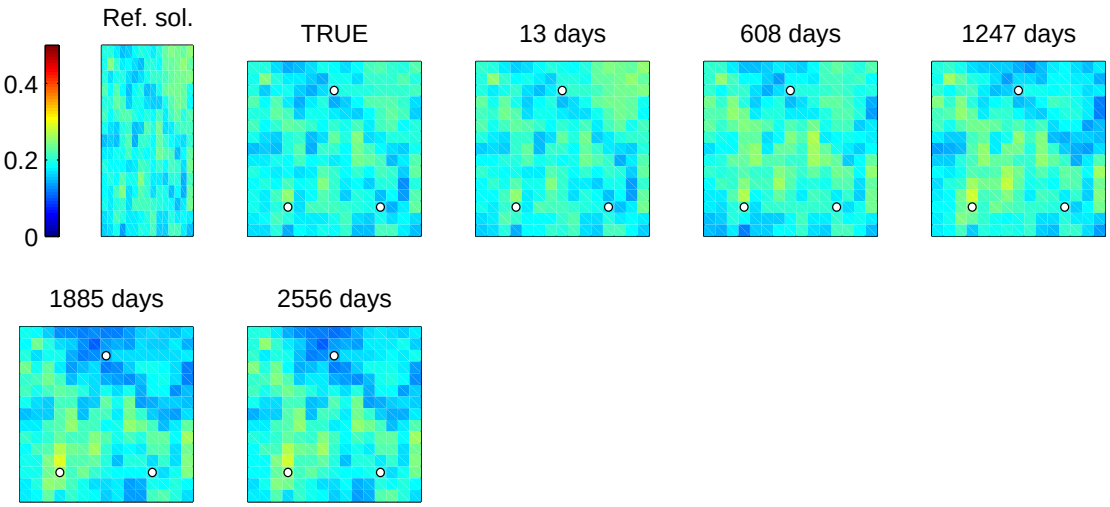

Figure 17: PORO mean value for layer 4

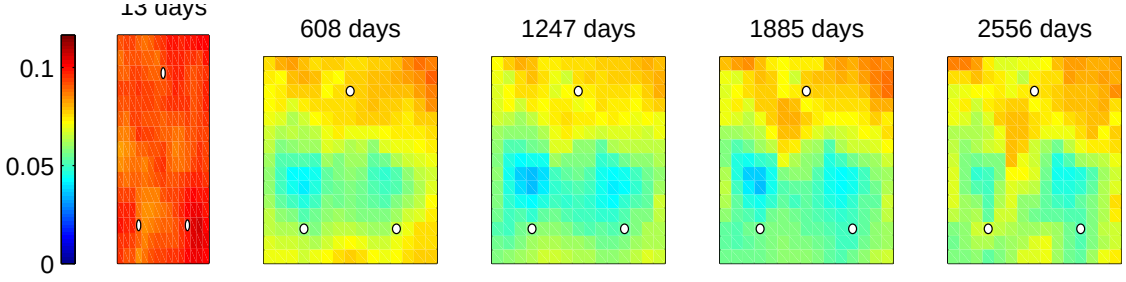

Figure 18: PORO stadard deviation for layer 4

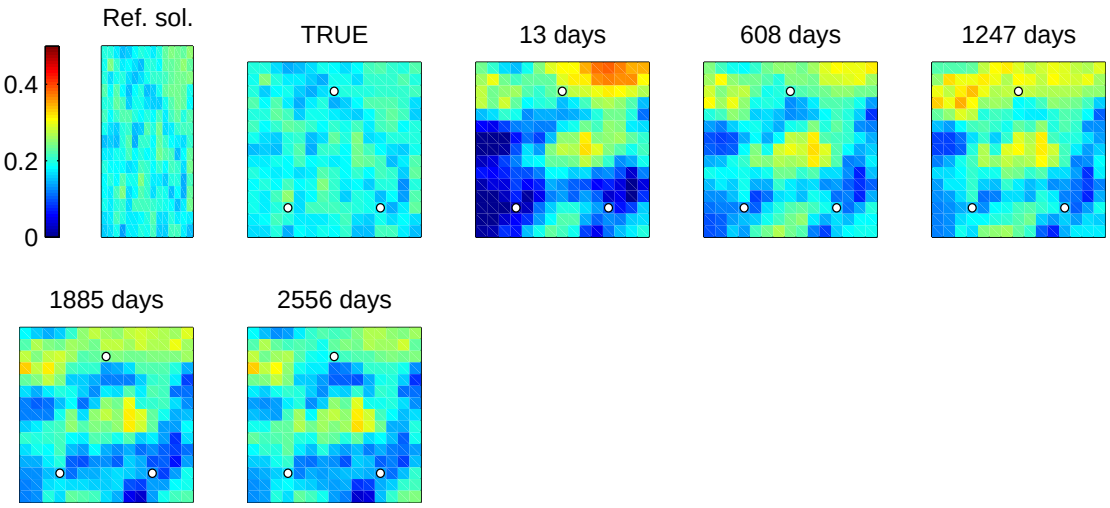

Figure 19: PORO for ensemble member 1 for layer 4

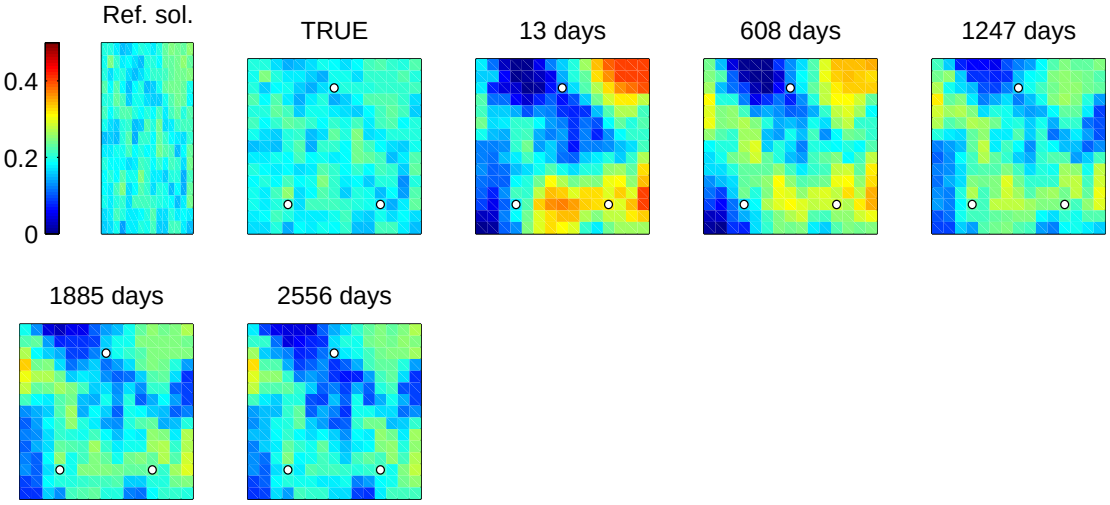

Figure 20: PORO for ensemble member 2 for layer 4

6 PORO for layer 5

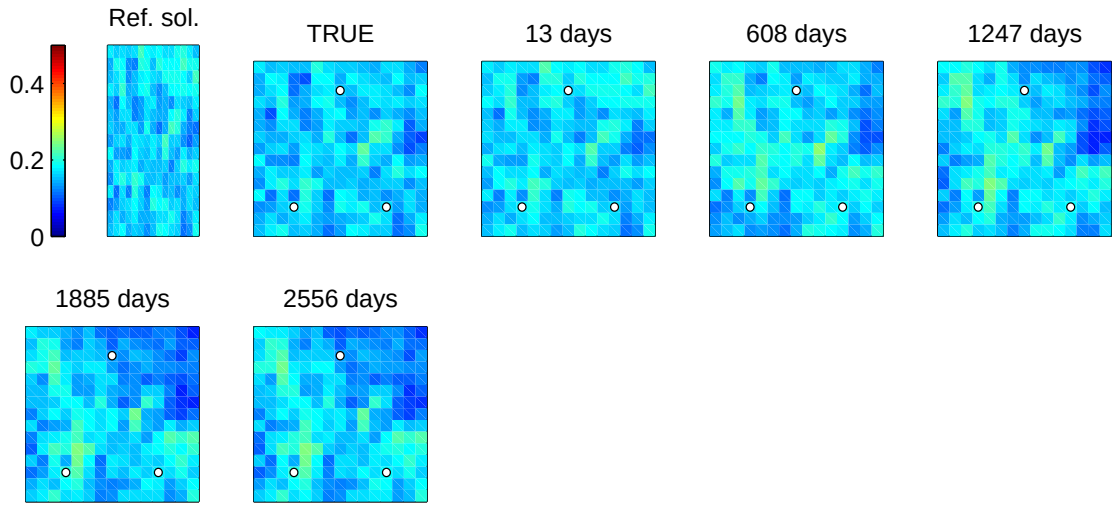

Figure 21: PORO mean value for layer 5

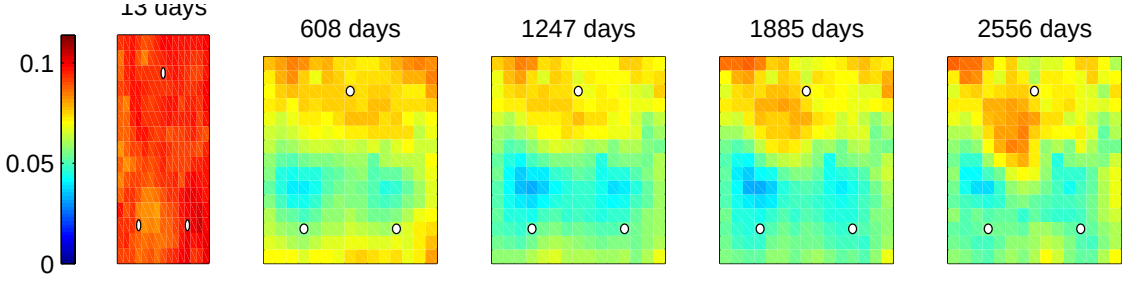

Figure 22: PORO stadard deviation for layer 5

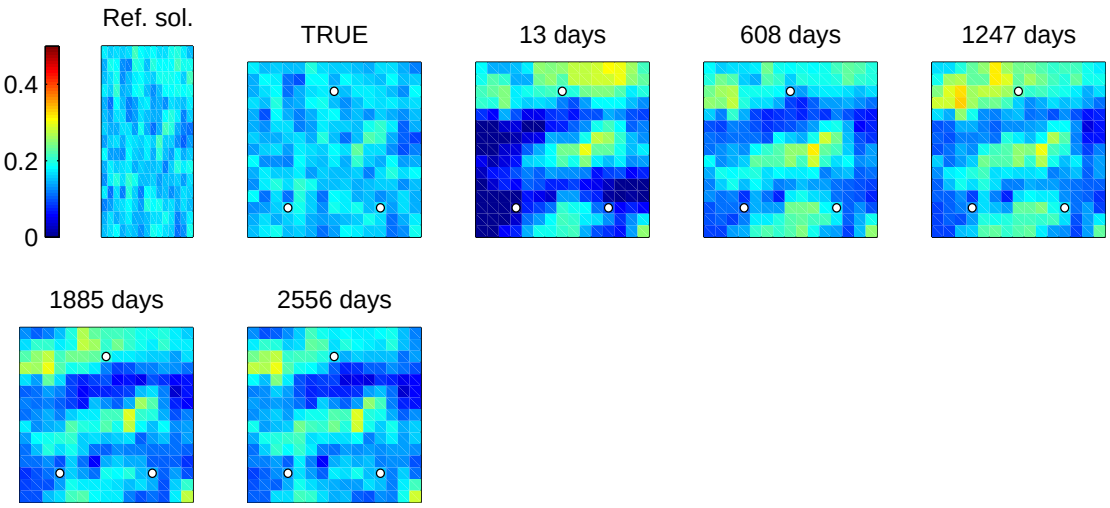

Figure 23: PORO for ensemble member 1 for layer 5

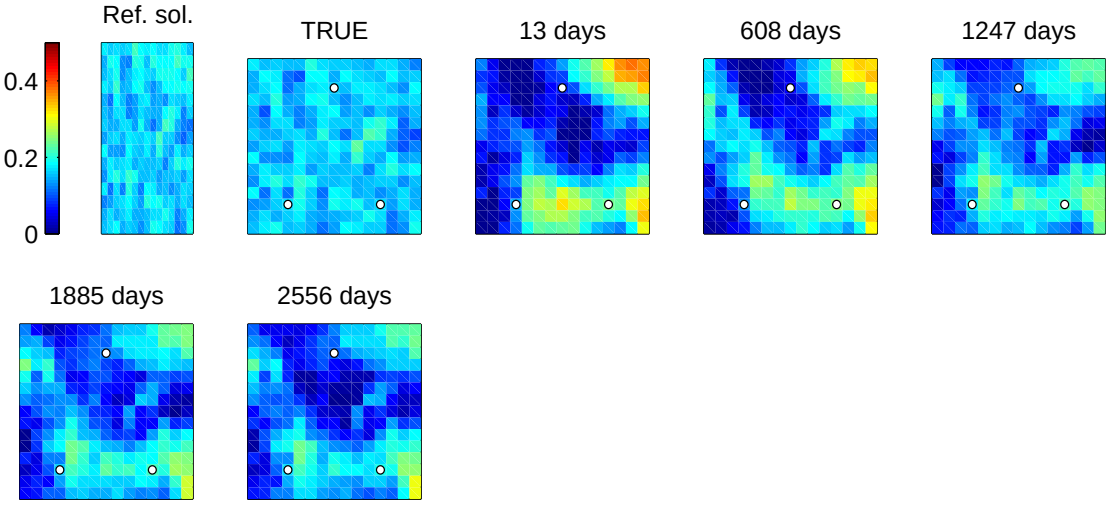

Figure 24: PORO for ensemble member 2 for layer 5

7 PORO for layer 6

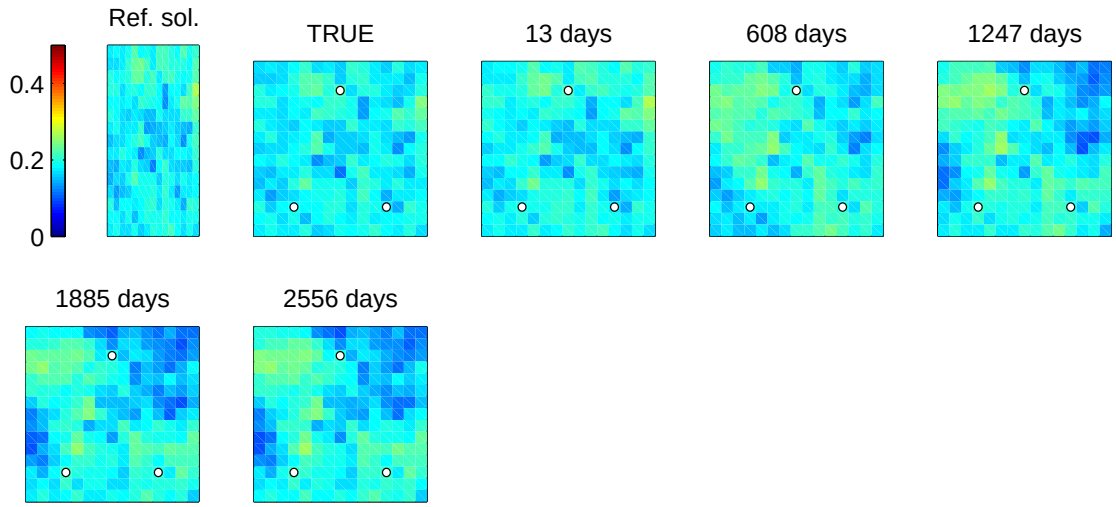

Figure 25: PORO mean value for layer 6

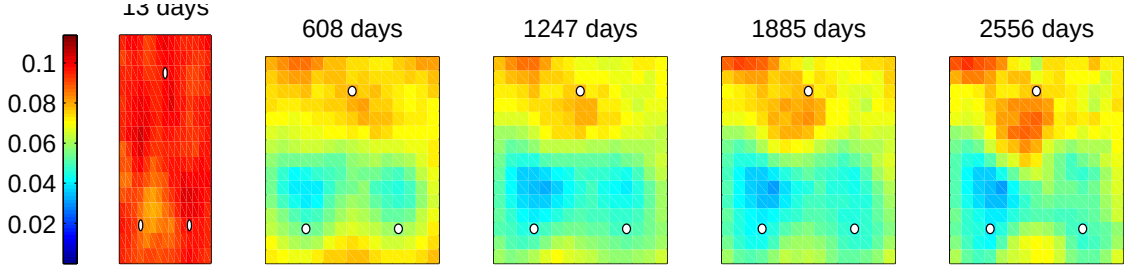

Figure 26: PORO stadard deviation for layer 6

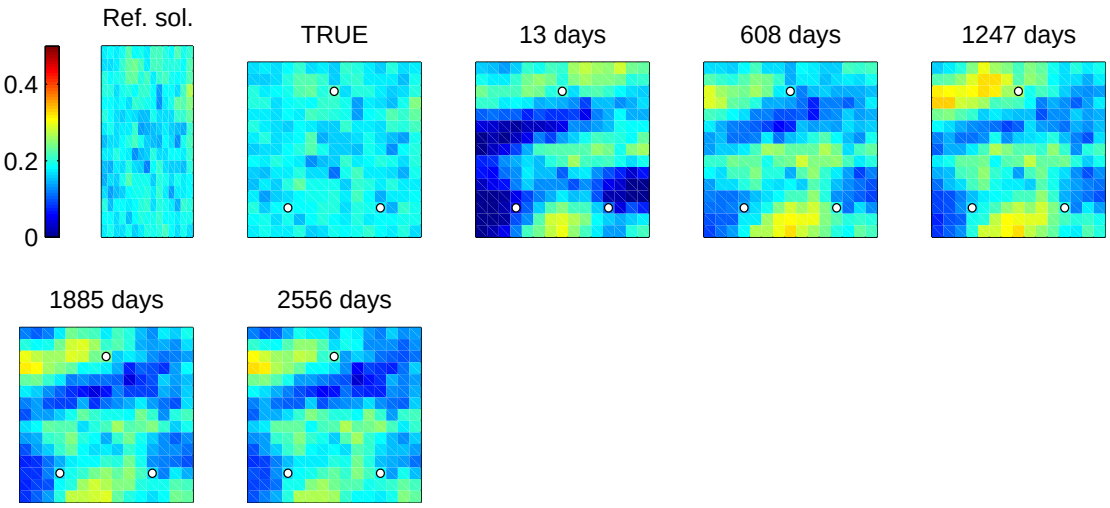

Figure 27: PORO for ensemble member 1 for layer 6

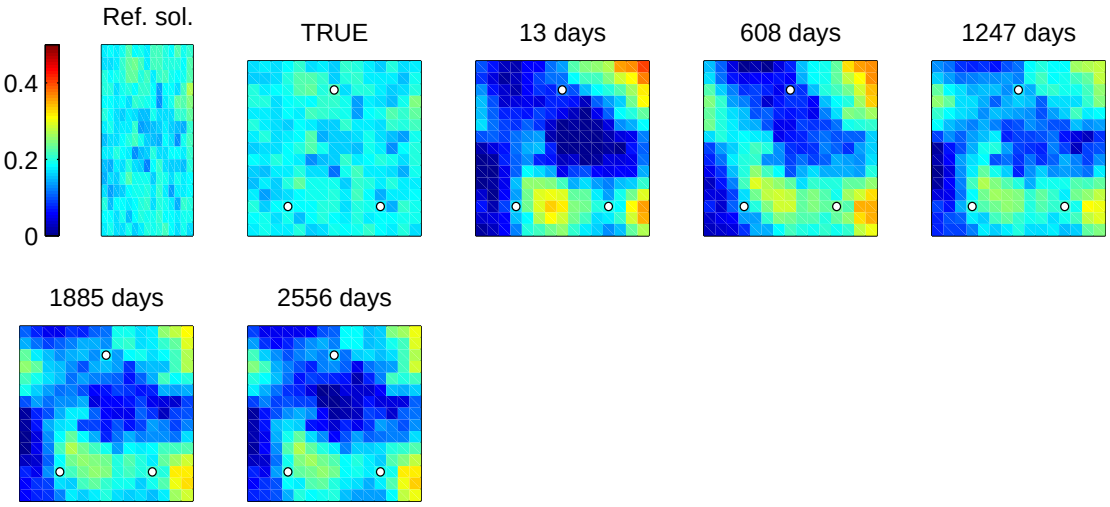

Figure 28: PORO for ensemble member 2 for layer 6

8 PORO for layer 7

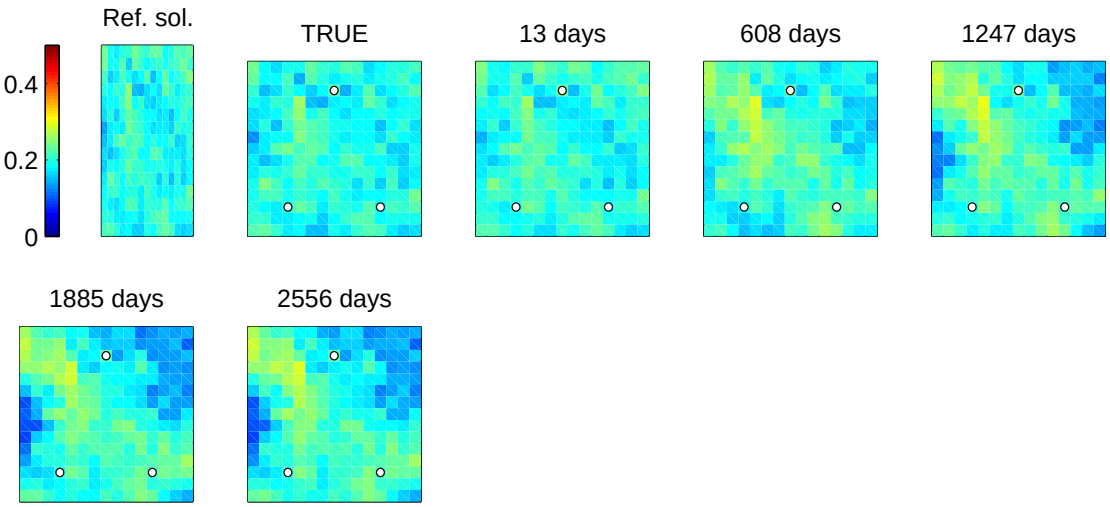

Figure 29: PORO mean value for layer 7

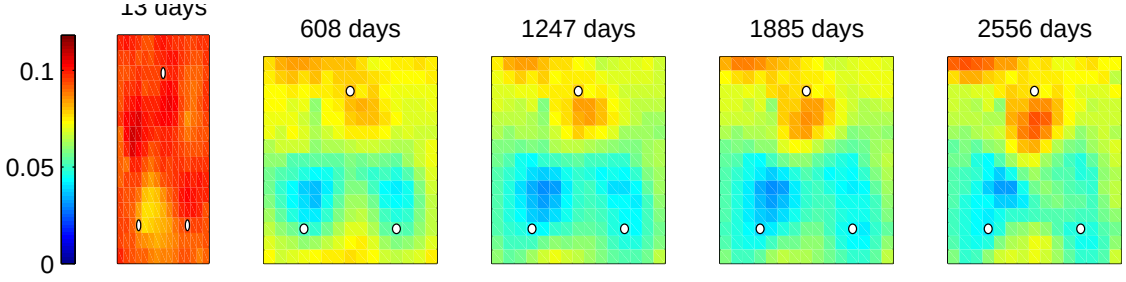

Figure 30: PORO stadard deviation for layer 7

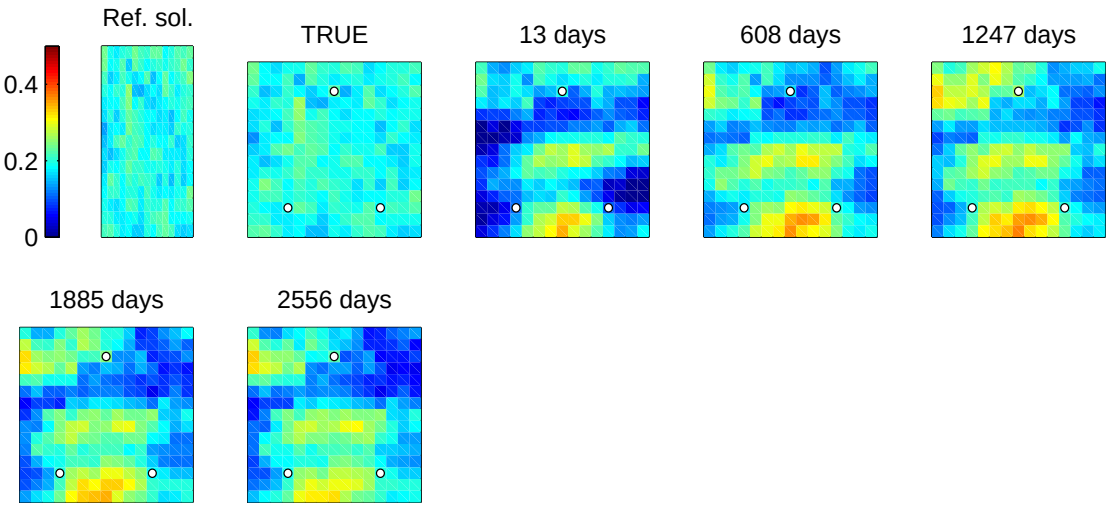

Figure 31: PORO for ensemble member 1 for layer 7

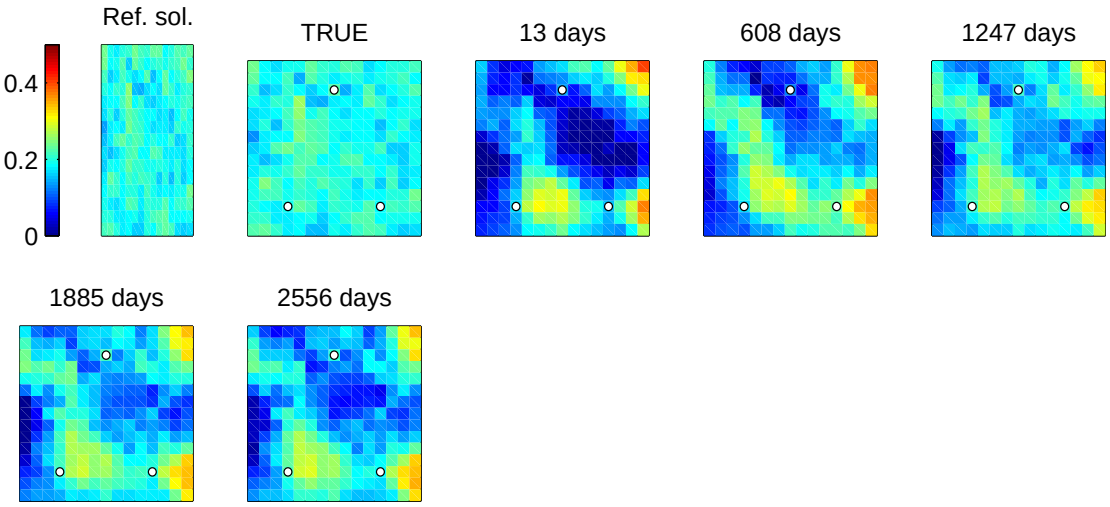

Figure 32: PORO for ensemble member 2 for layer 7

9 PORO for layer 8

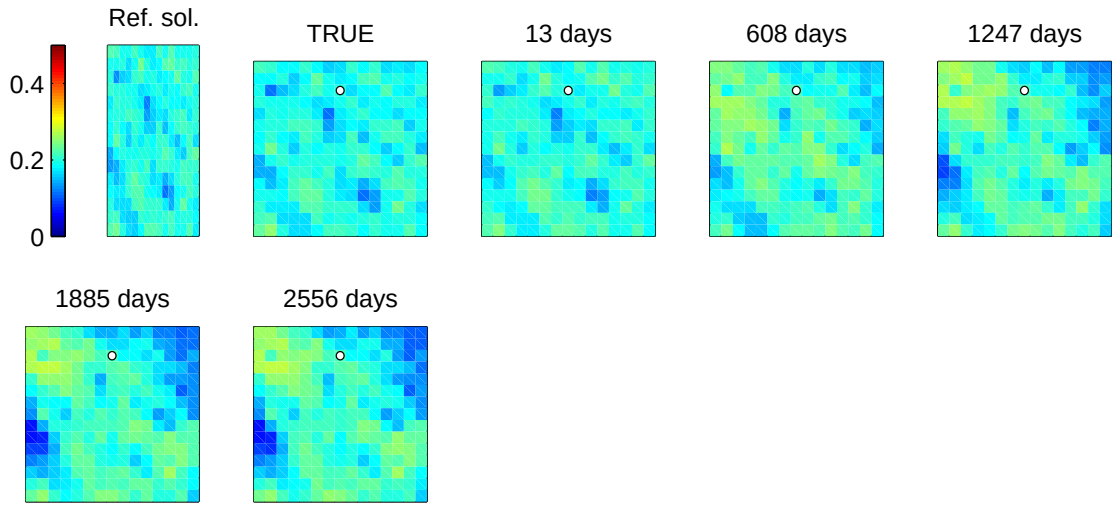

Figure 33: PORO mean value for layer 8

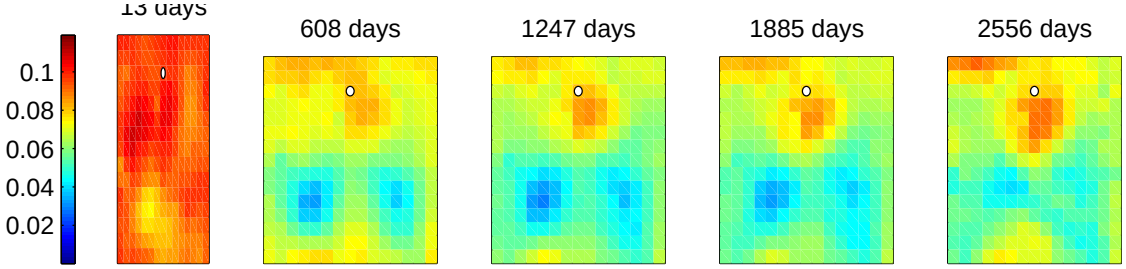

Figure 34: PORO stadard deviation for layer 8

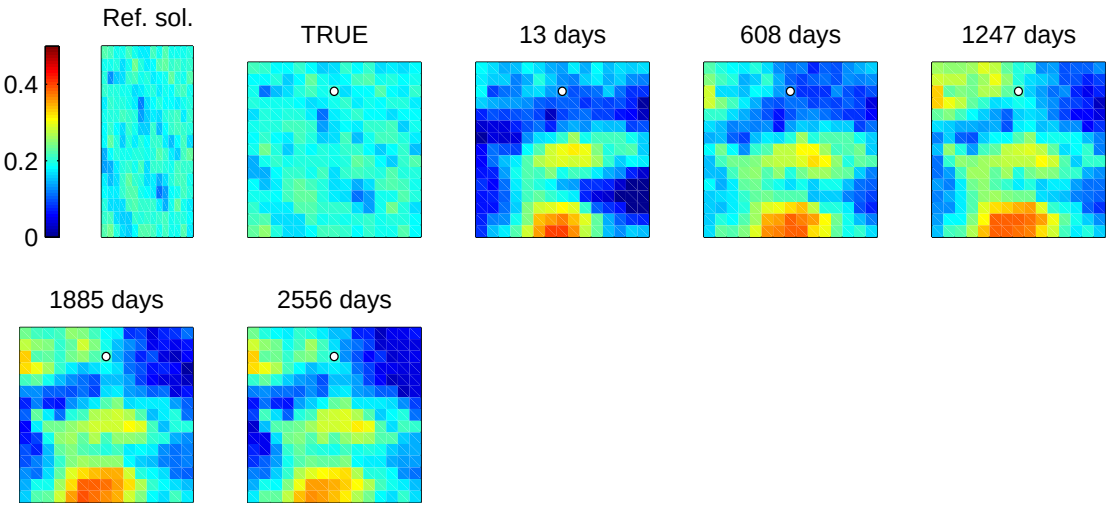

Figure 35: PORO for ensemble member 1 for layer 8

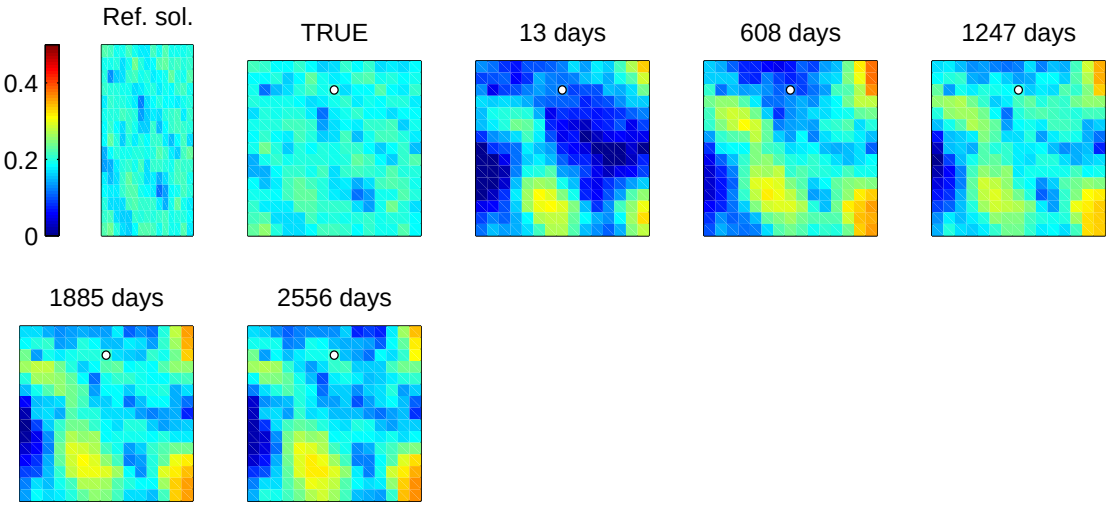

Figure 36: PORO for ensemble member 2 for layer 8

10 PORO for layer 9

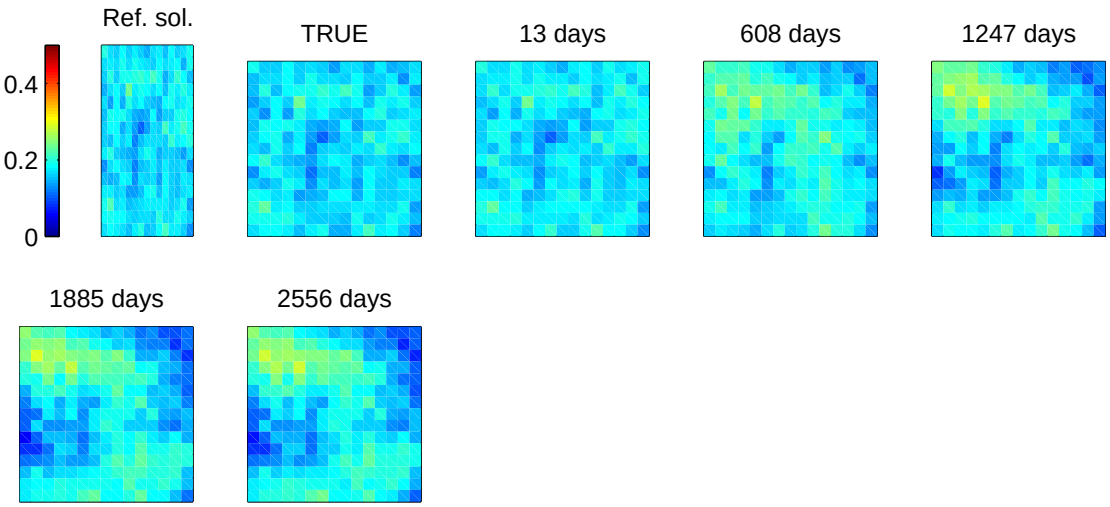

Figure 37: PORO mean value for layer 9

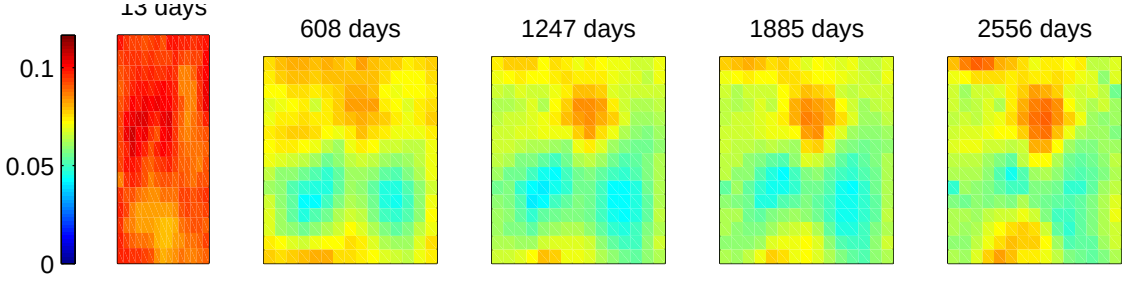

Figure 38: PORO stadard deviation for layer 9

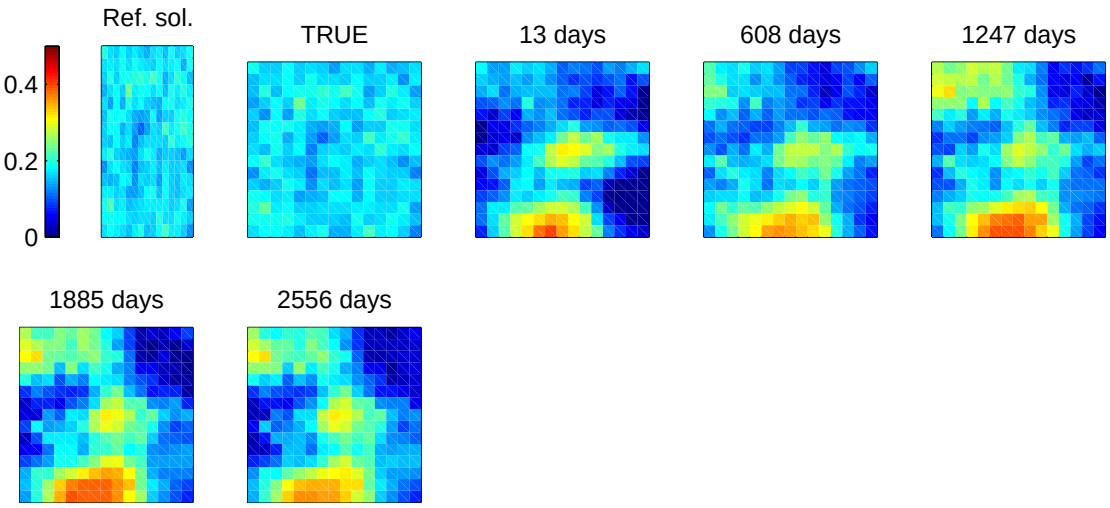

Figure 39: PORO for ensemble member 1 for layer 9

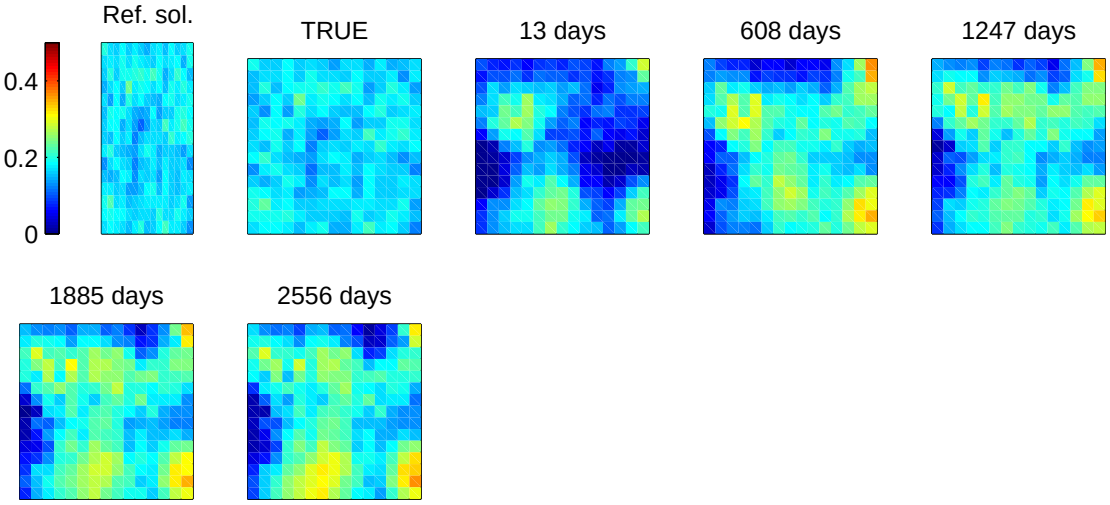

Figure 40: PORO for ensemble member 2 for layer 9

11 PORO for layer 10

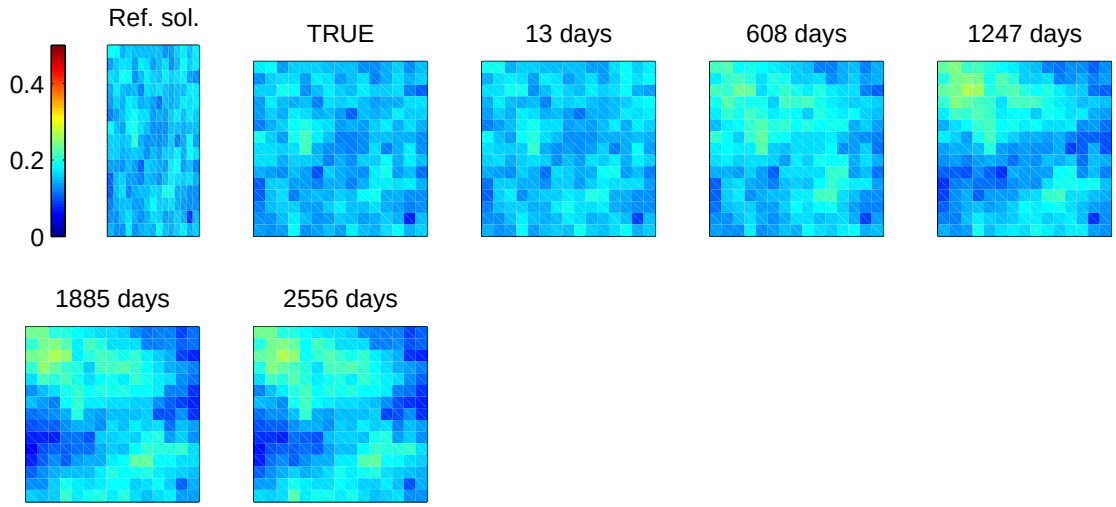

Figure 41: PORO mean value for layer 10

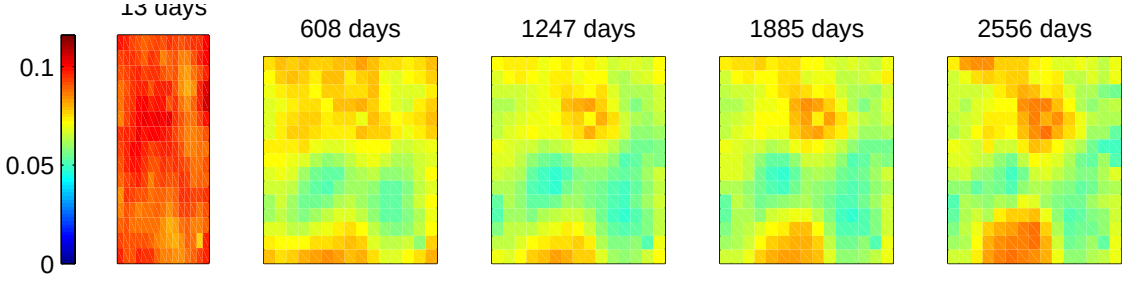

Figure 42: PORO stadard deviation for layer 10

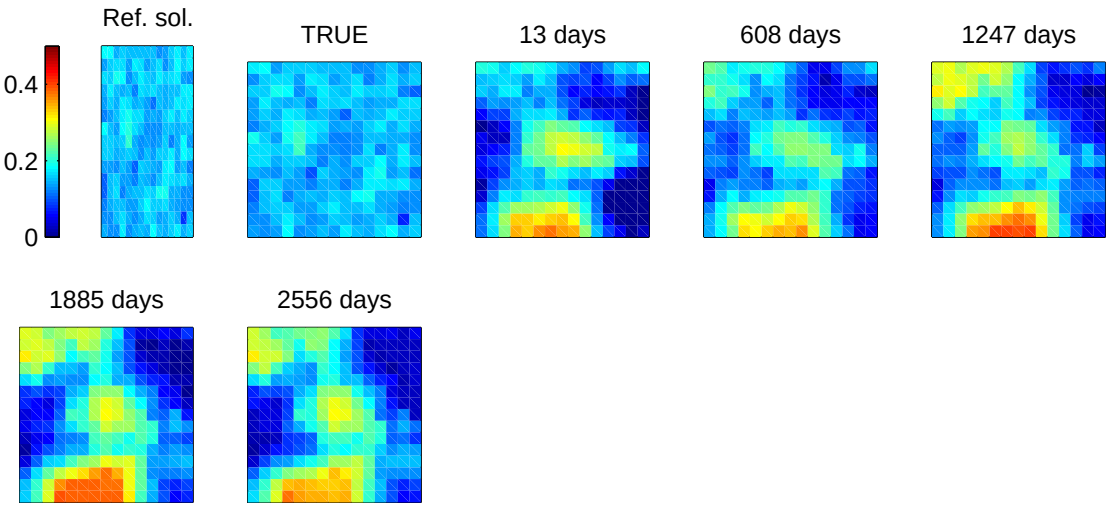

Figure 43: PORO for ensemble member 1 for layer 10

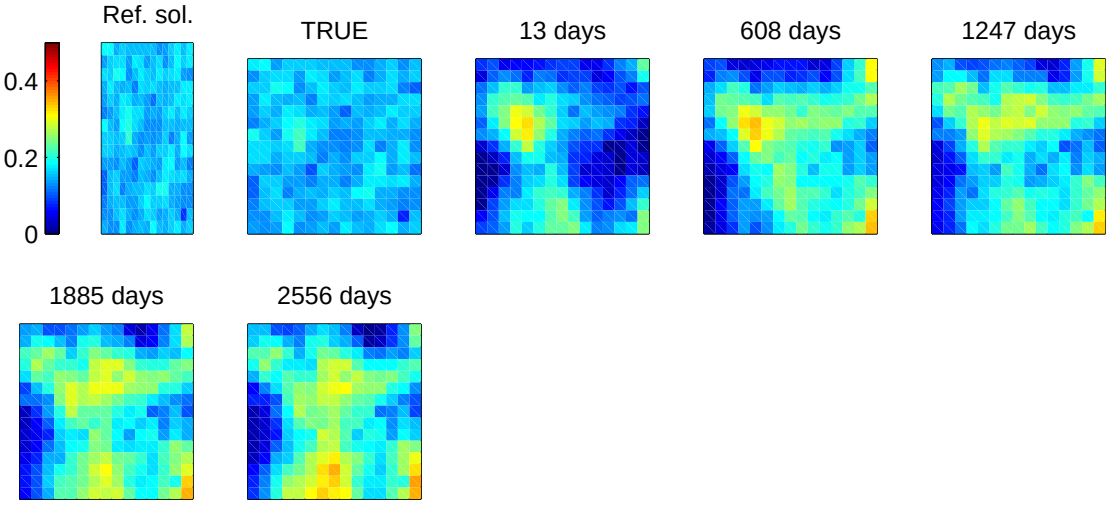

Figure 44: PORO for ensemble member 2 for layer 10

12 PERMX for layer 1

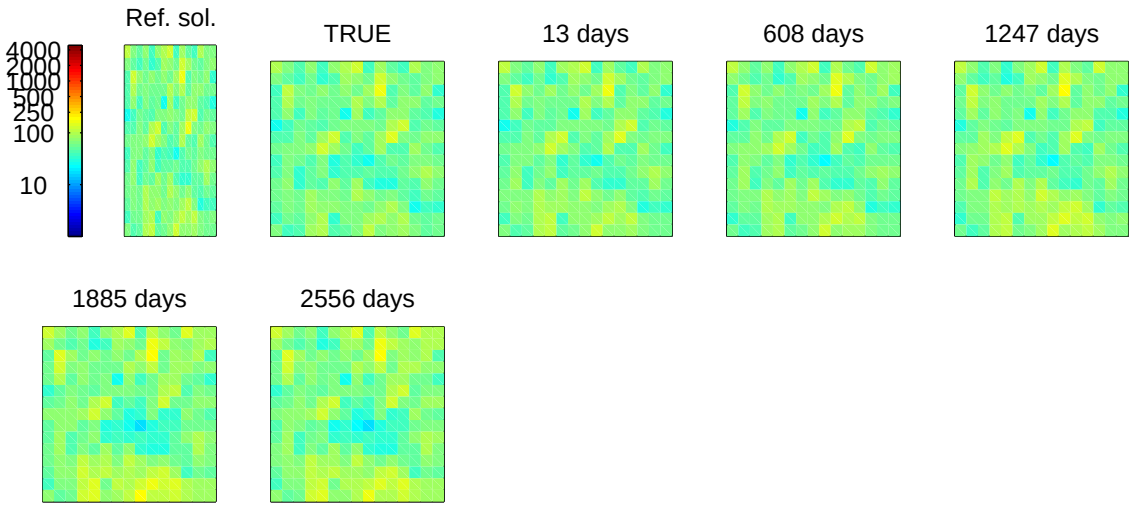

Figure 45: PERMX mean value for layer 1

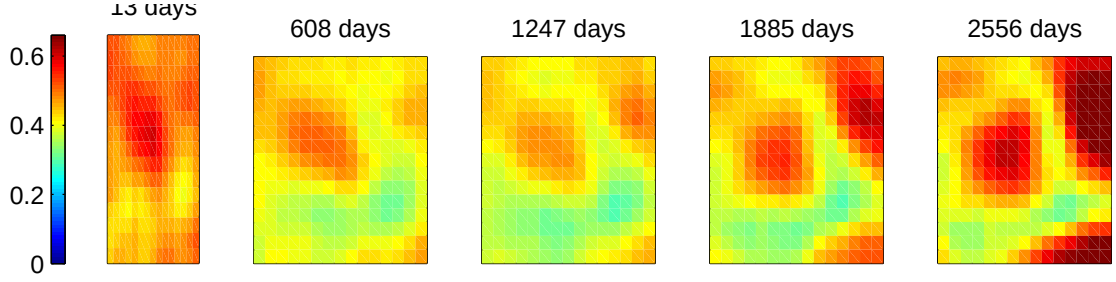

Figure 46: PERMX stadard deviation for layer 1

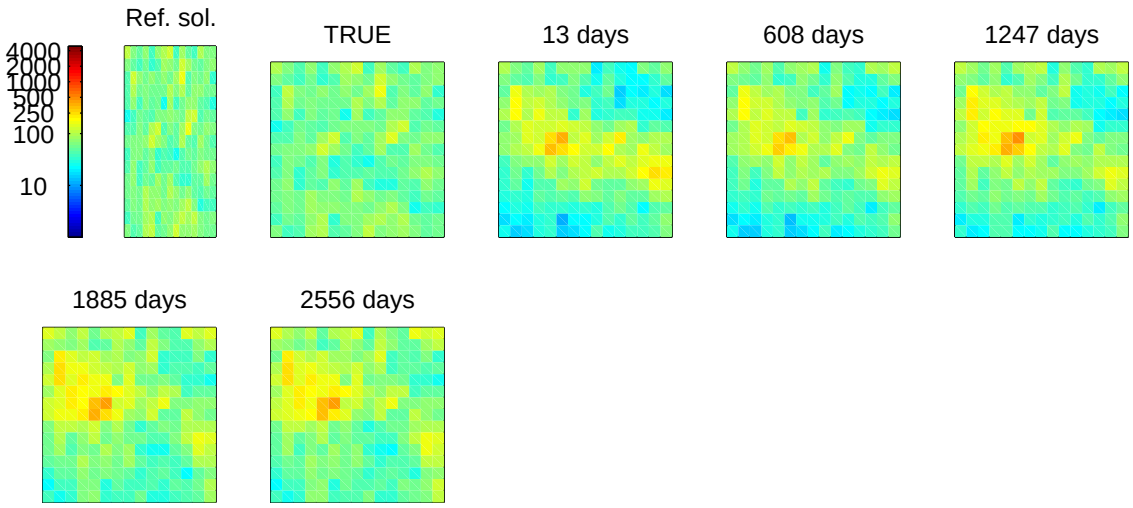

Figure 47: PERMX for ensemble member 1 for layer 1

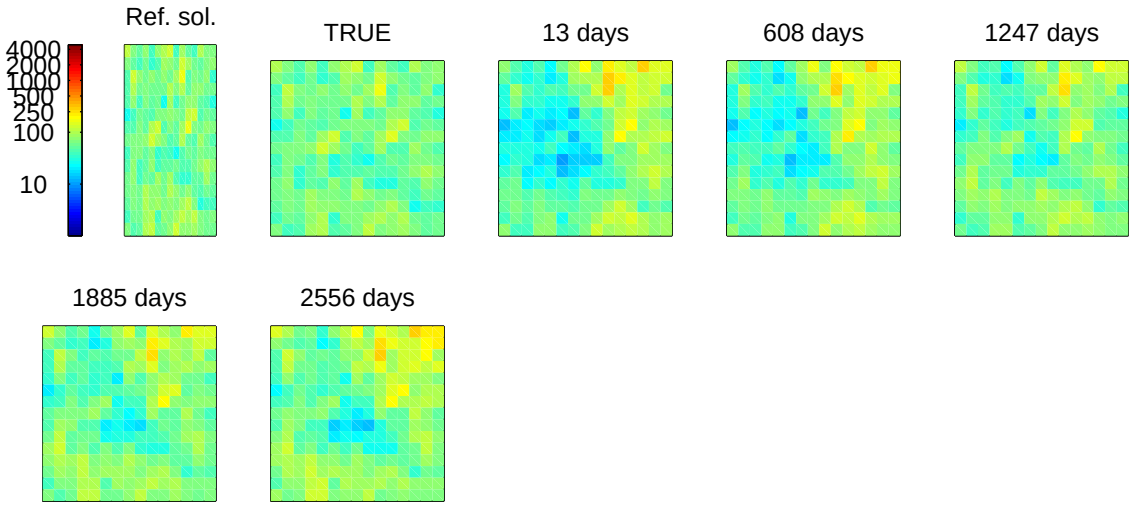

Figure 48: PERMX for ensemble member 2 for layer 1

13 PERMX for layer 2

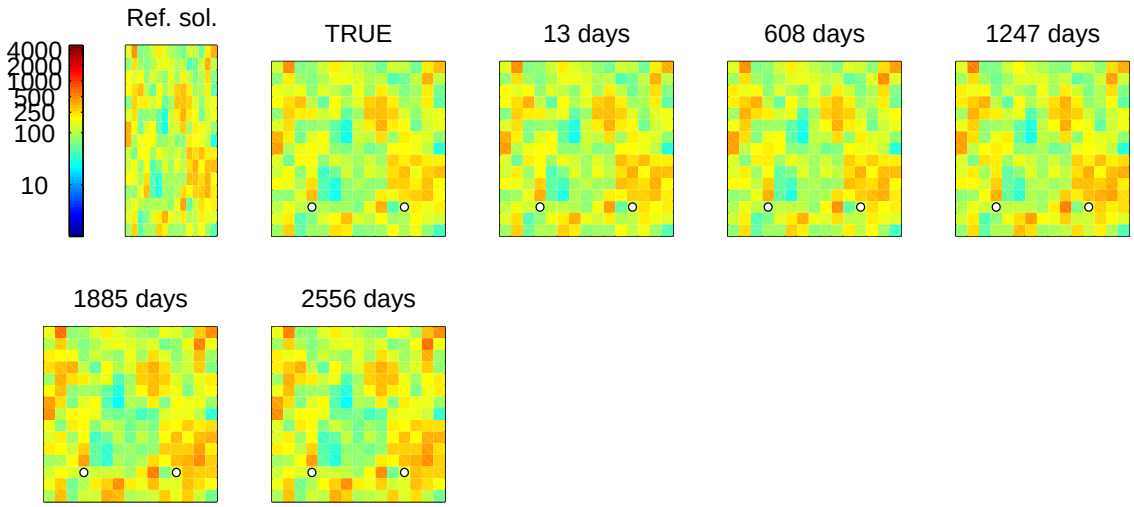

Figure 49: PERMX mean value for layer 2

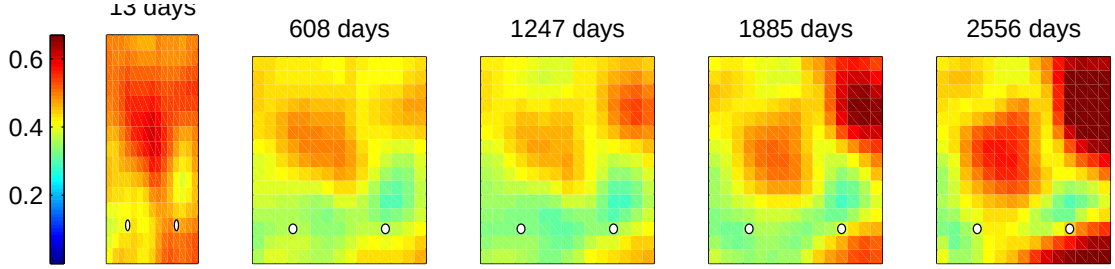

Figure 50: PERMX stadard deviation for layer 2

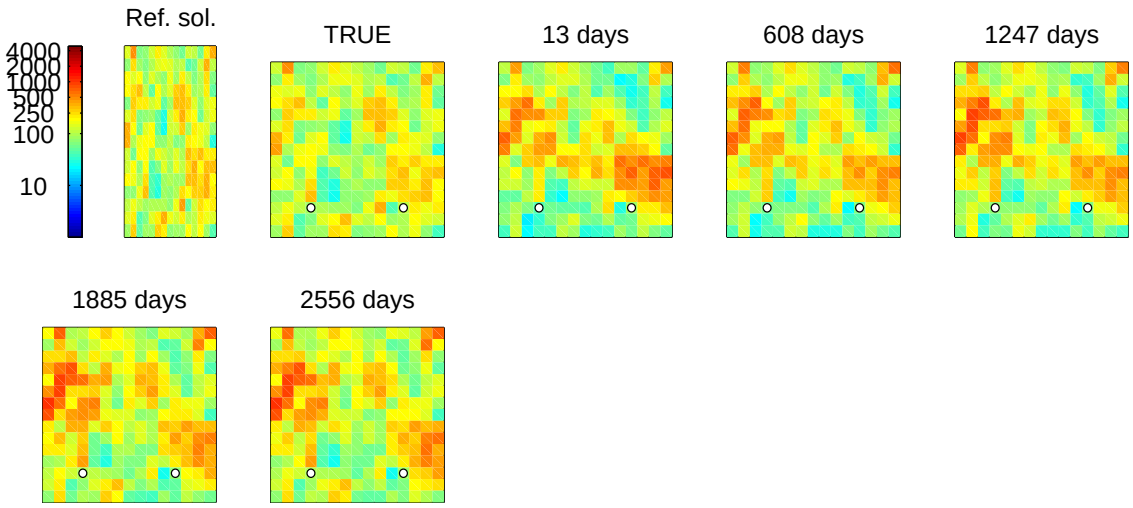

Figure 51: PERMX for ensemble member 1 for layer 2

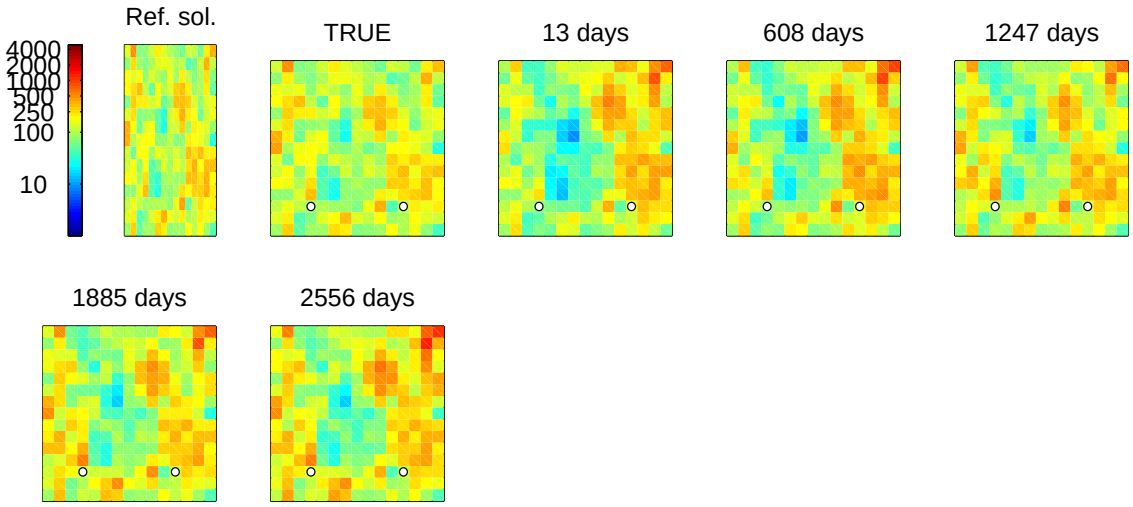

Figure 52: PERMX for ensemble member 2 for layer 2

14 PERMX for layer 3

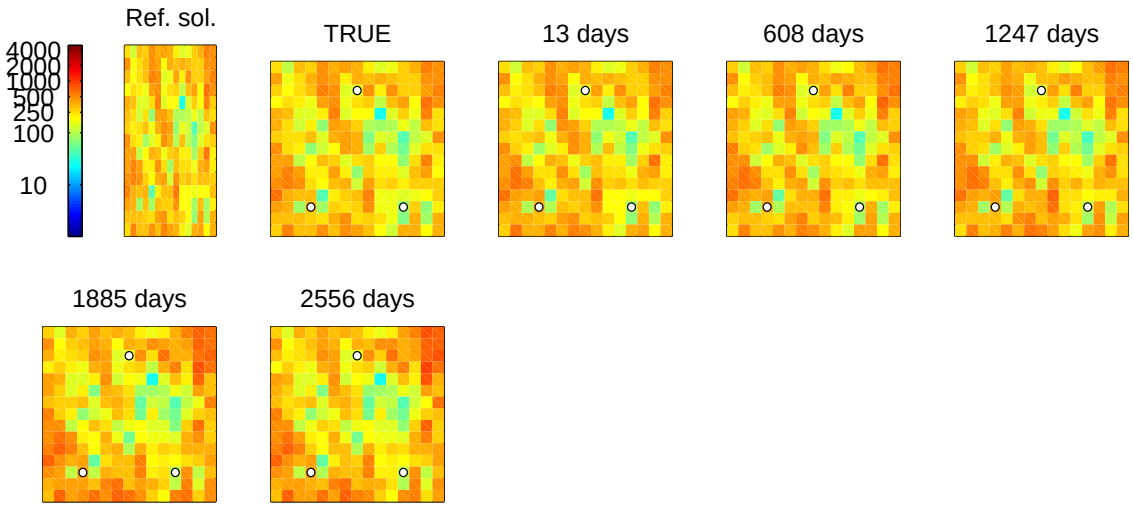

Figure 53: PERMX mean value for layer 3

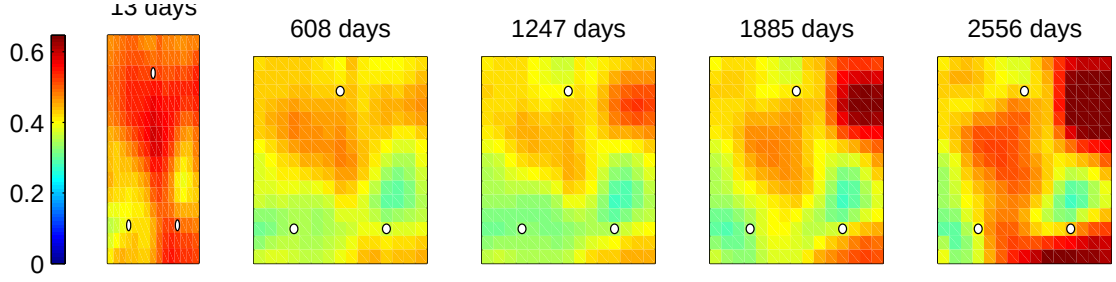

Figure 54: PERMX stadard deviation for layer 3

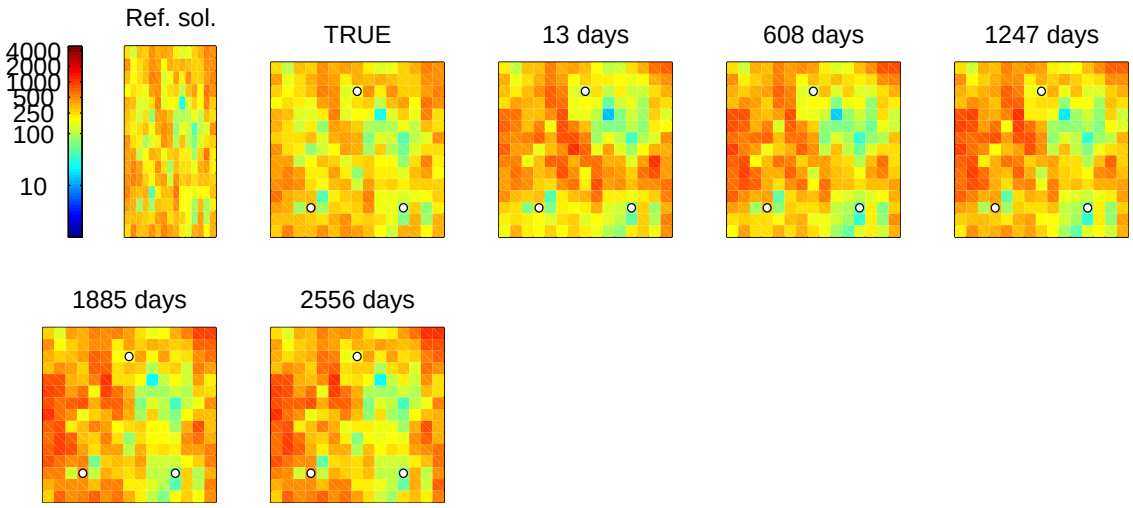

Figure 55: PERMX for ensemble member 1 for layer 3

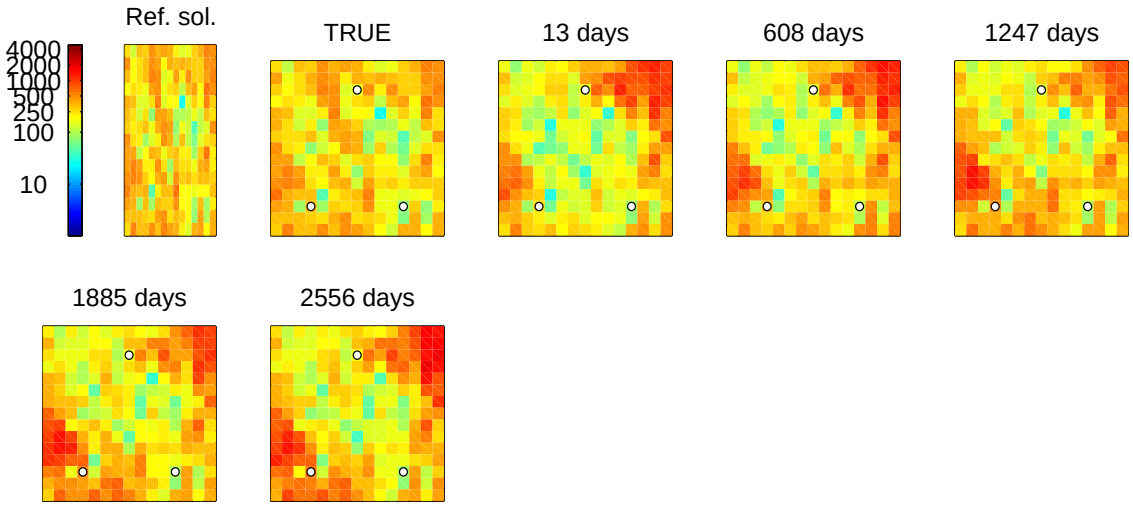

Figure 56: PERMX for ensemble member 2 for layer 3

15 PERMX for layer 4

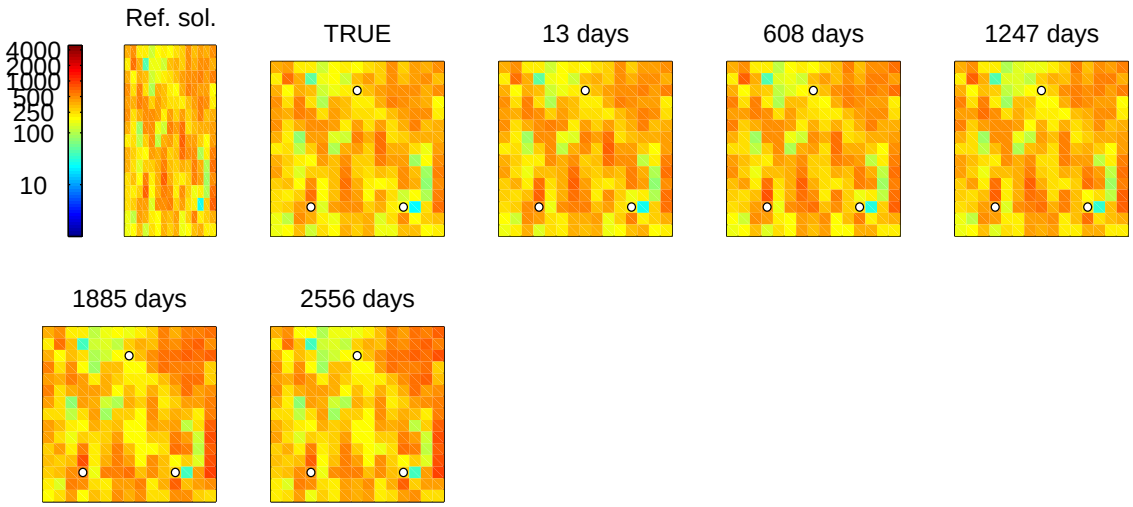

Figure 57: PERMX mean value for layer 4

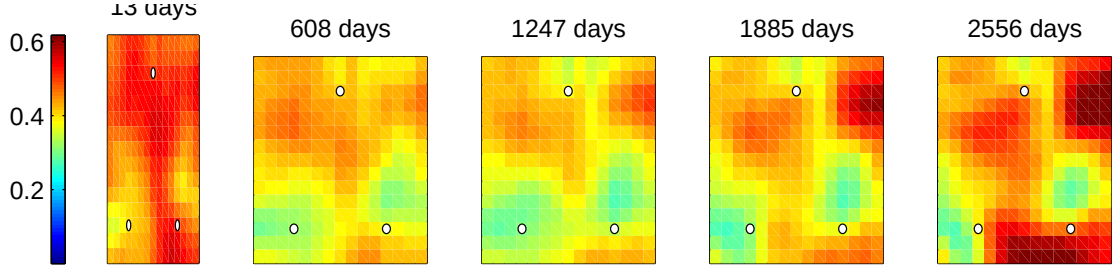

Figure 58: PERMX stadard deviation for layer 4

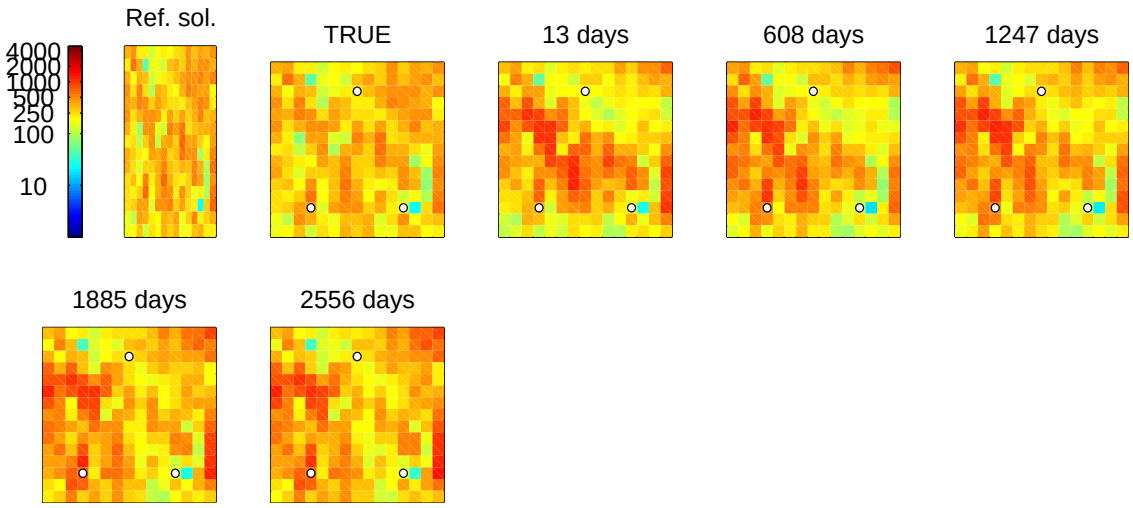

Figure 59: PERMX for ensemble member 1 for layer 4

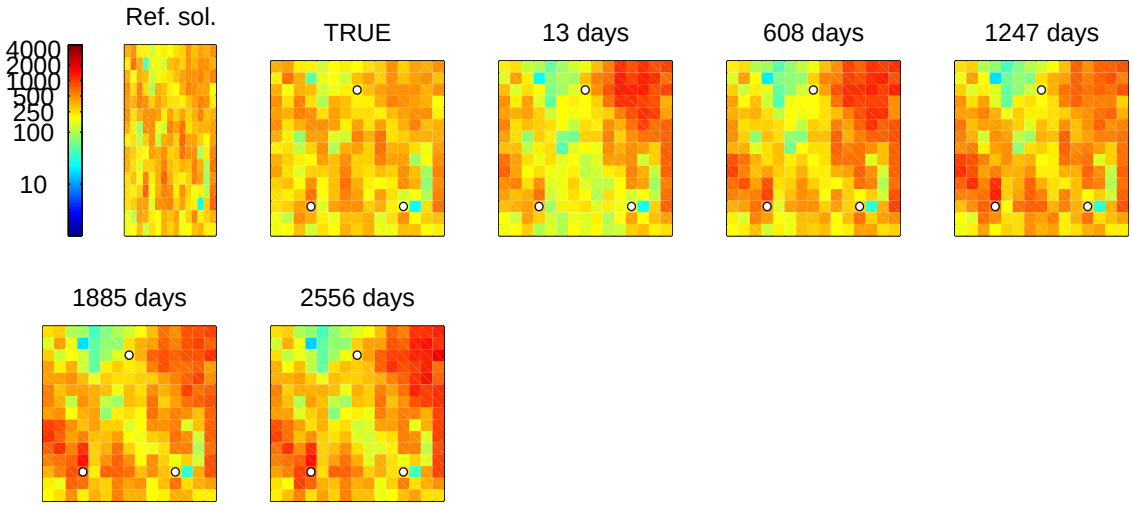

Figure 60: PERMX for ensemble member 2 for layer 4

16 PERMX for layer 5

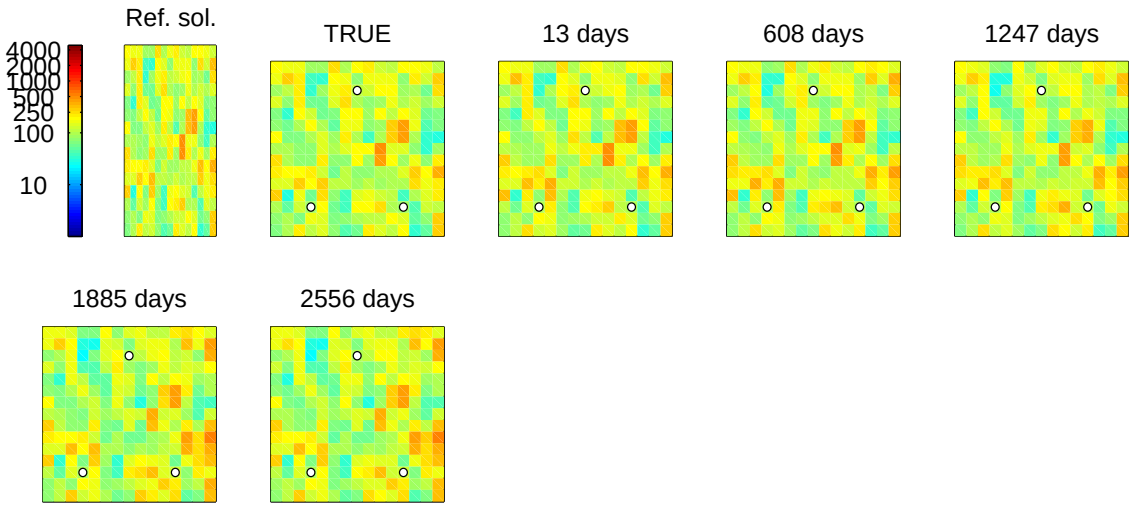

Figure 61: PERMX mean value for layer 5

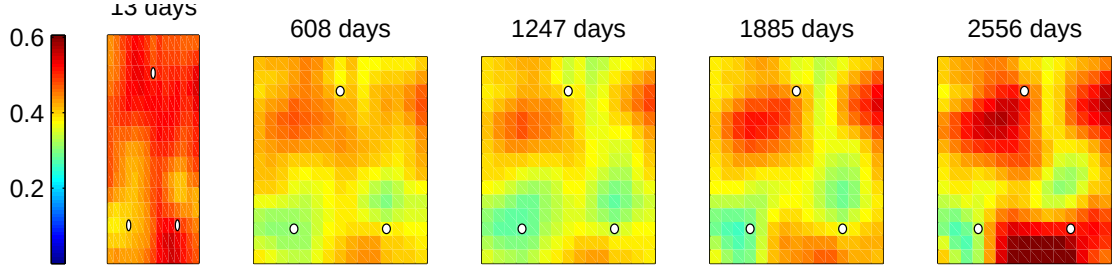

Figure 62: PERMX stadard deviation for layer 5

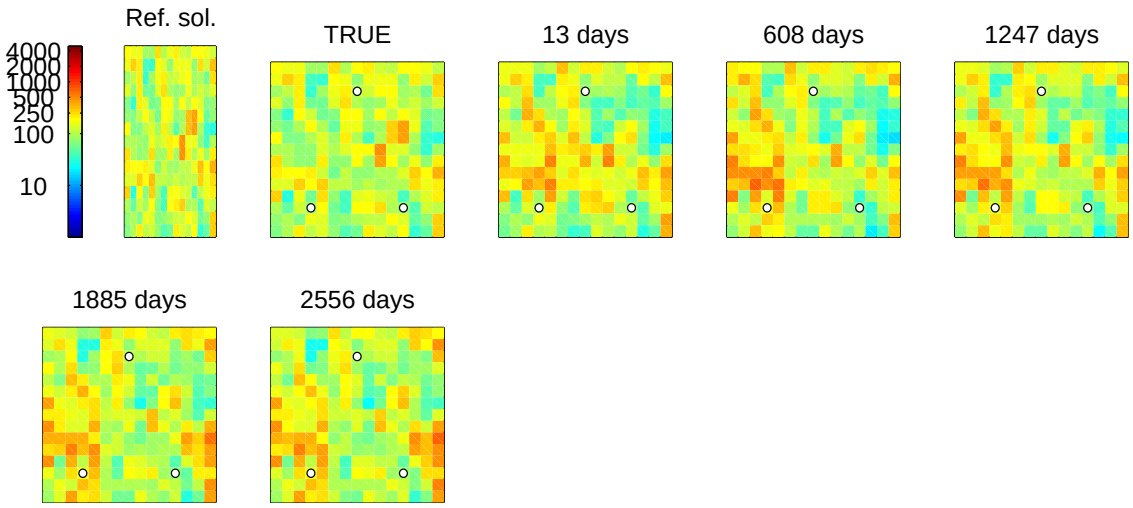

Figure 63: PERMX for ensemble member 1 for layer 5

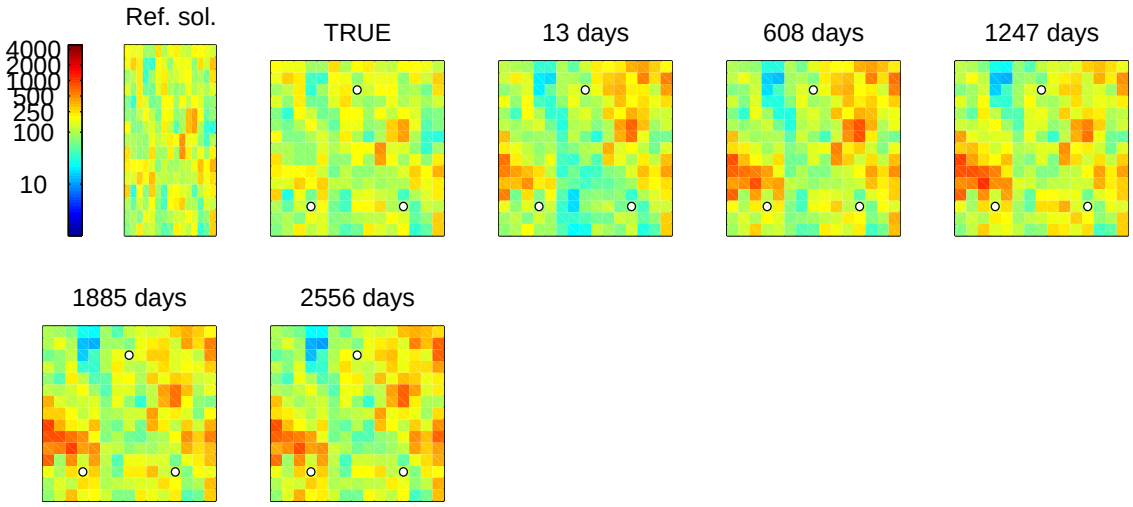

Figure 64: PERMX for ensemble member 2 for layer 5

17 PERMX for layer 6

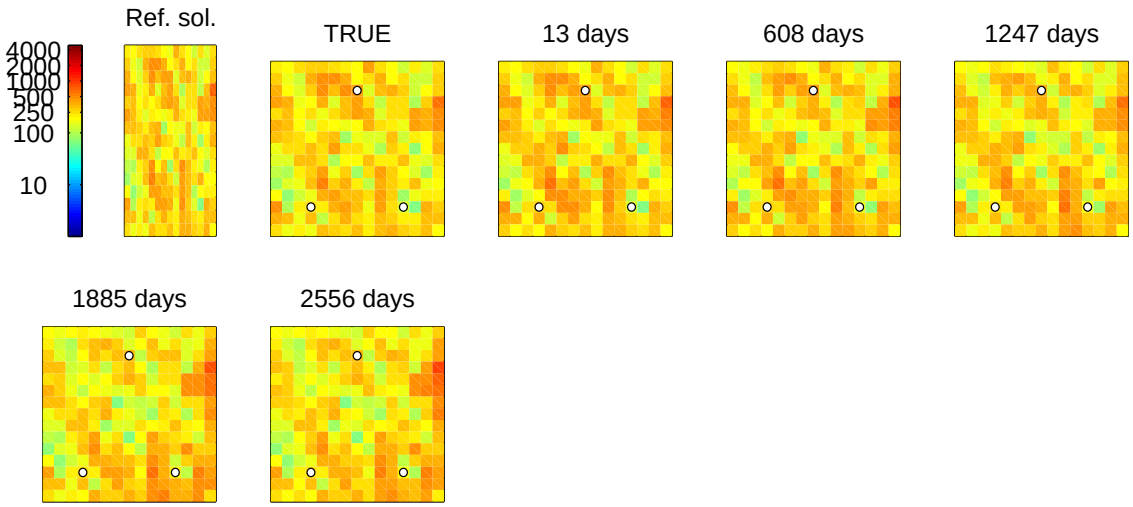

Figure 65: PERMX mean value for layer 6

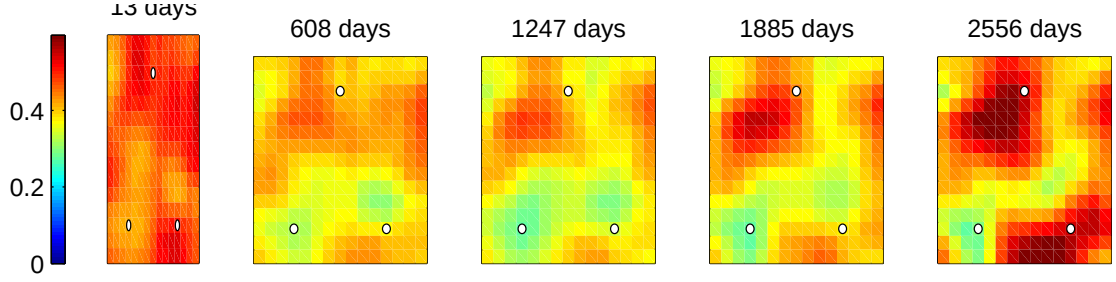

Figure 66: PERMX stadard deviation for layer 6

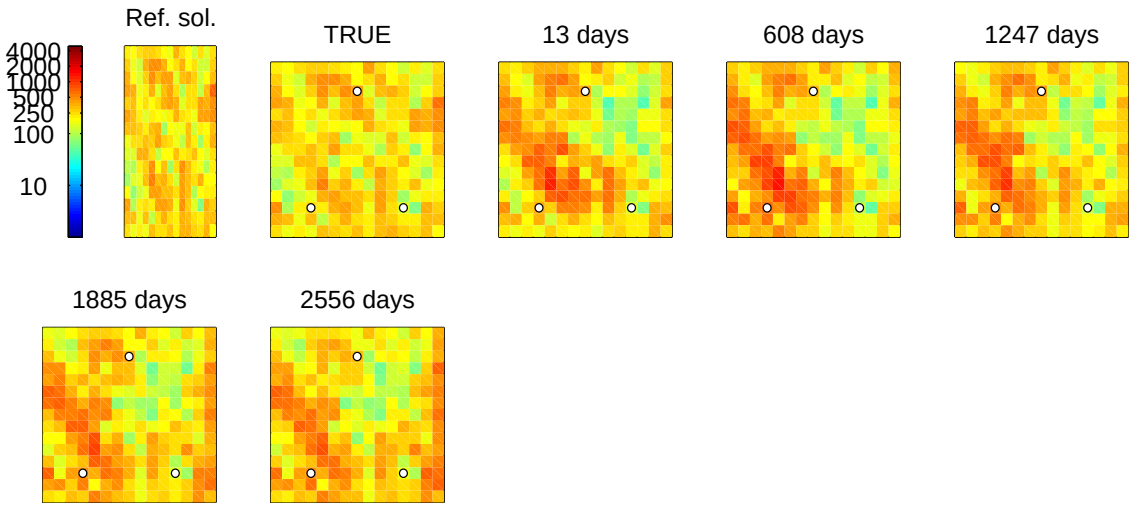

Figure 67: PERMX for ensemble member 1 for layer 6

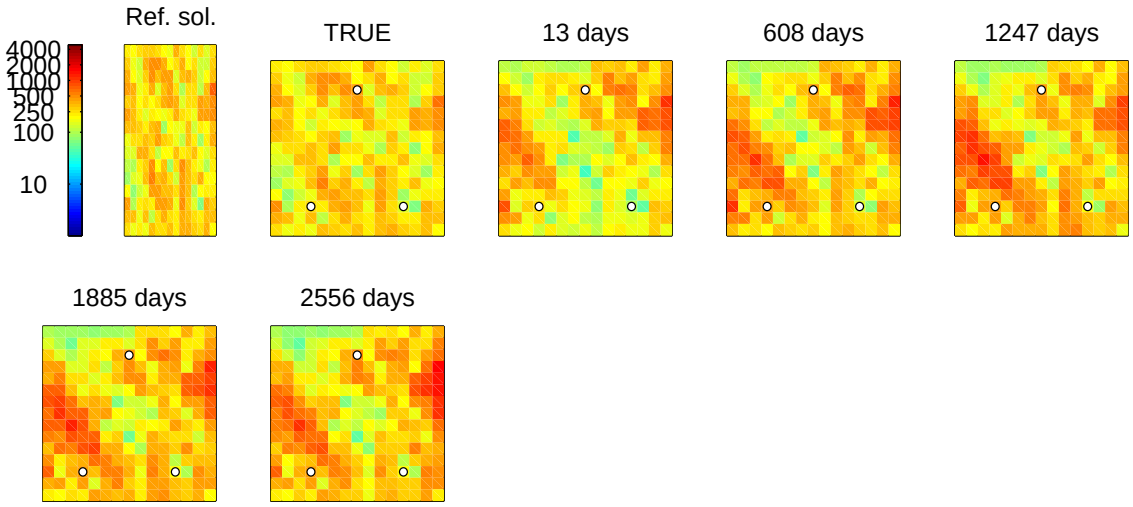

Figure 68: PERMX for ensemble member 2 for layer 6

18 PERMX for layer 7

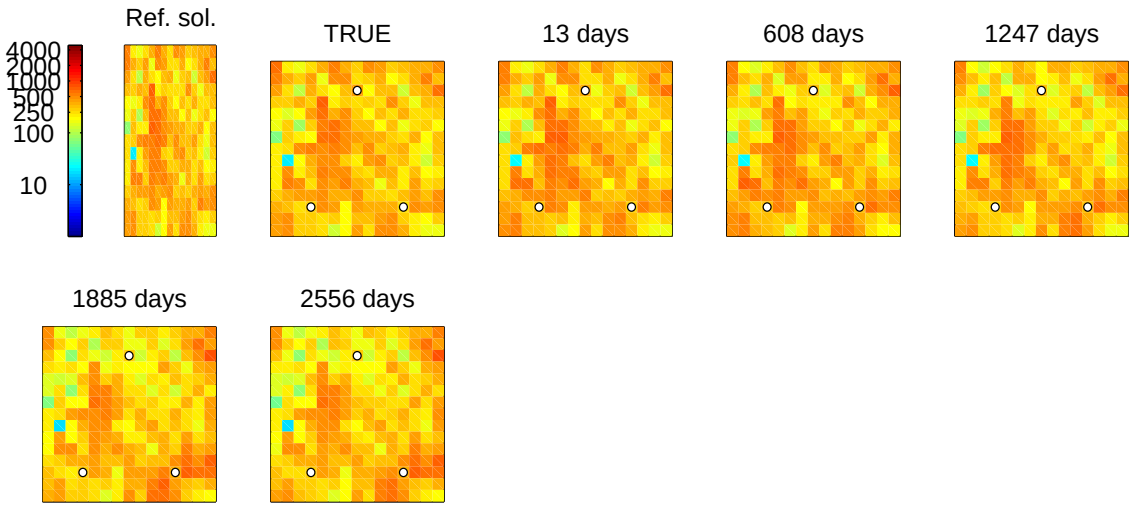

Figure 69: PERMX mean value for layer 7

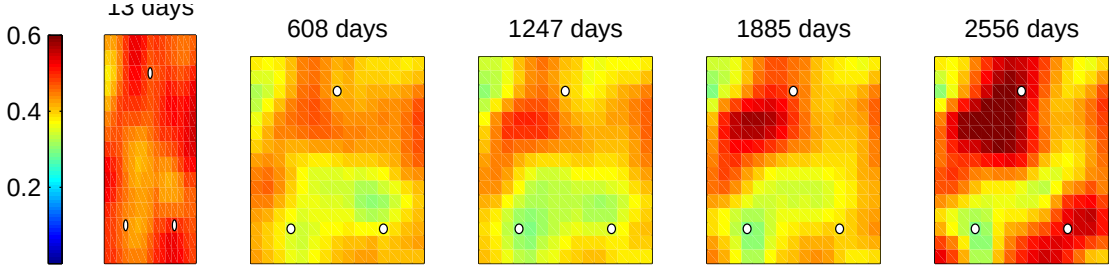

Figure 70: PERMX stadard deviation for layer 7

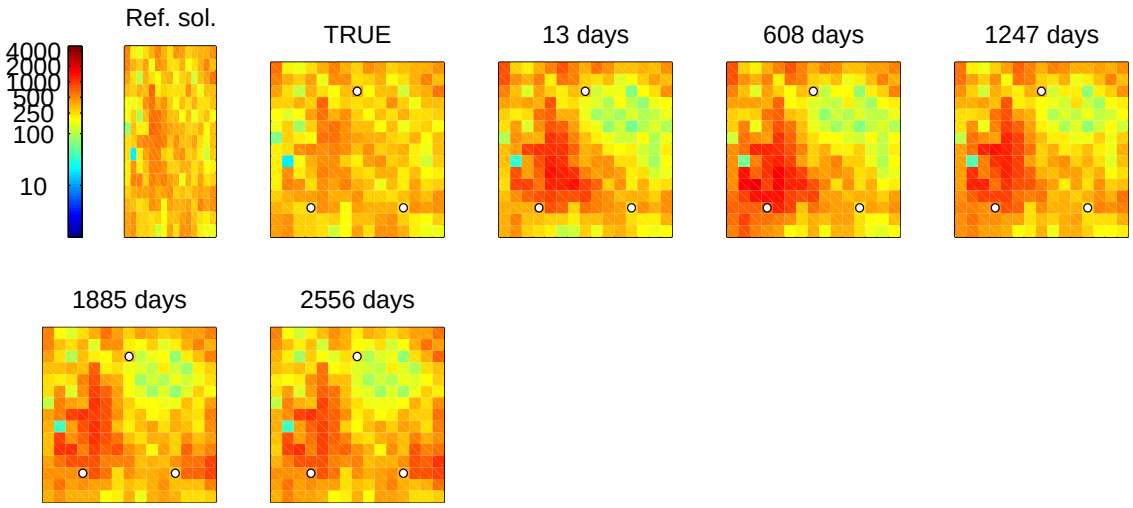

Figure 71: PERMX for ensemble member 1 for layer 7

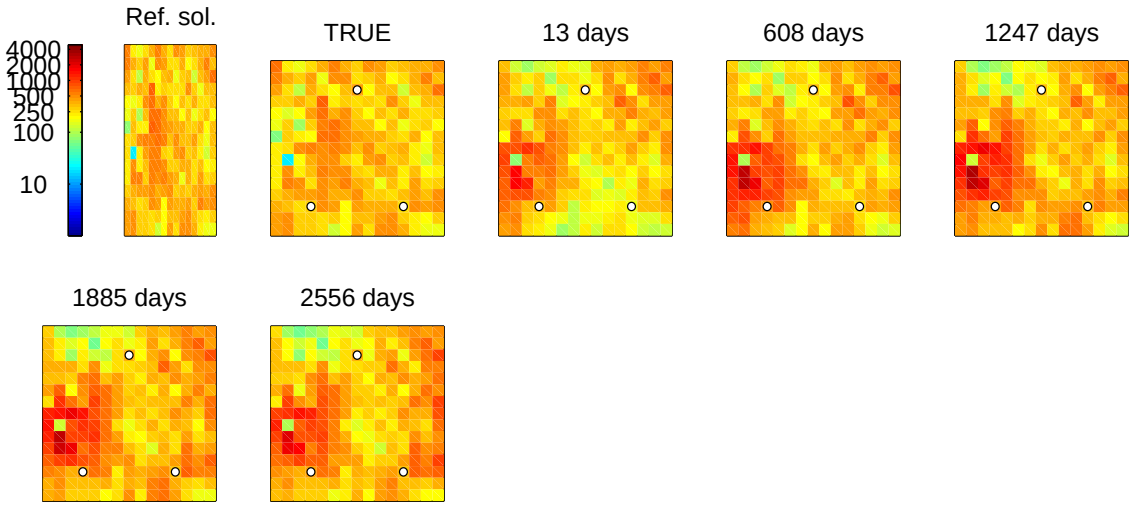

Figure 72: PERMX for ensemble member 2 for layer 7

19 PERMX for layer 8

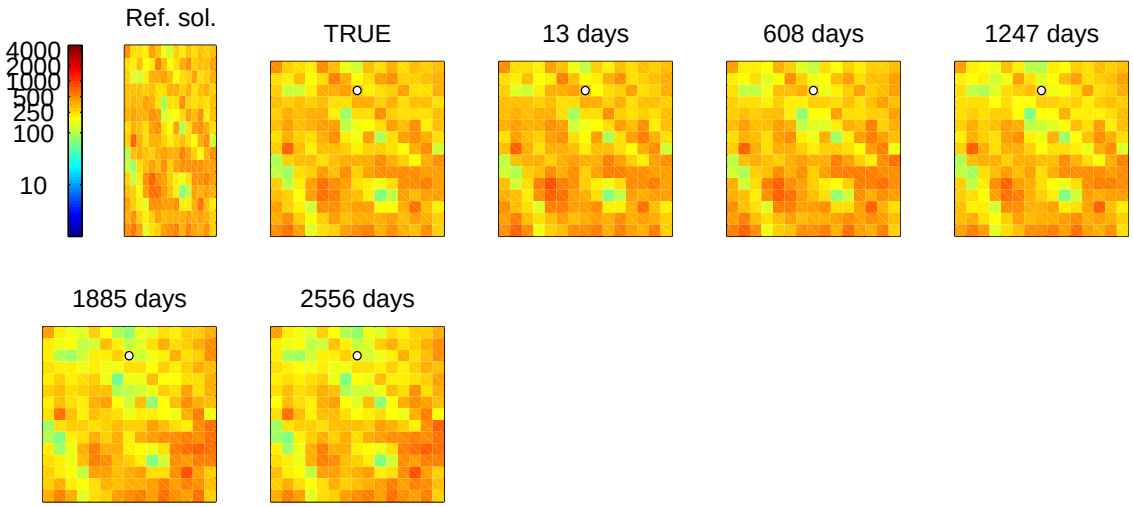

Figure 73: PERMX mean value for layer 8

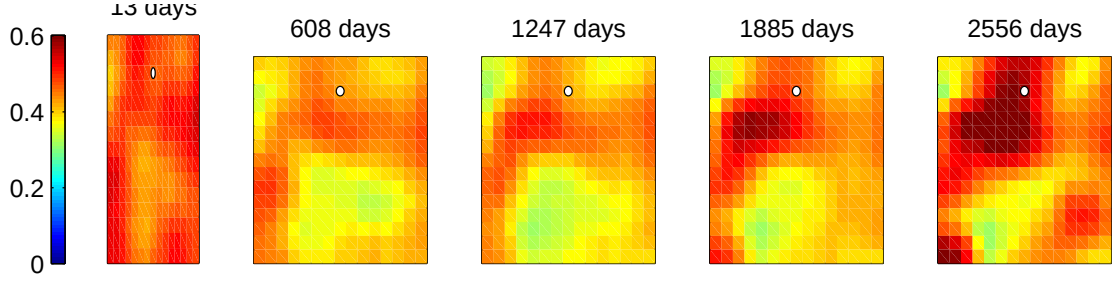

Figure 74: PERMX stadard deviation for layer 8

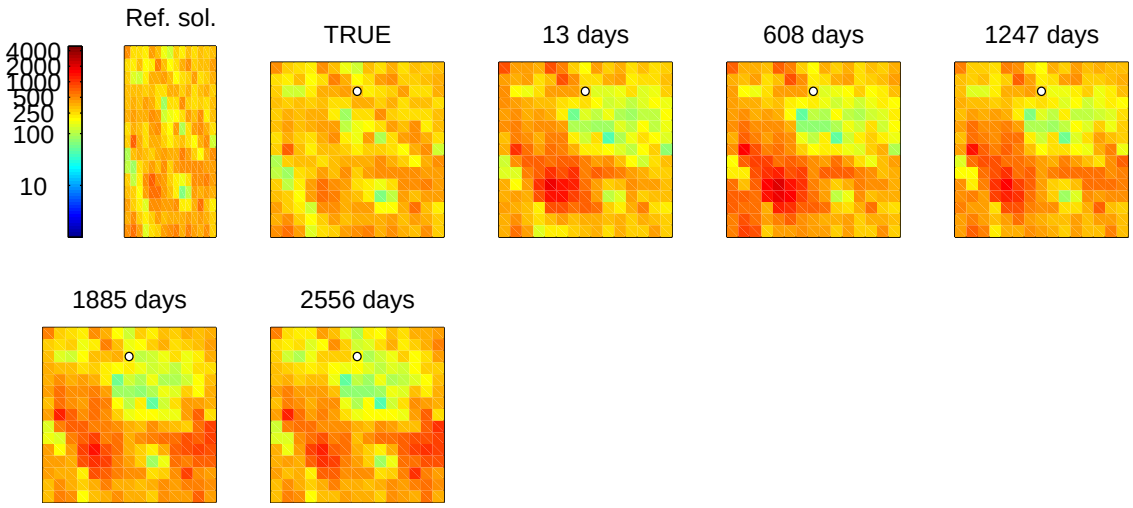

Figure 75: PERMX for ensemble member 1 for layer 8

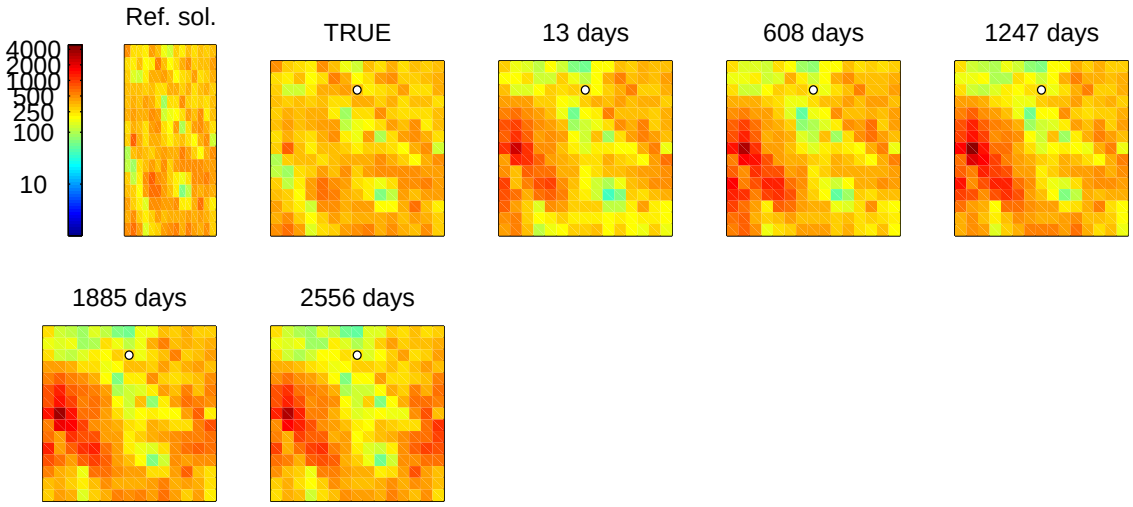

Figure 76: PERMX for ensemble member 2 for layer 8

20 PERMX for layer 9

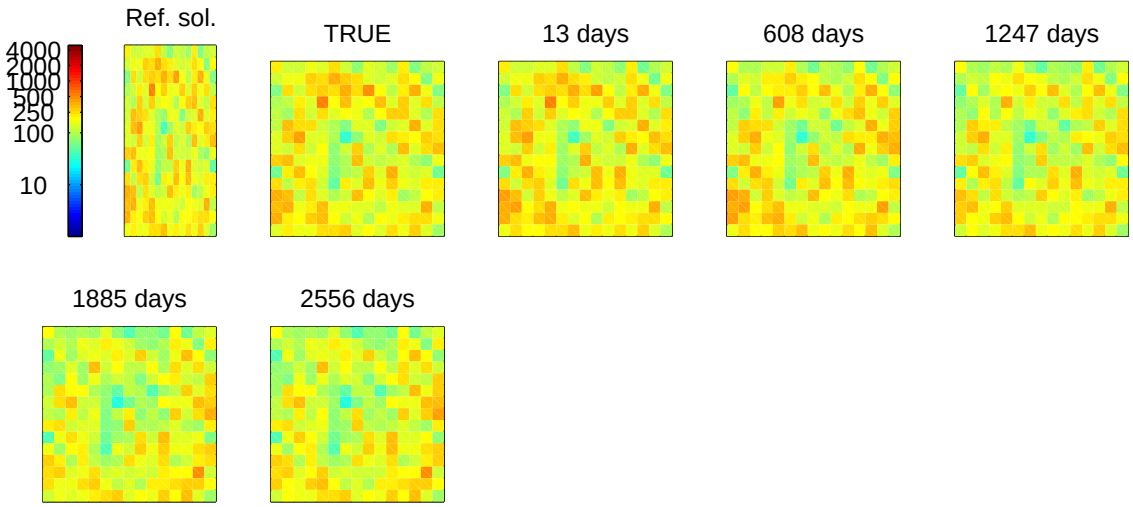

Figure 77: PERMX mean value for layer 9

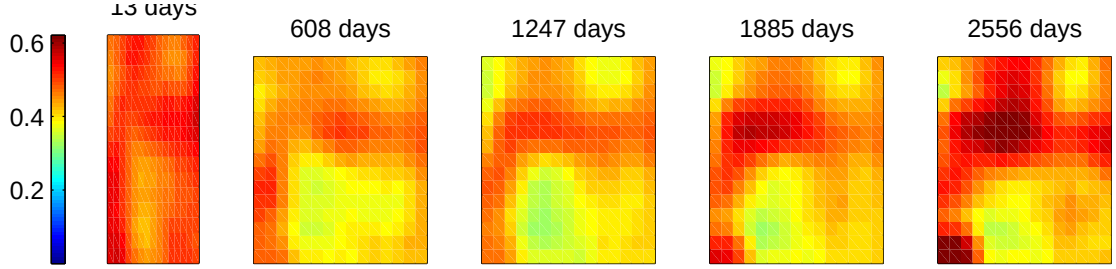

Figure 78: PERMX stadard deviation for layer 9

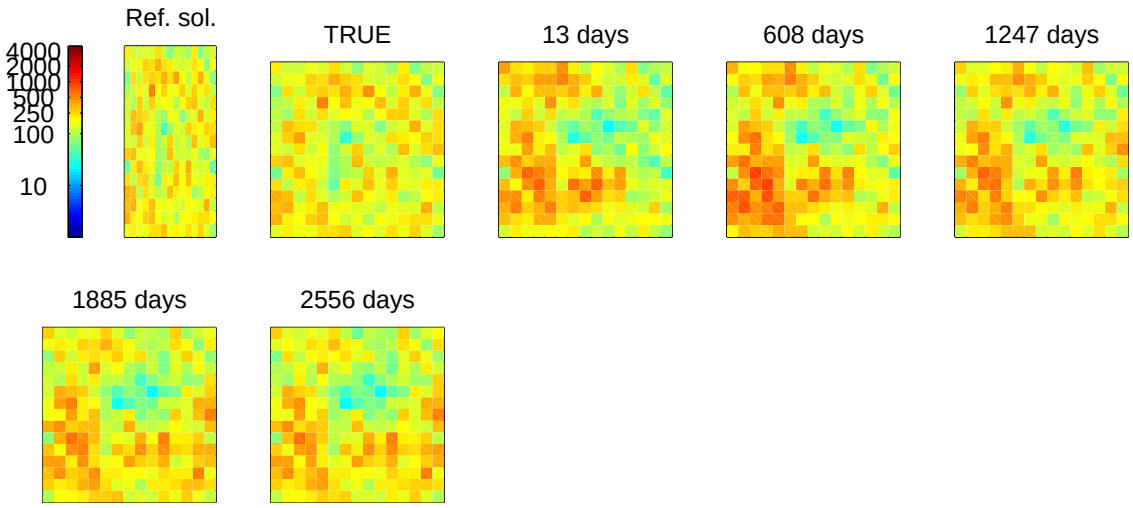

Figure 79: PERMX for ensemble member 1 for layer 9

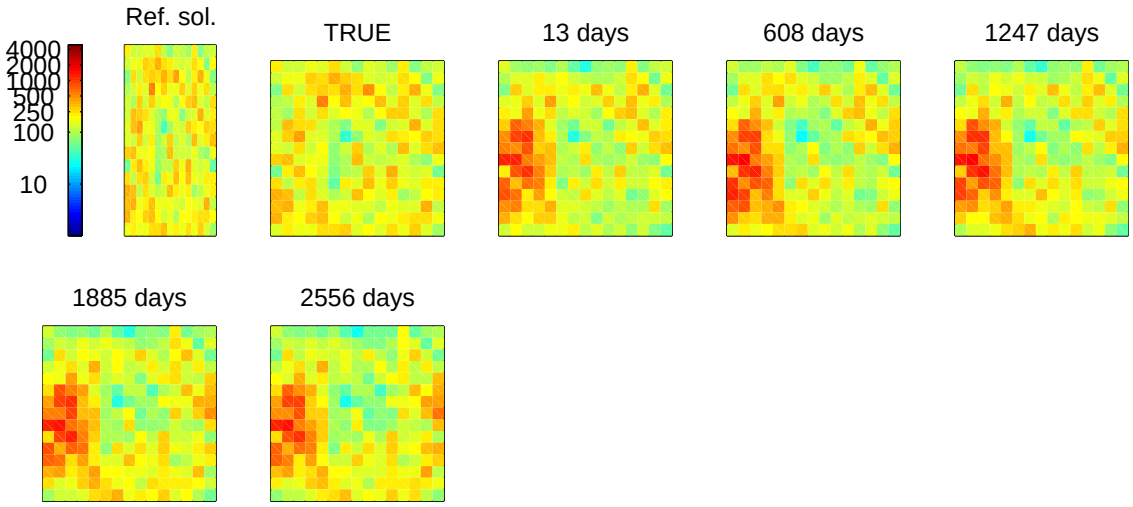

Figure 80: PERMX for ensemble member 2 for layer 9

21 PERMX for layer 10

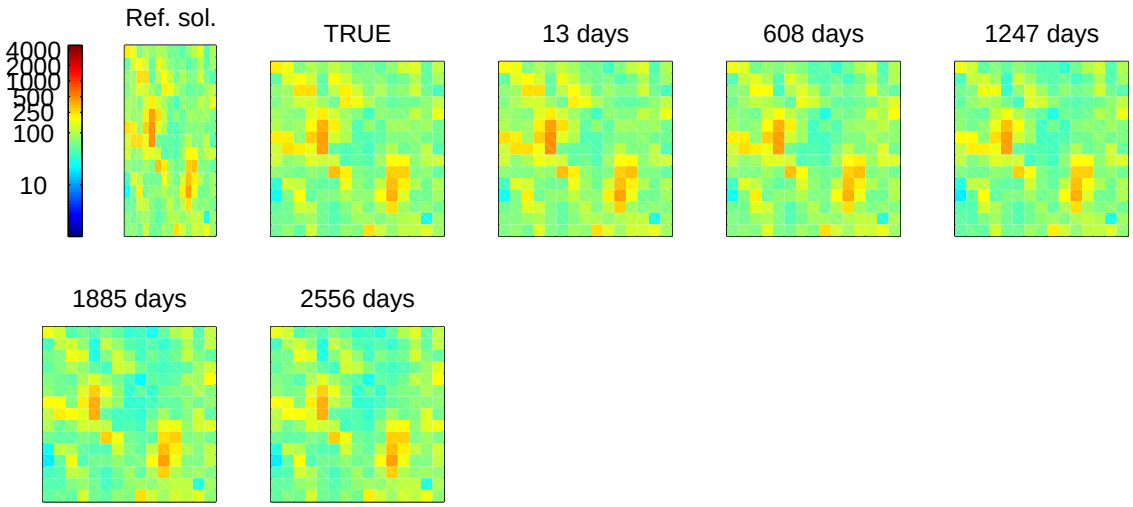

Figure 81: PERMX mean value for layer 10

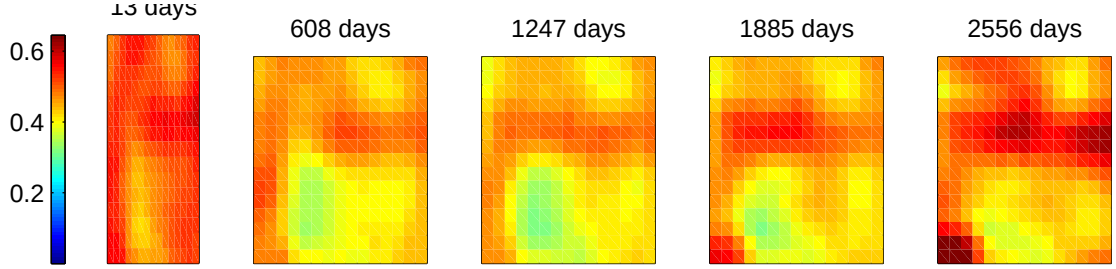

Figure 82: PERMX stadard deviation for layer 10

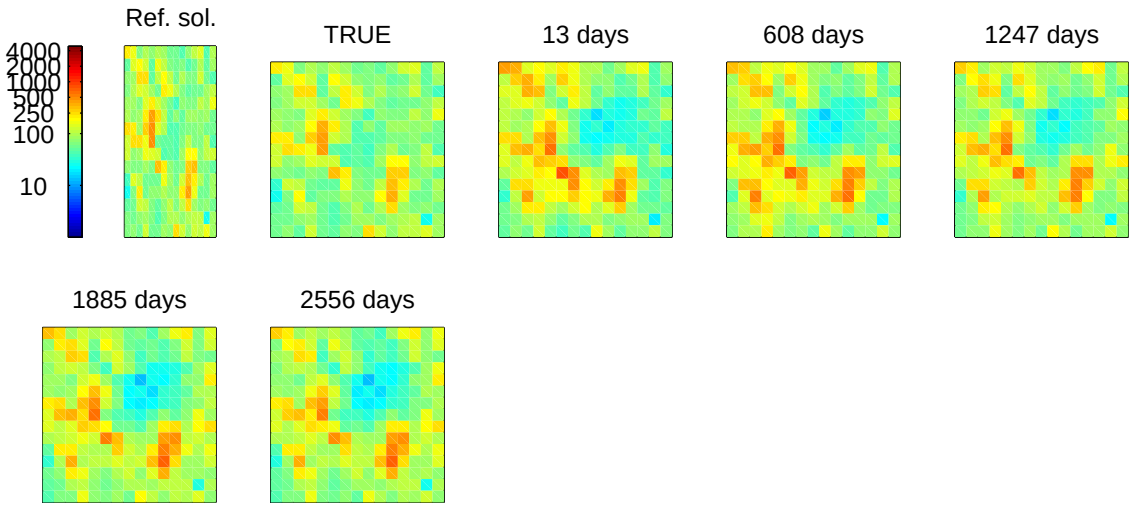

Figure 83: PERMX for ensemble member 1 for layer 10

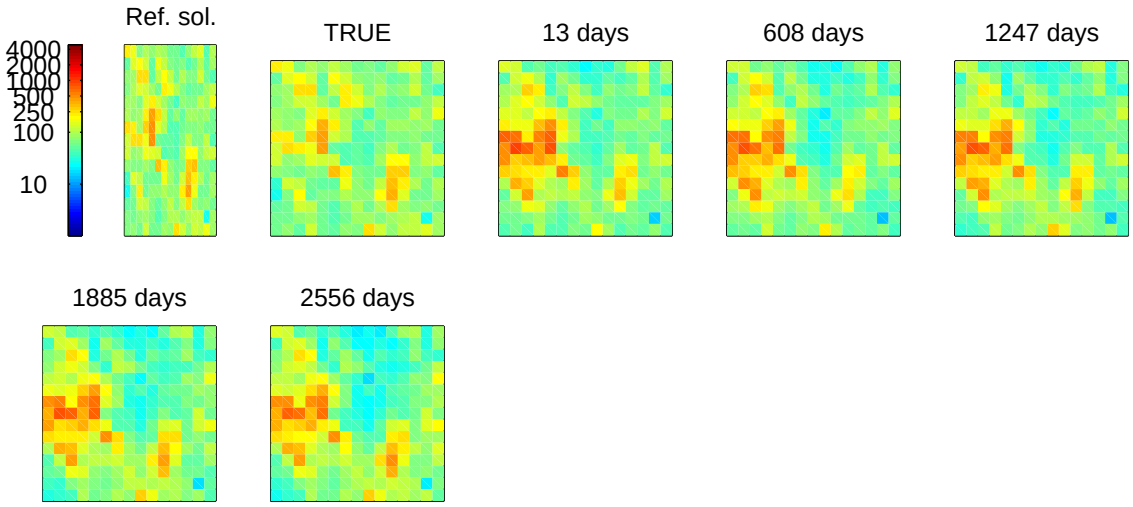

Figure 84: PERMX for ensemble member 2 for layer 10

22 PERMY for layer 1

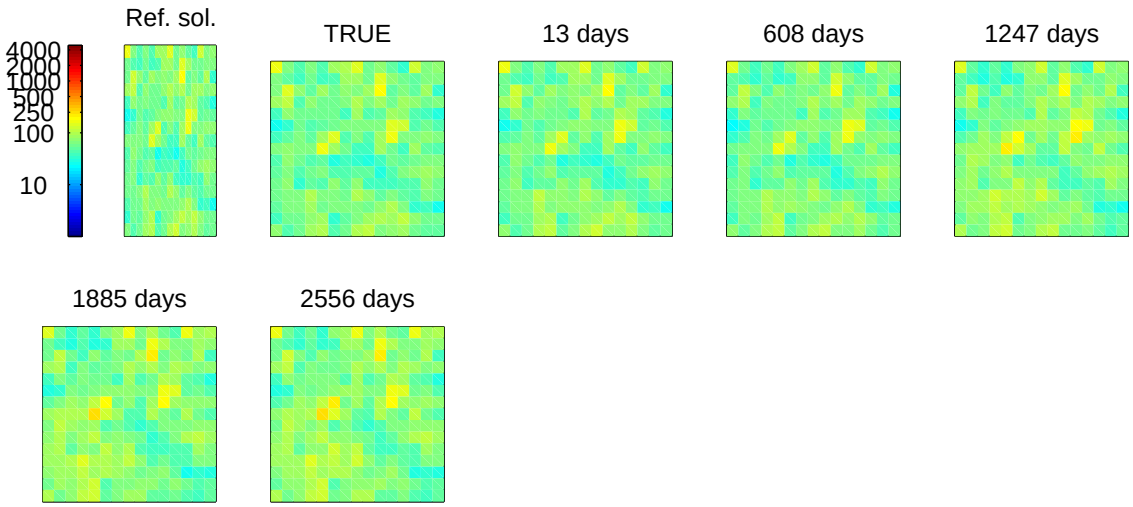

Figure 85: PERMY mean value for layer 1

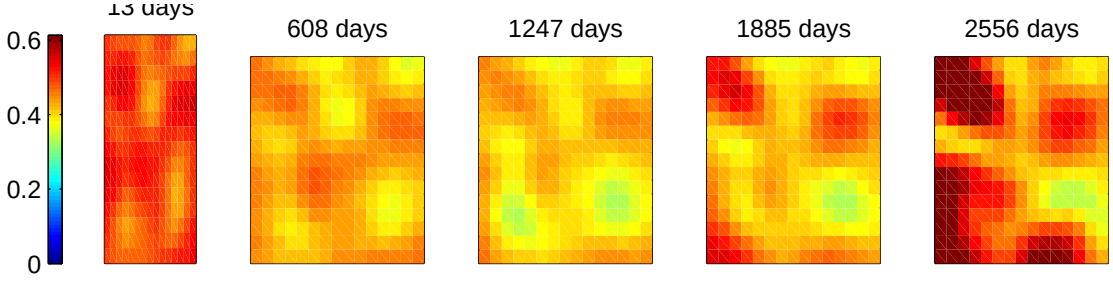

Figure 86: PERMY stadard deviation for layer 1

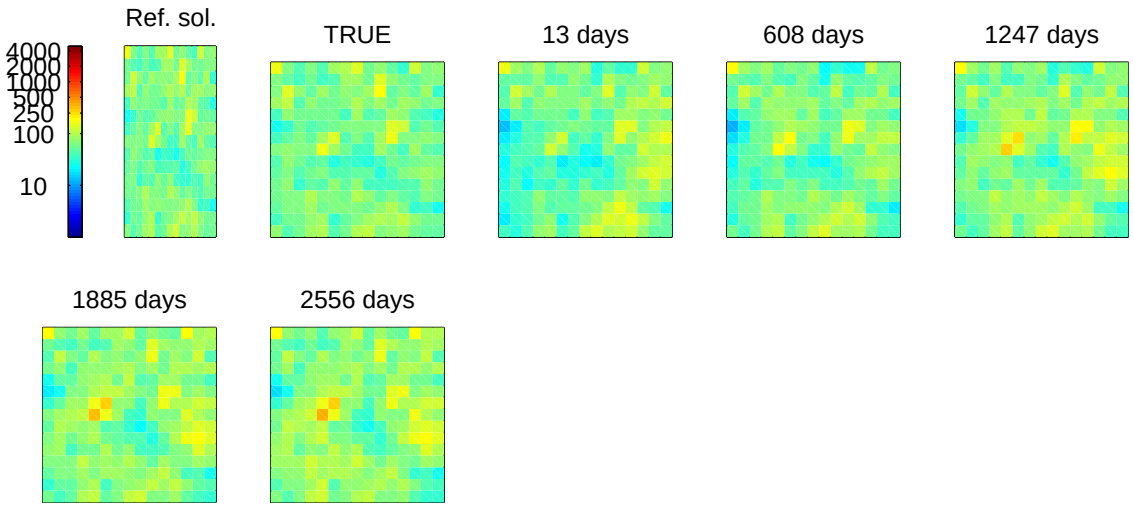

Figure 87: PERMY for ensemble member 1 for layer 1

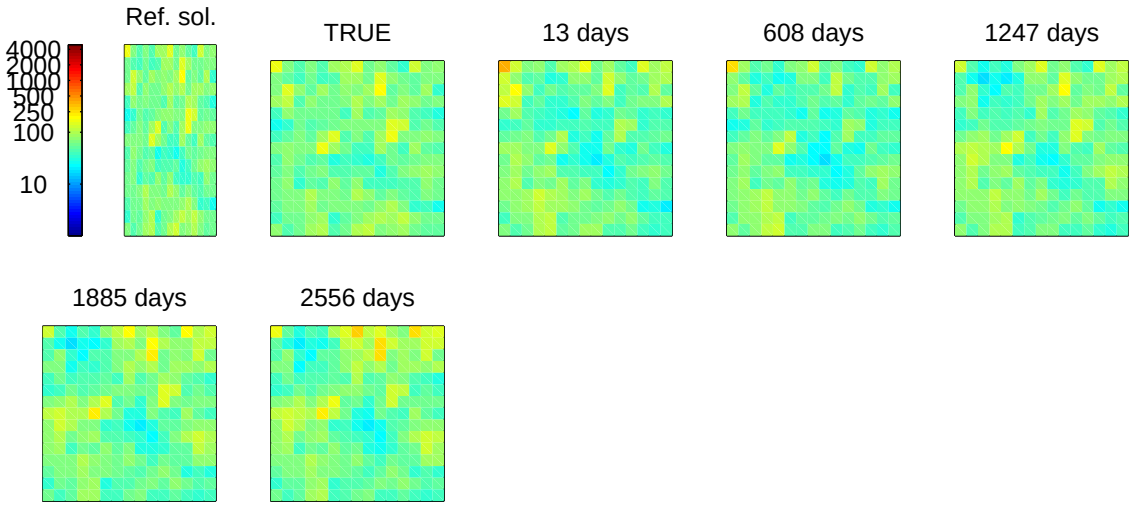

Figure 88: PERMY for ensemble member 2 for layer 1

23 PERMY for layer 2

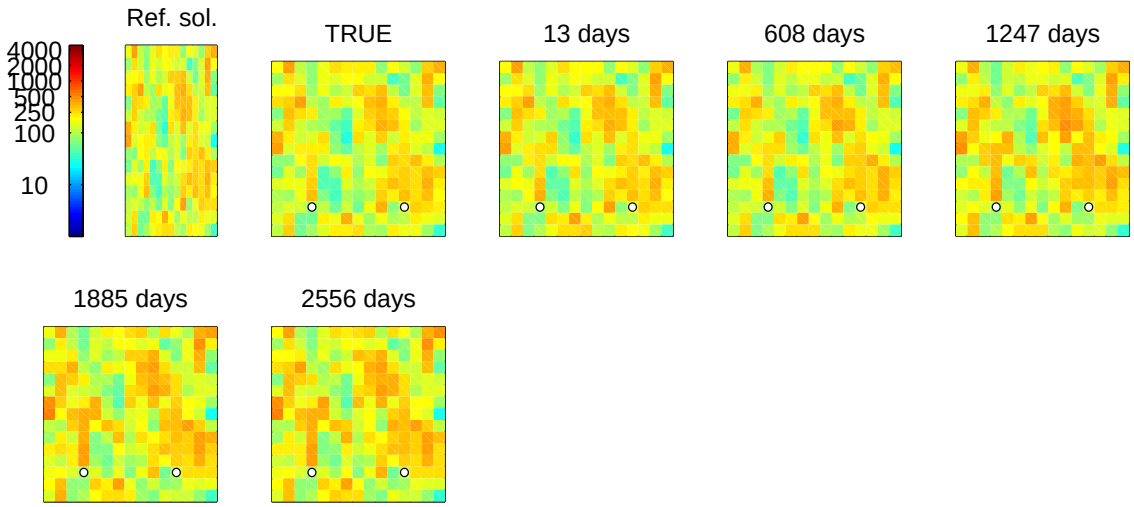

Figure 89: PERMY mean value for layer 2

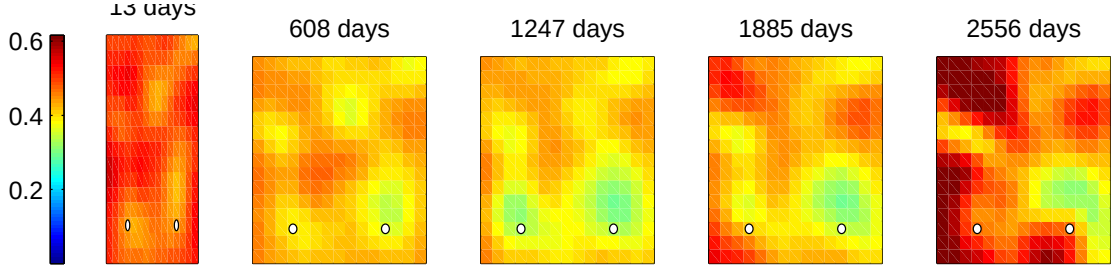

Figure 90: PERMY stadard deviation for layer 2

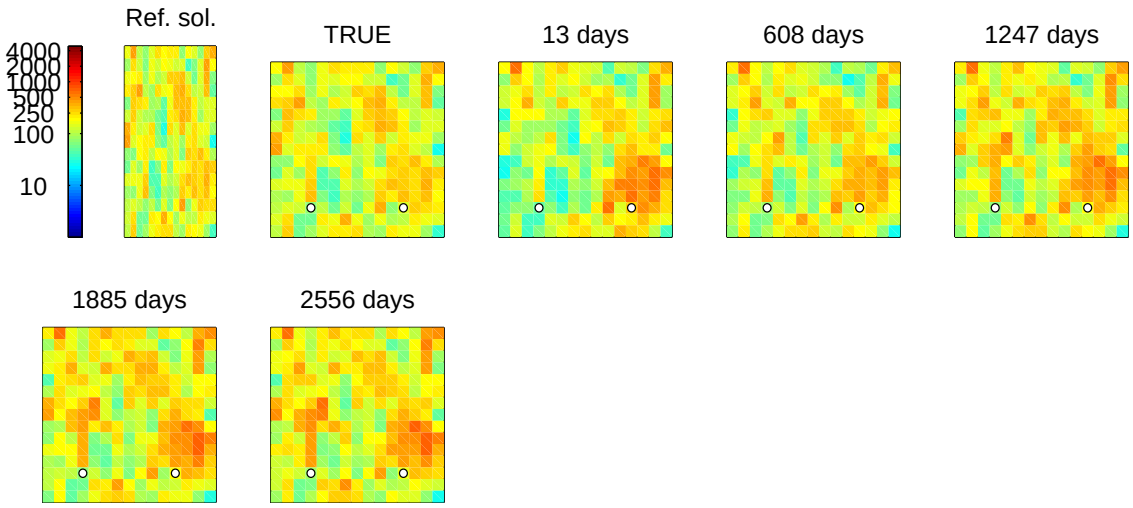

Figure 91: PERMY for ensemble member 1 for layer 2

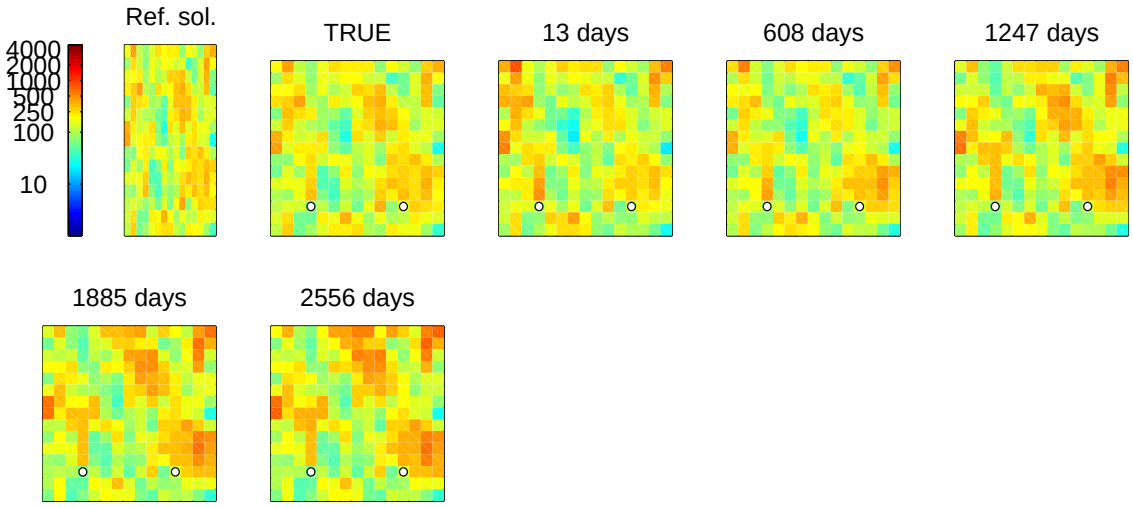

Figure 92: PERMY for ensemble member 2 for layer 2

24 PERMY for layer 3

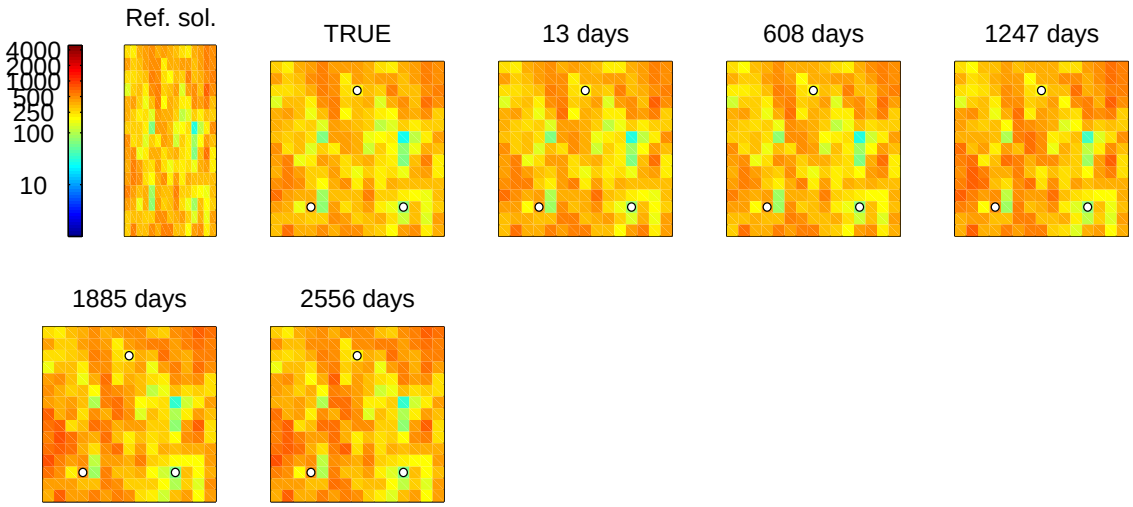

Figure 93: PERMY mean value for layer 3

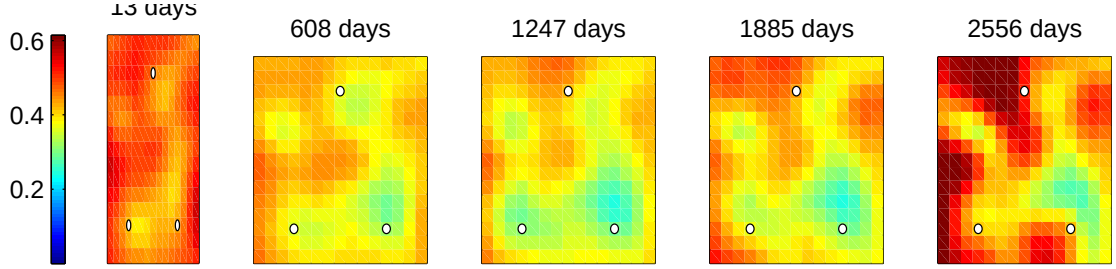

Figure 94: PERMY stadard deviation for layer 3

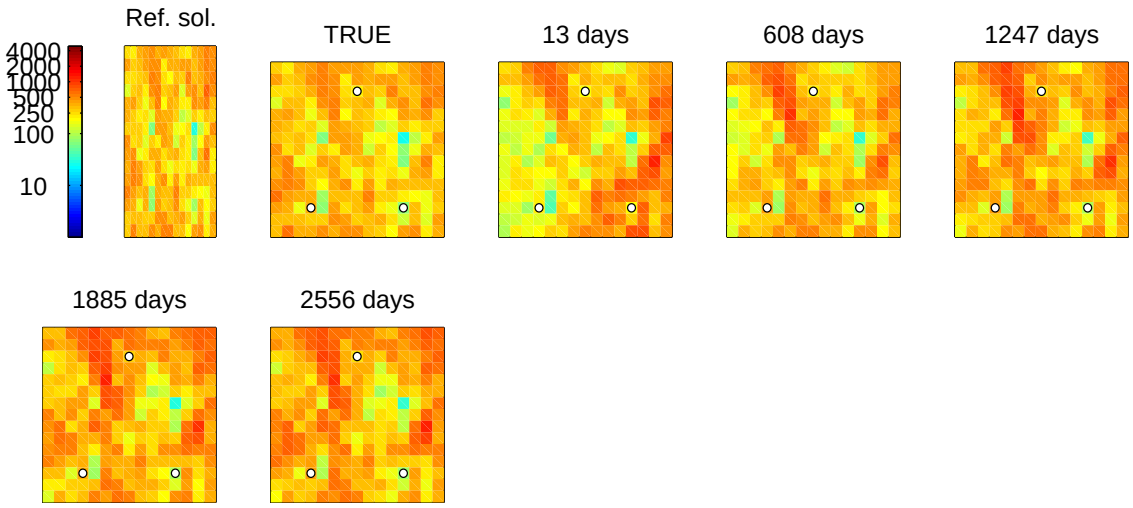

Figure 95: PERMY for ensemble member 1 for layer 3

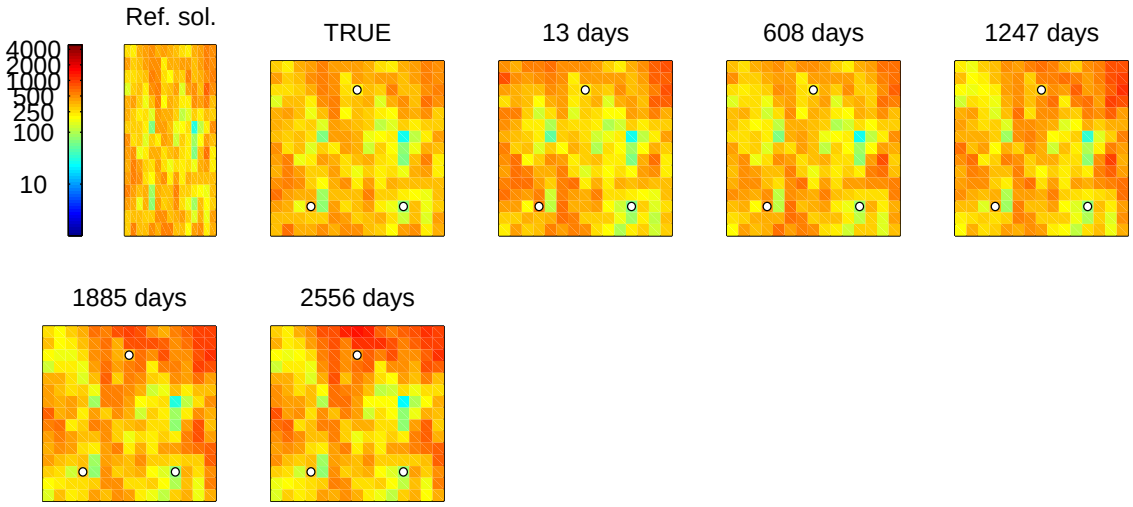

Figure 96: PERMY for ensemble member 2 for layer 3

25 PERMY for layer 4

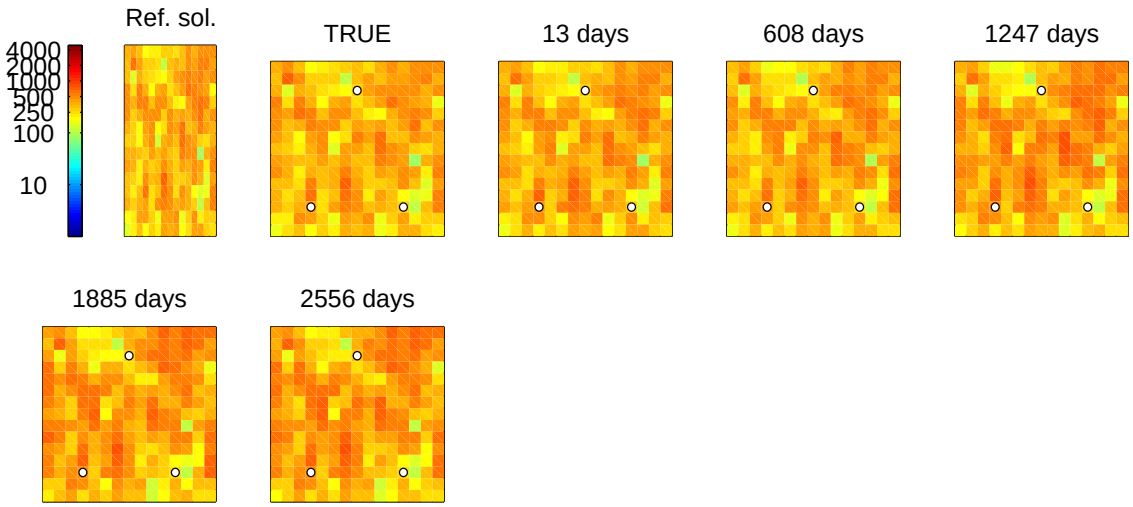

Figure 97: PERMY mean value for layer 4

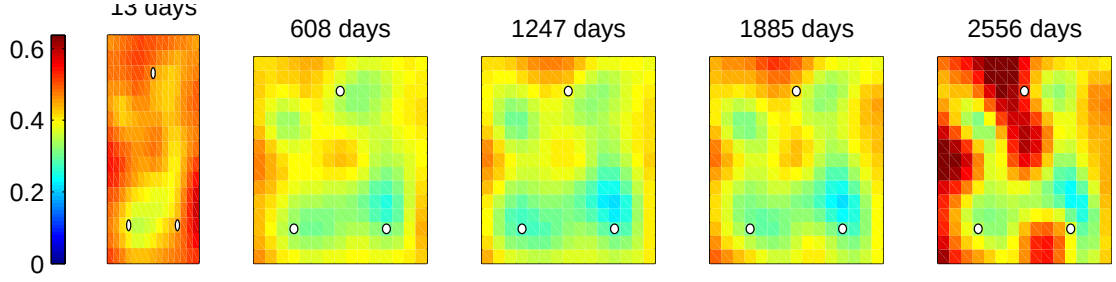

Figure 98: PERMY stadard deviation for layer 4

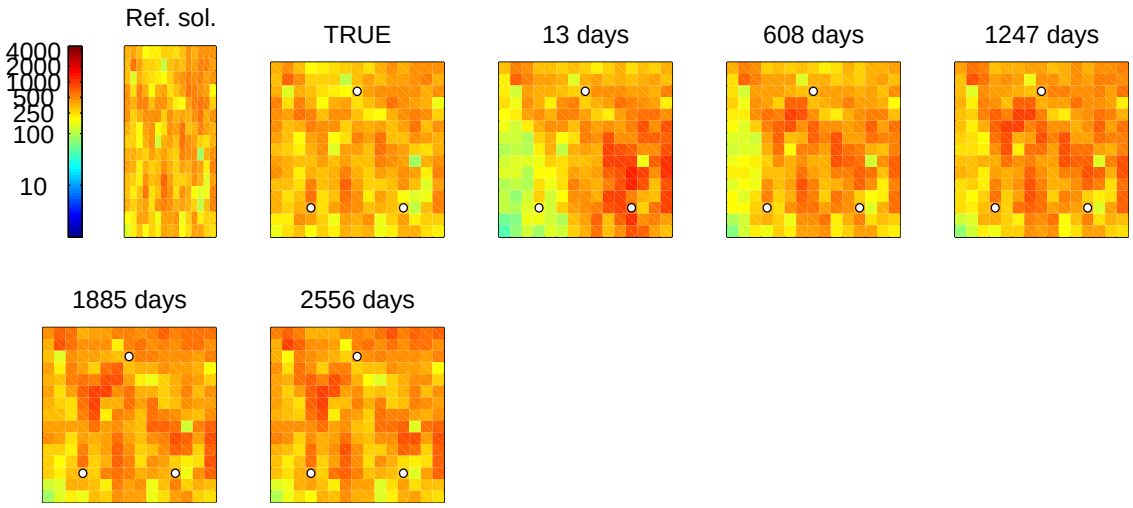

Figure 99: PERMY for ensemble member 1 for layer 4

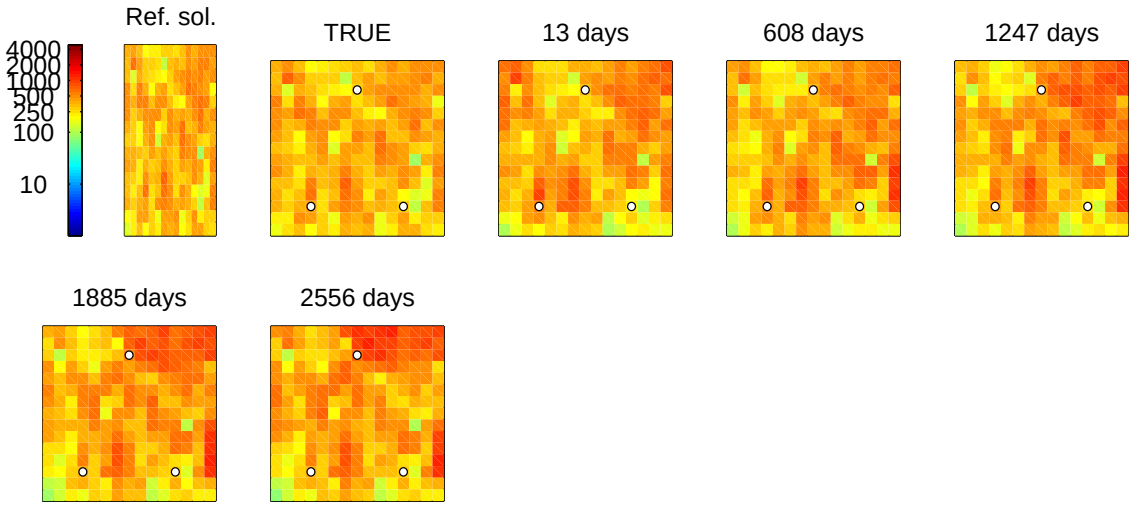

Figure 100: PERMY for ensemble member 2 for layer 4

26 PERMY for layer 5

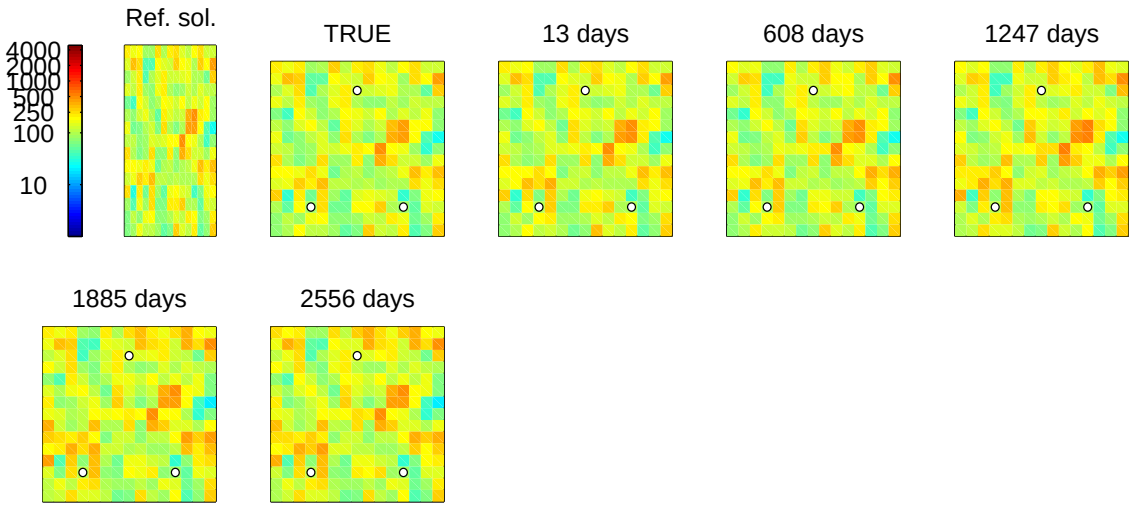

Figure 101: PERMY mean value for layer 5

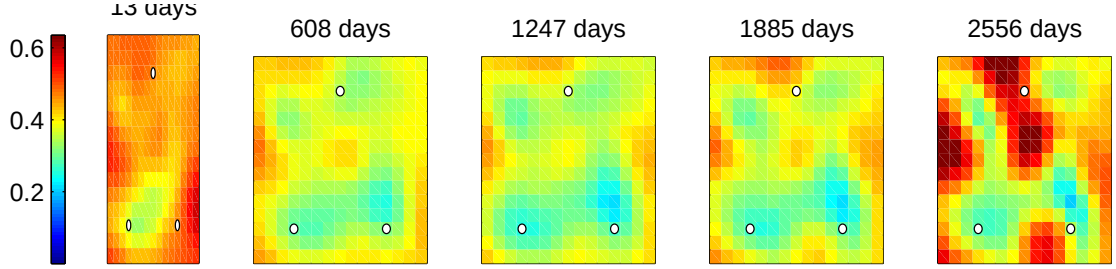

Figure 102: PERMY stadard deviation for layer 5

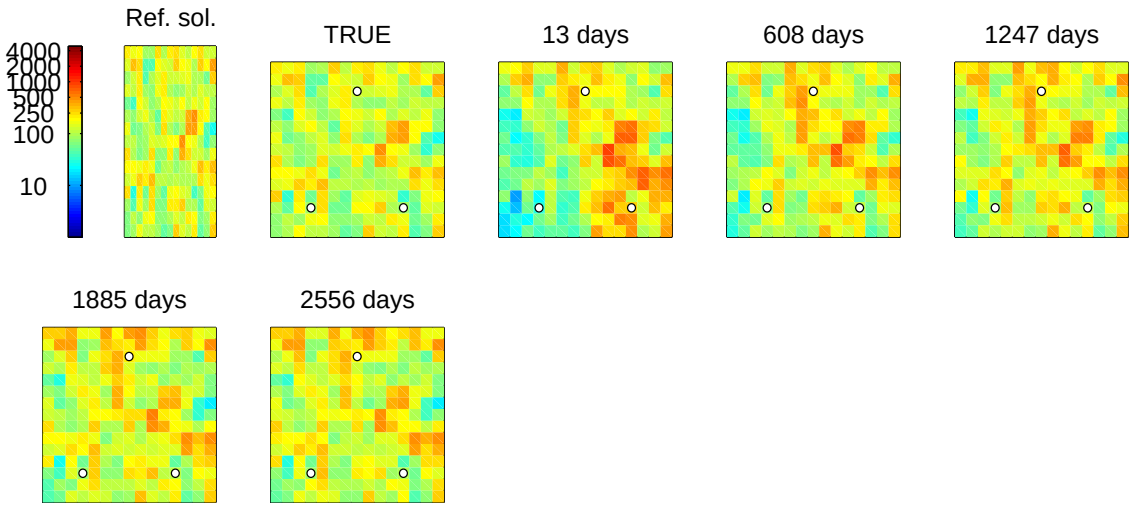

Figure 103: PERMY for ensemble member 1 for layer 5

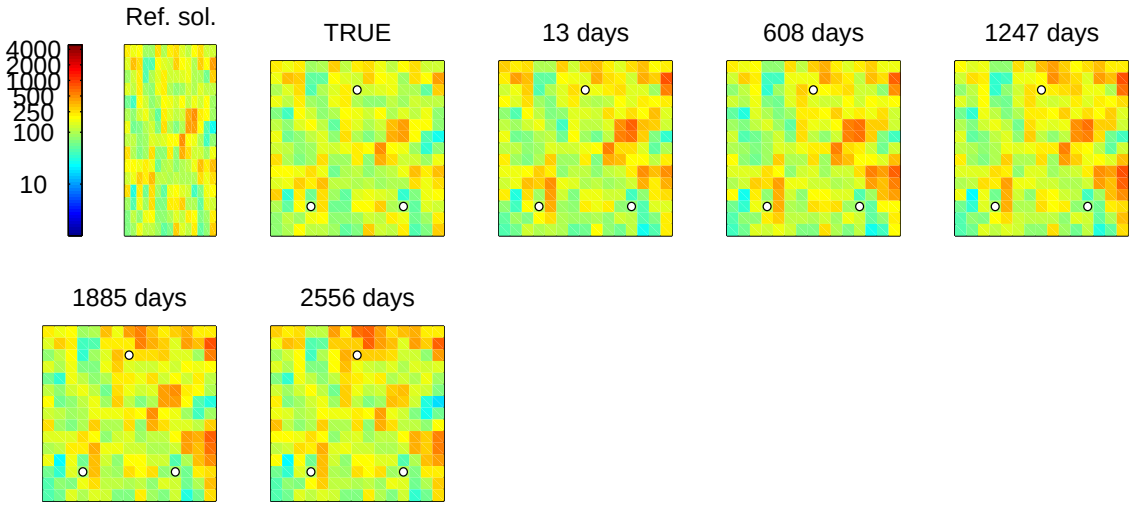

Figure 104: PERMY for ensemble member 2 for layer 5

27 PERMY for layer 6

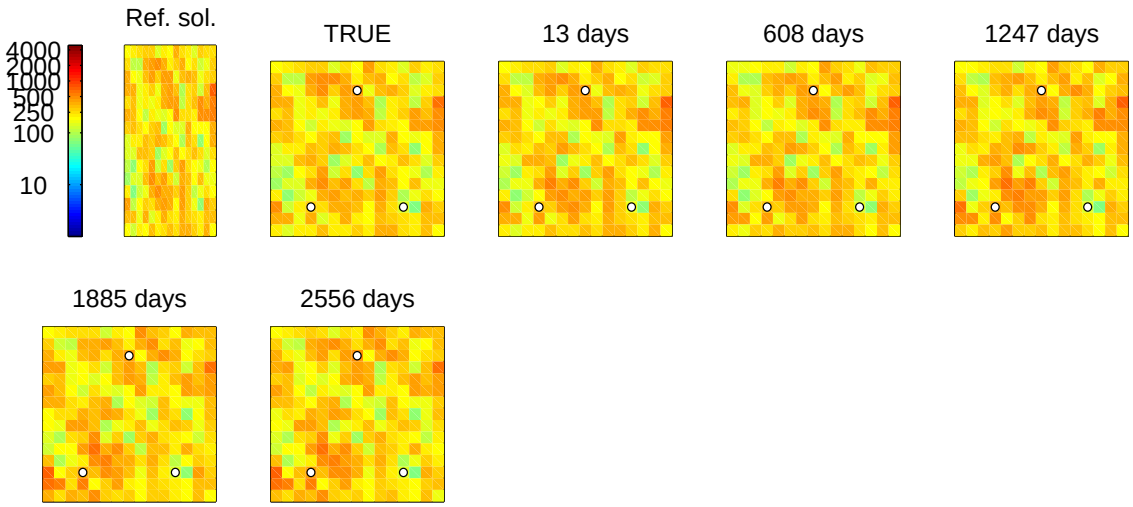

Figure 105: PERMY mean value for layer 6

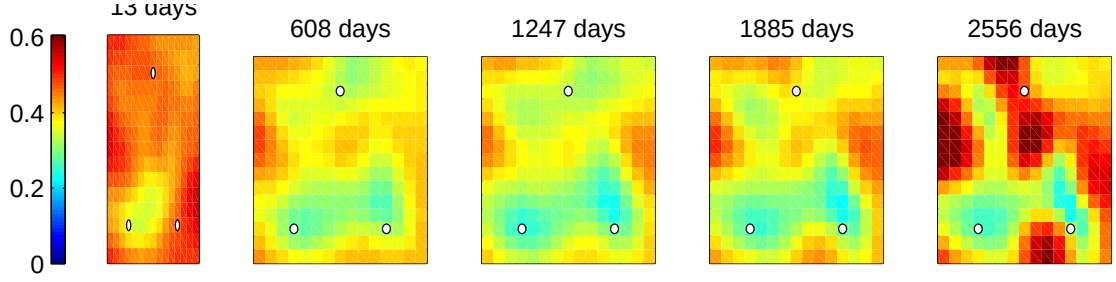

Figure 106: PERMY stadard deviation for layer 6

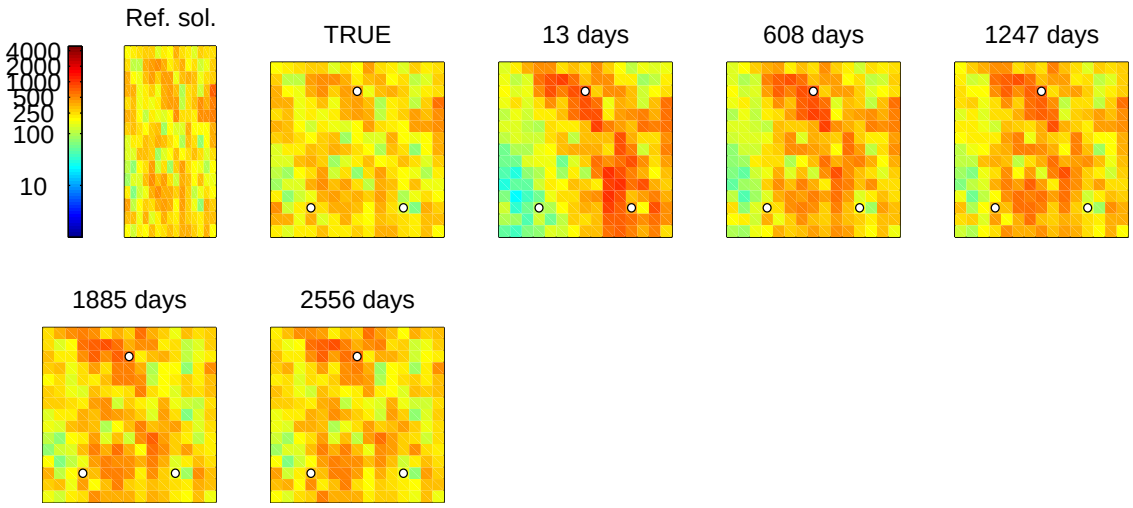

Figure 107: PERMY for ensemble member 1 for layer 6

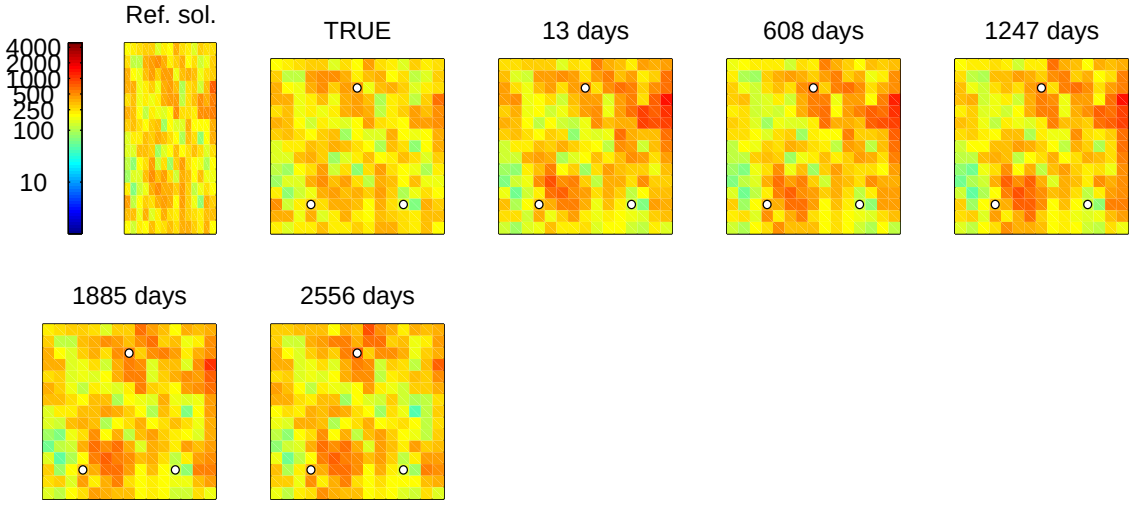

Figure 108: PERMY for ensemble member 2 for layer 6

28 PERMY for layer 7

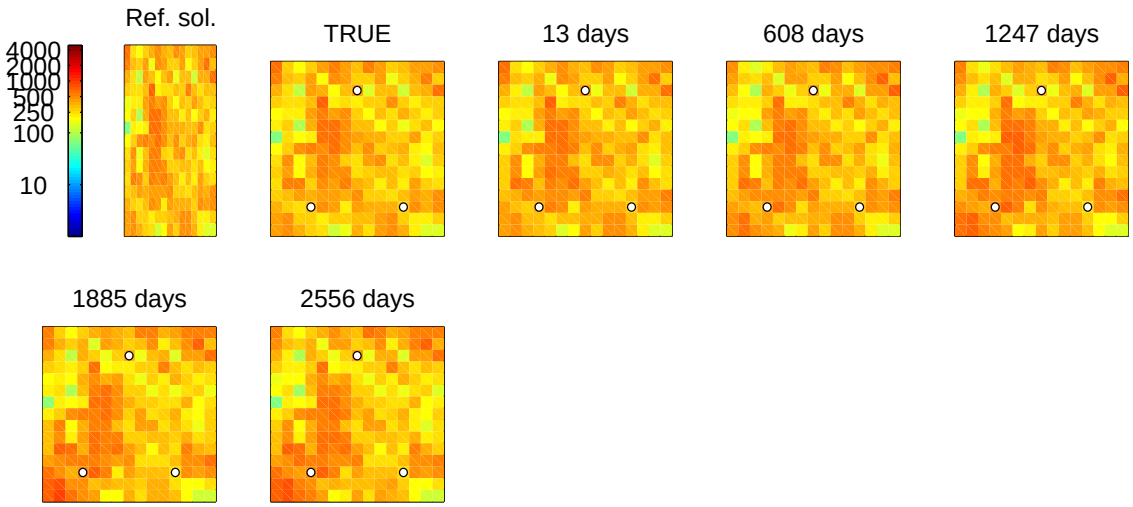

Figure 109: PERMY mean value for layer 7

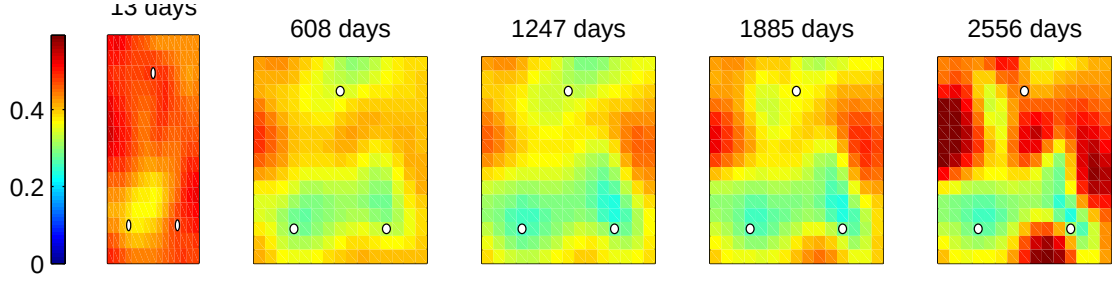

Figure 110: PERMY stadard deviation for layer 7

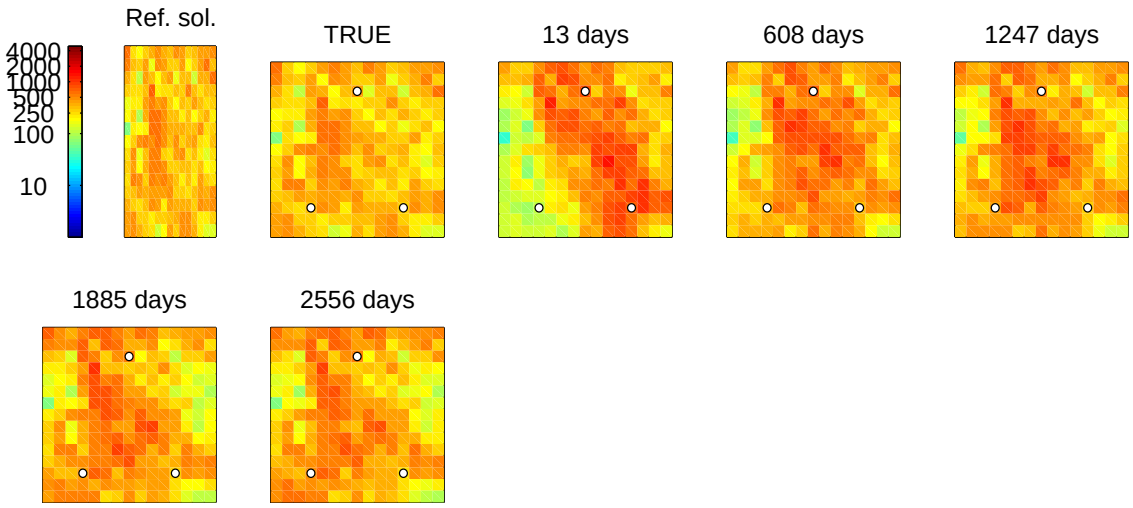

Figure 111: PERMY for ensemble member 1 for layer 7

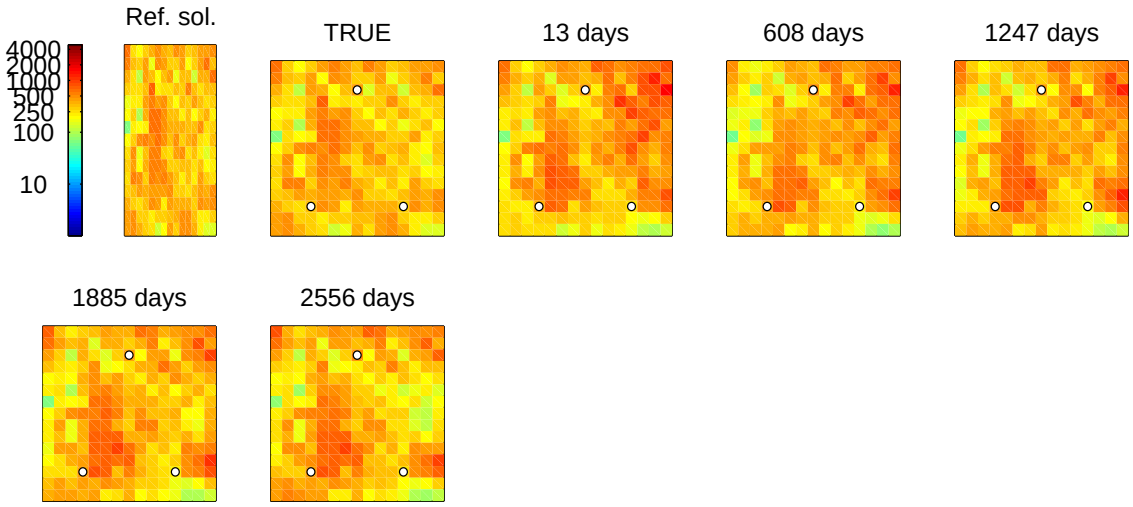

Figure 112: PERMY for ensemble member 2 for layer 7

29 PERMY for layer 8

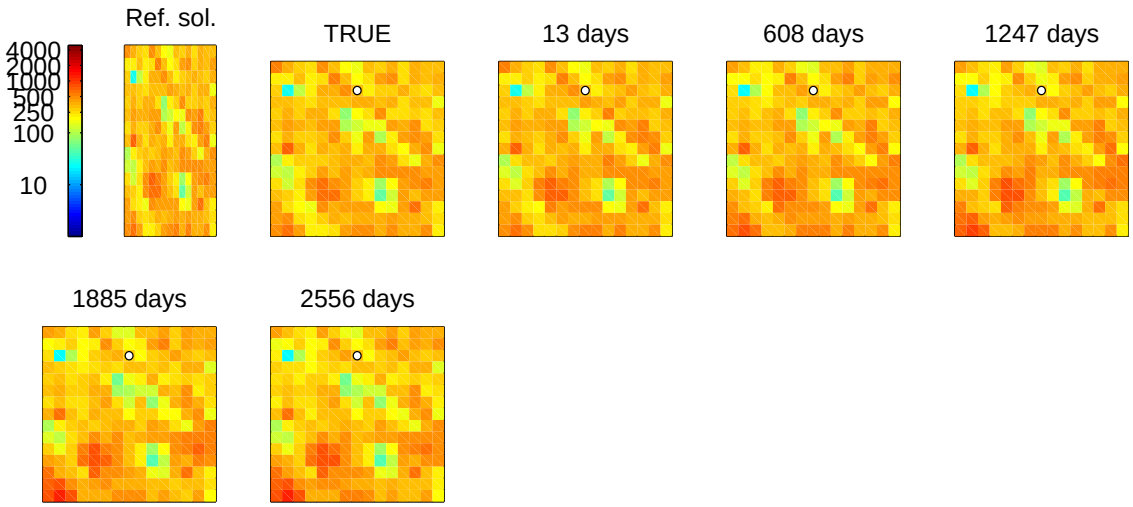

Figure 113: PERMY mean value for layer 8

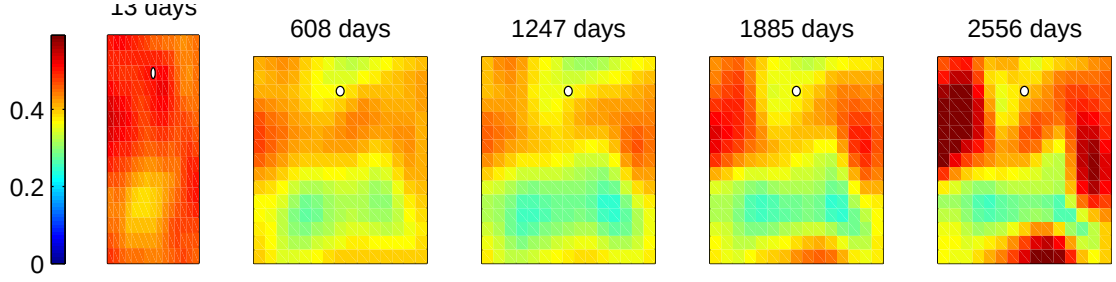

Figure 114: PERMY stadard deviation for layer 8

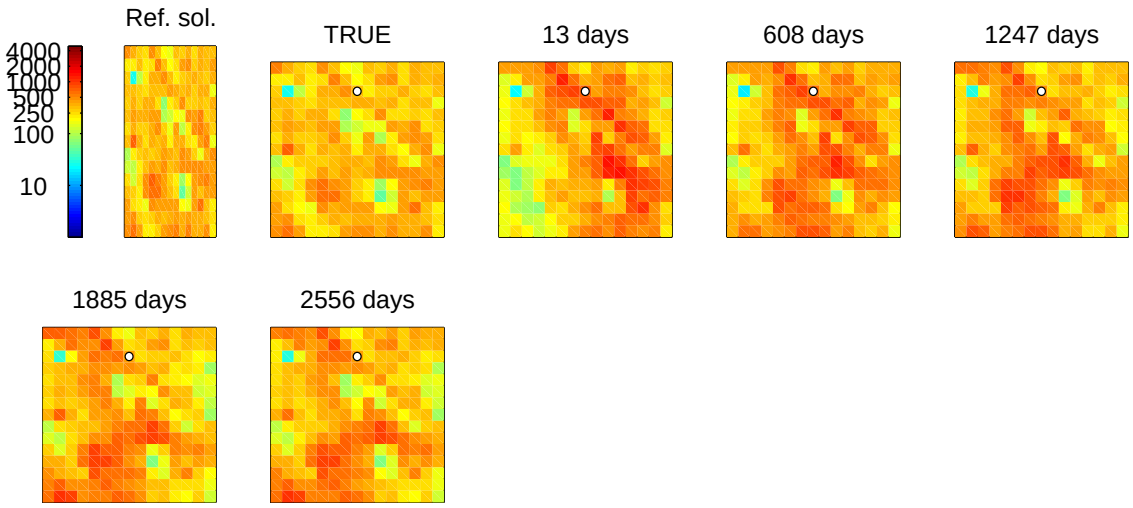

Figure 115: PERMY for ensemble member 1 for layer 8

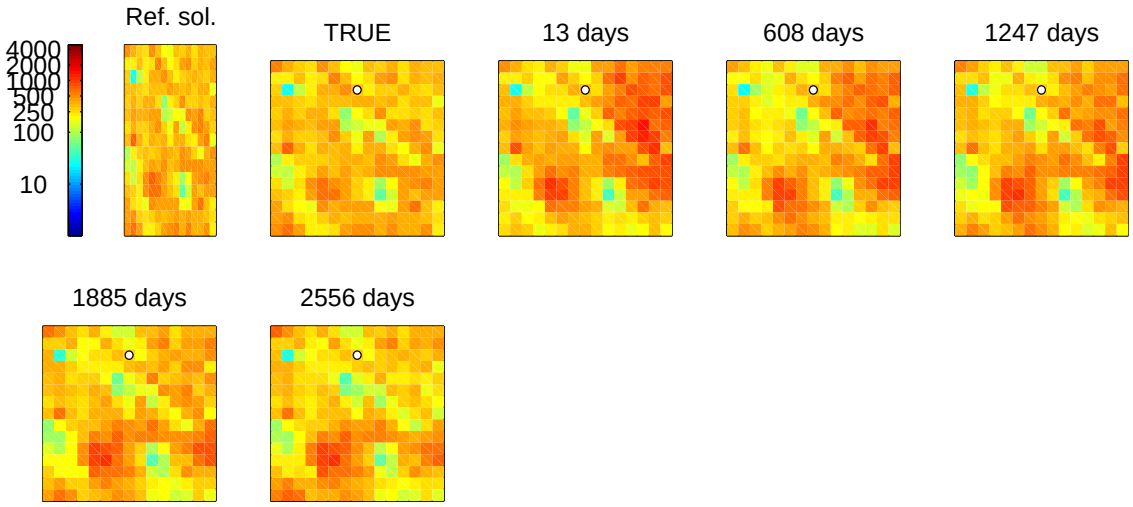

Figure 116: PERMY for ensemble member 2 for layer 8

30 PERMY for layer 9

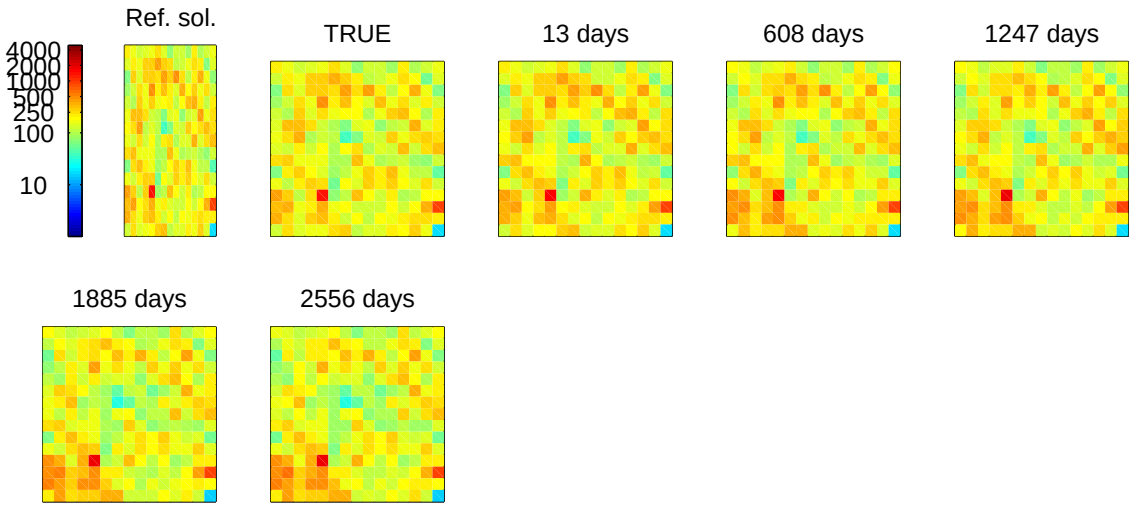

Figure 117: PERMY mean value for layer 9

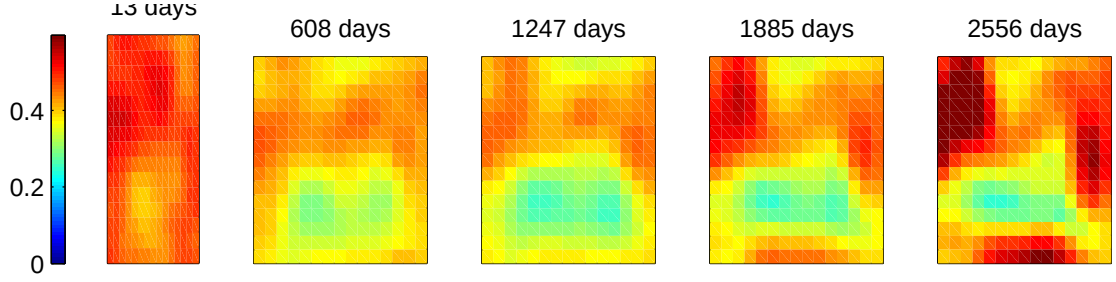

Figure 118: PERMY stadard deviation for layer 9

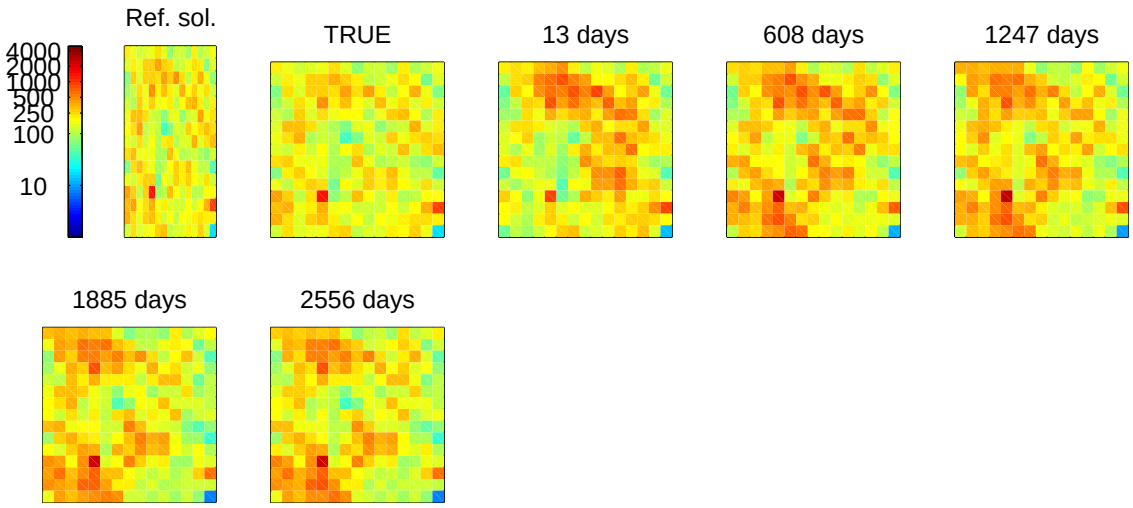

Figure 119: PERMY for ensemble member 1 for layer 9

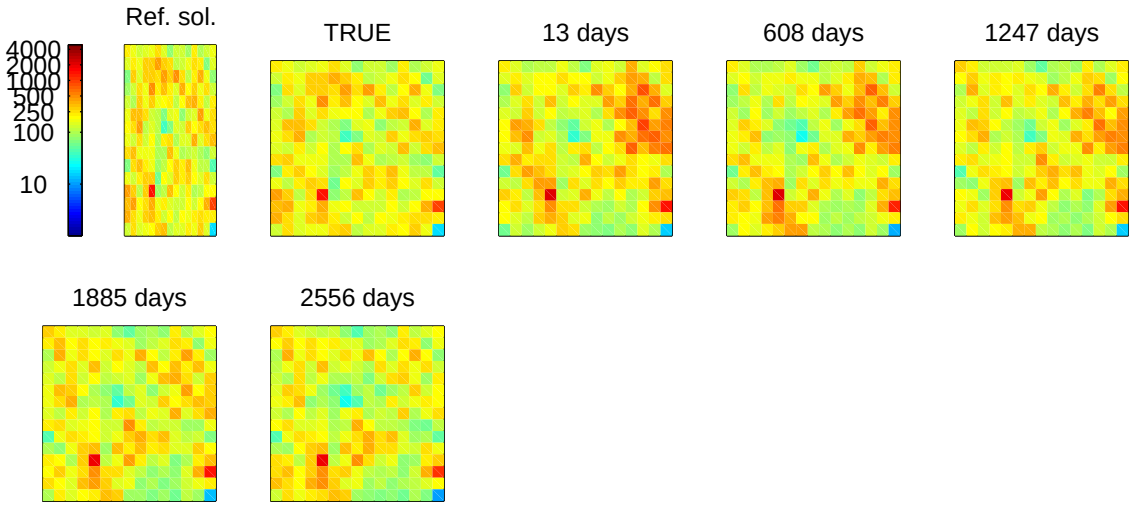

Figure 120: PERMY for ensemble member 2 for layer 9

31 PERMY for layer 10

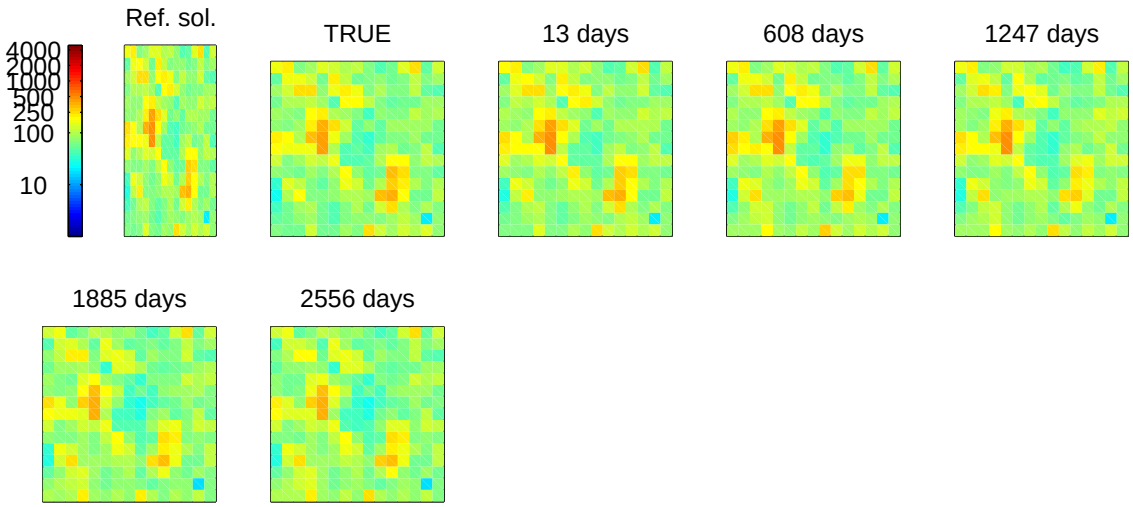

Figure 121: PERMY mean value for layer 10

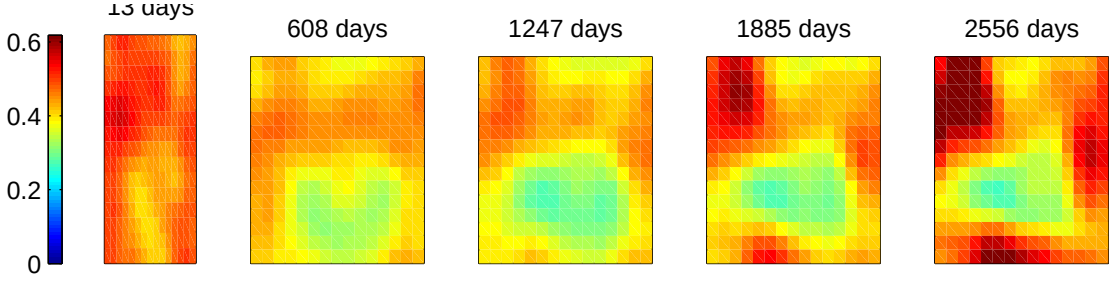

Figure 122: PERMY stadard deviation for layer 10

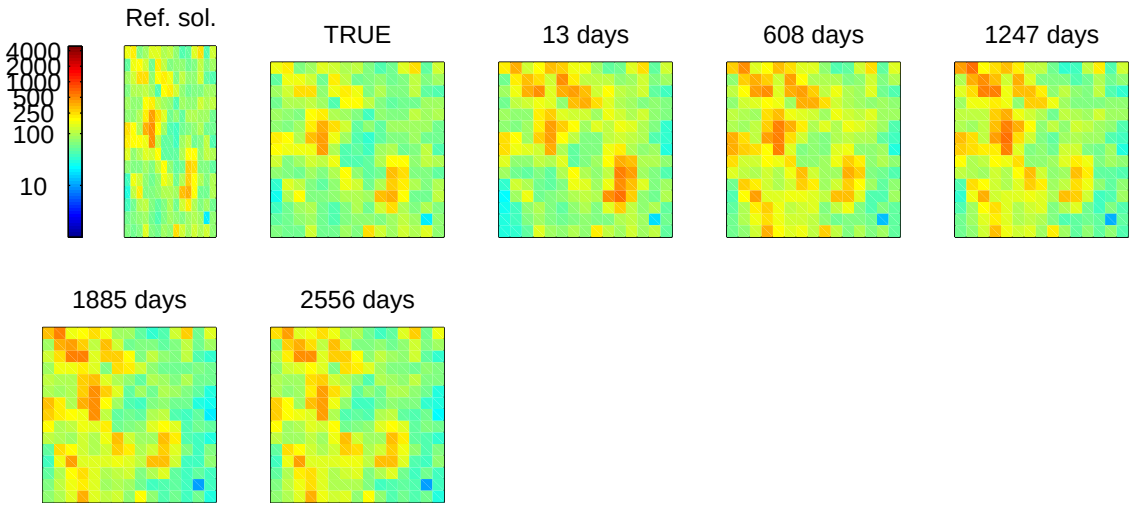

Figure 123: PERMY for ensemble member 1 for layer 10

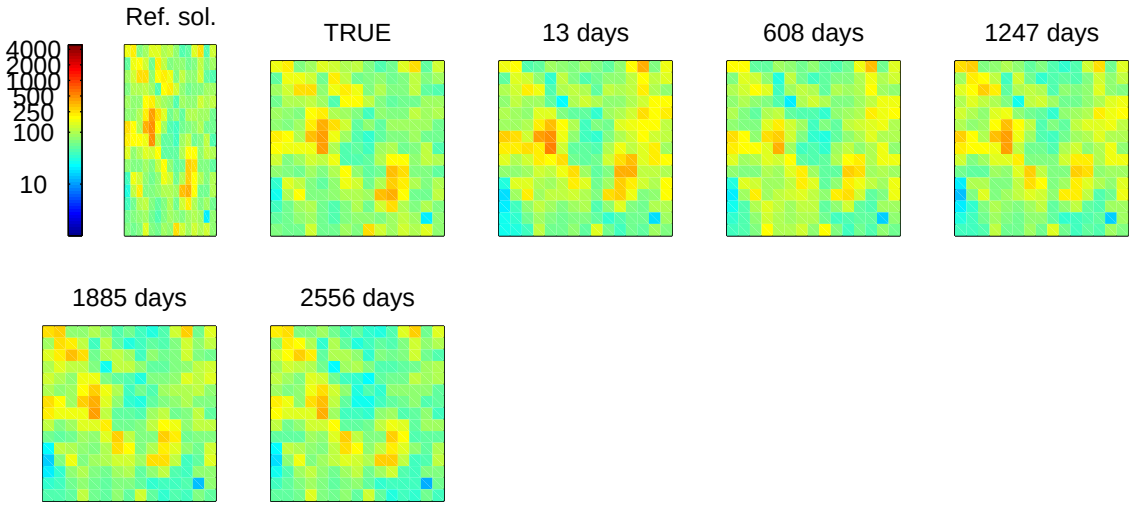

Figure 124: PERMY for ensemble member 2 for layer 10

32 PERMZ for layer 1

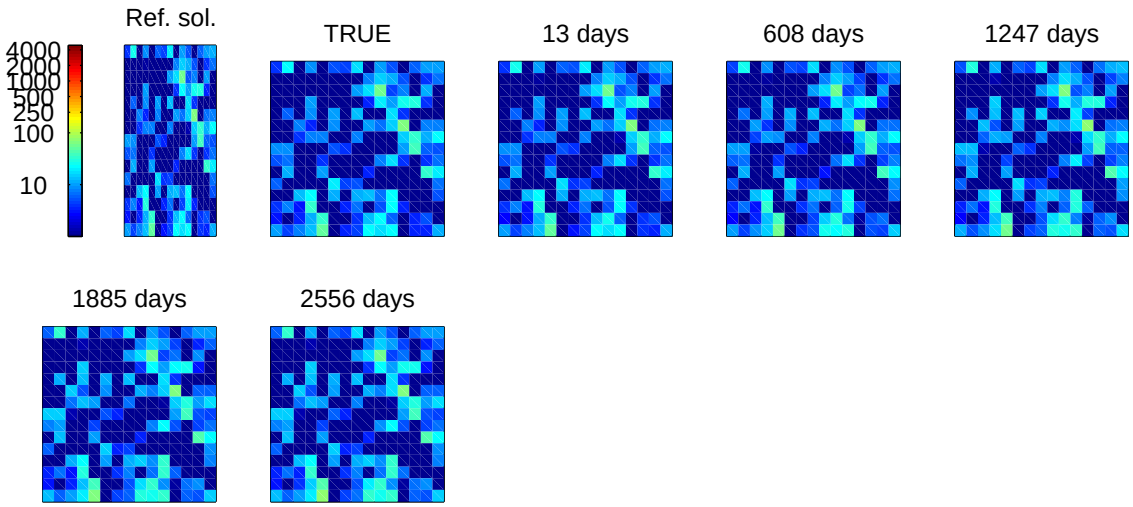

Figure 125: PERMZ mean value for layer 1

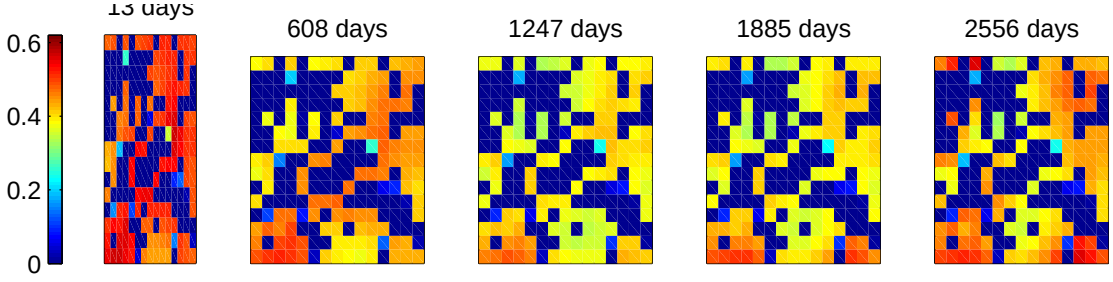

Figure 126: PERMZ stadard deviation for layer 1

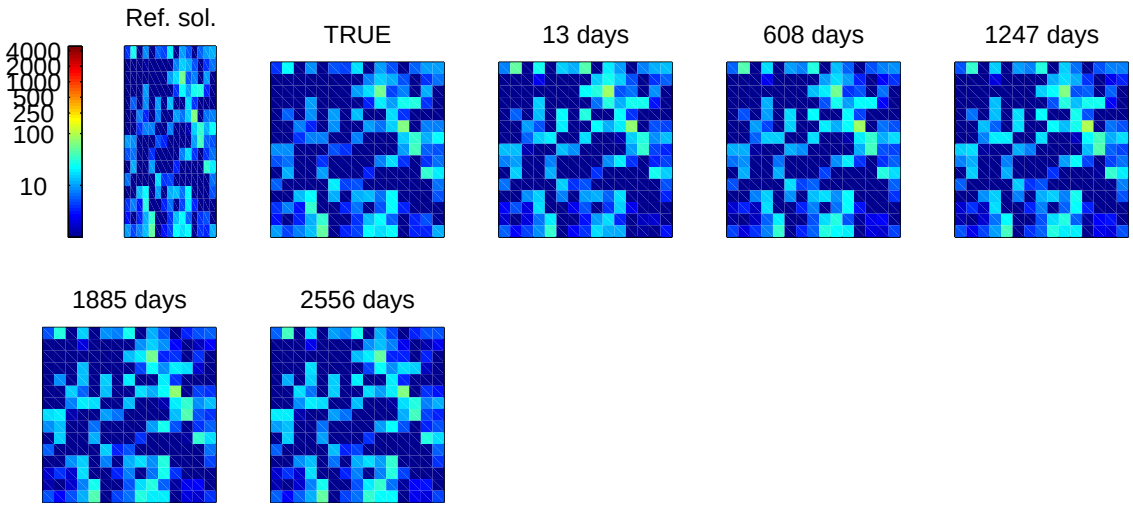

Figure 127: PERMZ for ensemble member 1 for layer 1

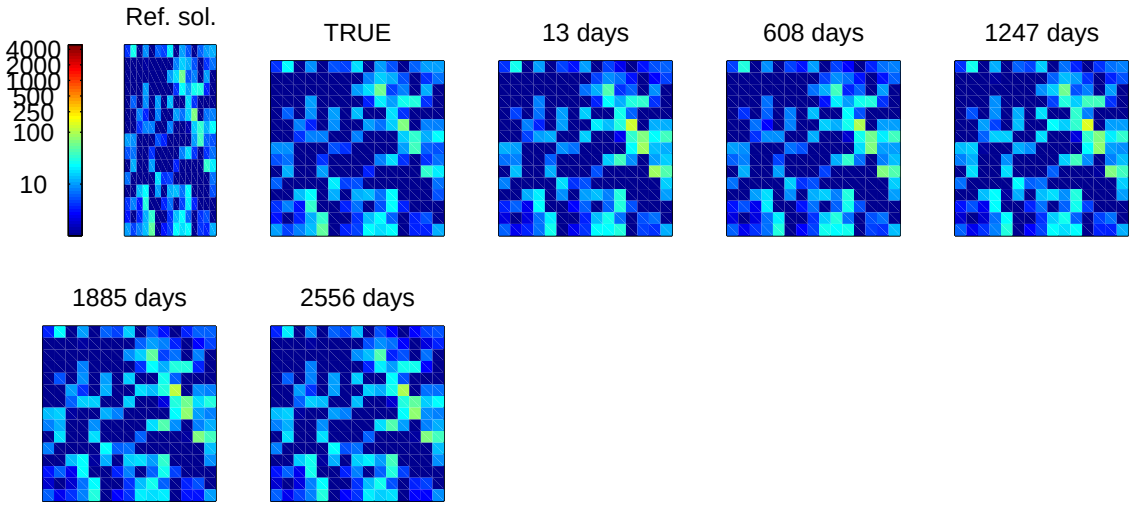

Figure 128: PERMZ for ensemble member 2 for layer 1

33 PERMZ for layer 2

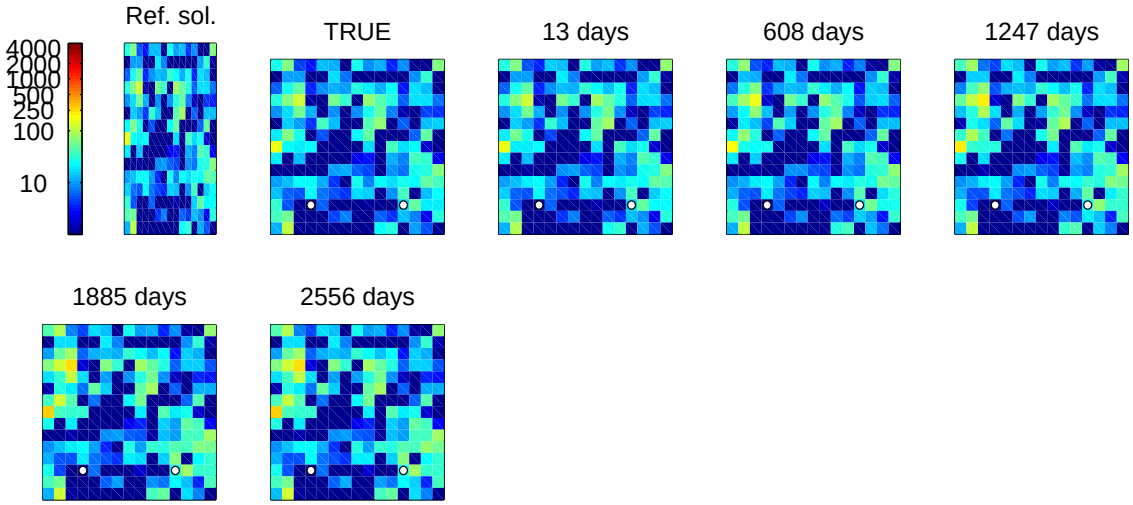

Figure 129: PERMZ mean value for layer 2

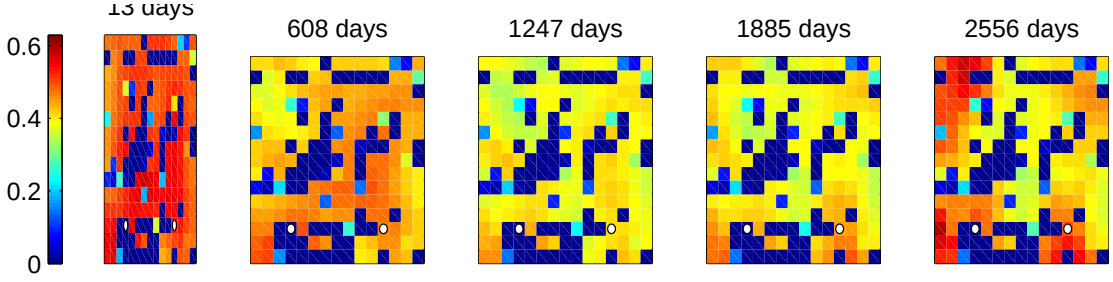

Figure 130: PERMZ stadard deviation for layer 2

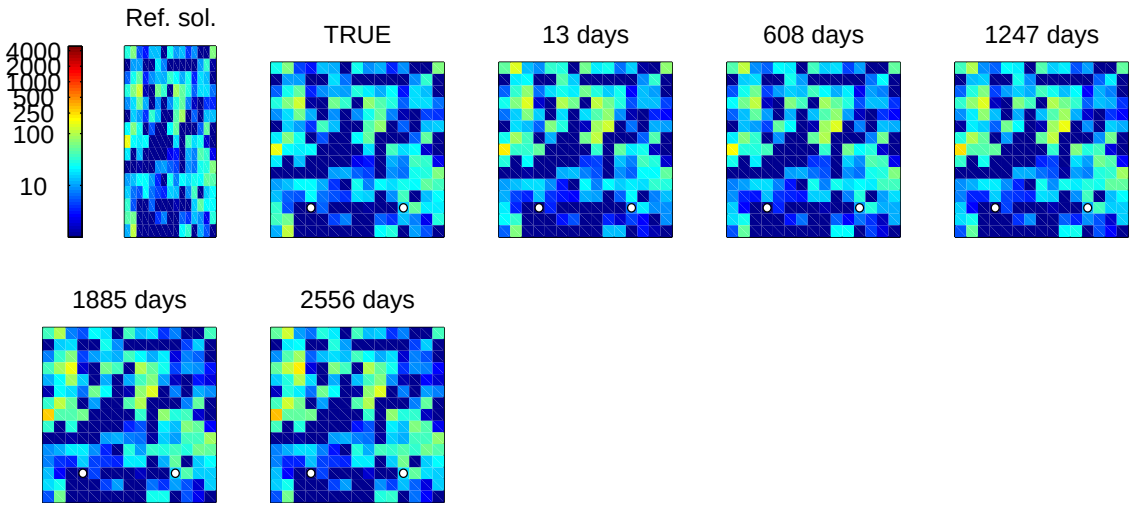

Figure 131: PERMZ for ensemble member 1 for layer 2

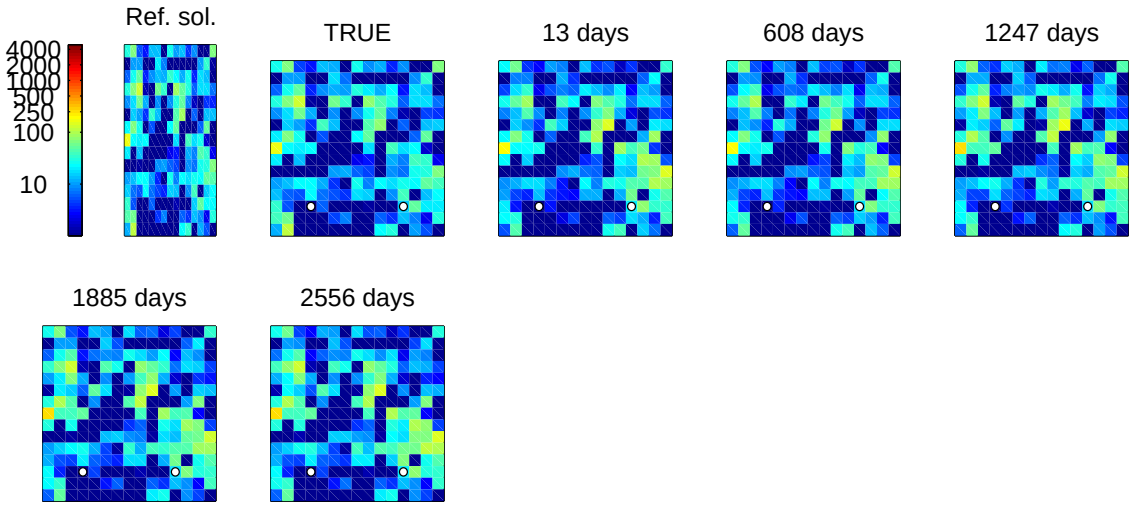

Figure 132: PERMZ for ensemble member 2 for layer 2

34 PERMZ for layer 3

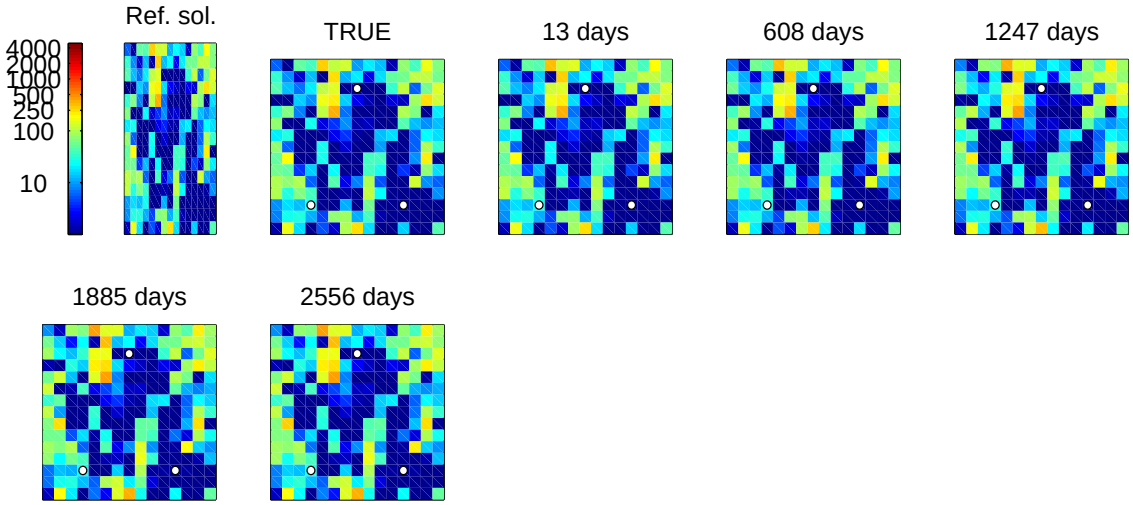

Figure 133: PERMZ mean value for layer 3

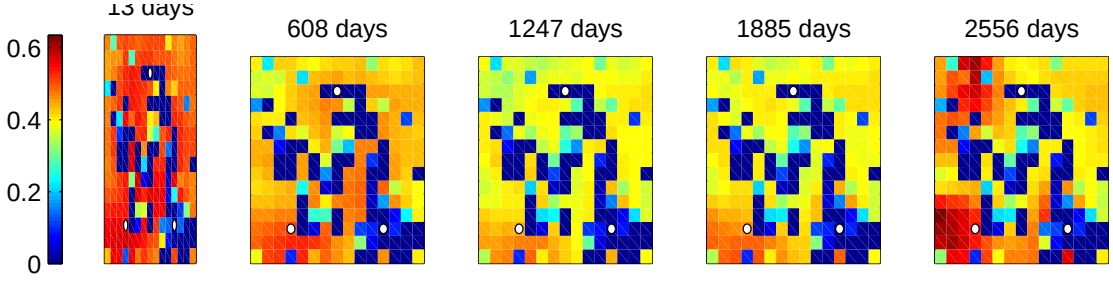

Figure 134: PERMZ stadard deviation for layer 3

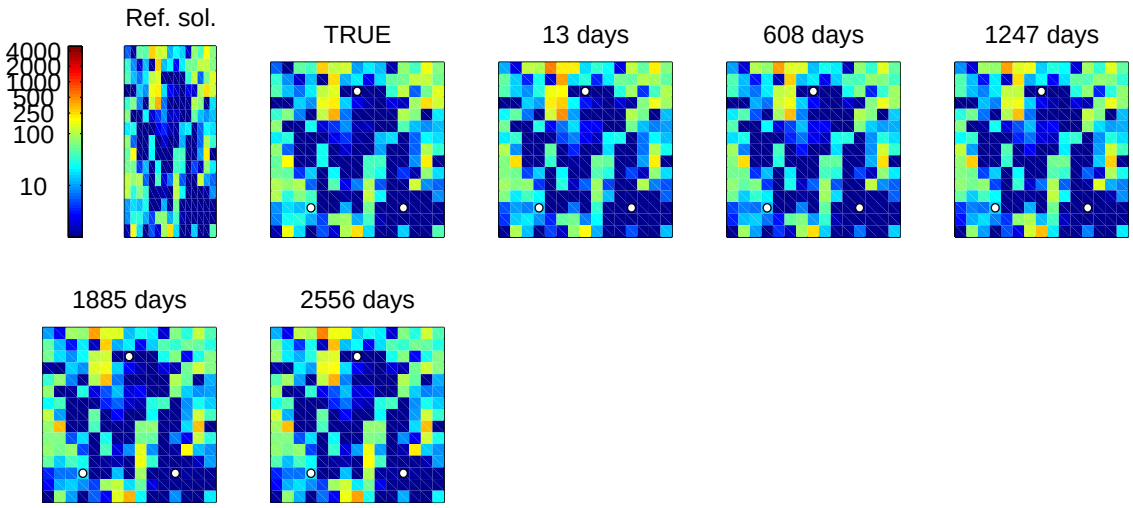

Figure 135: PERMZ for ensemble member 1 for layer 3

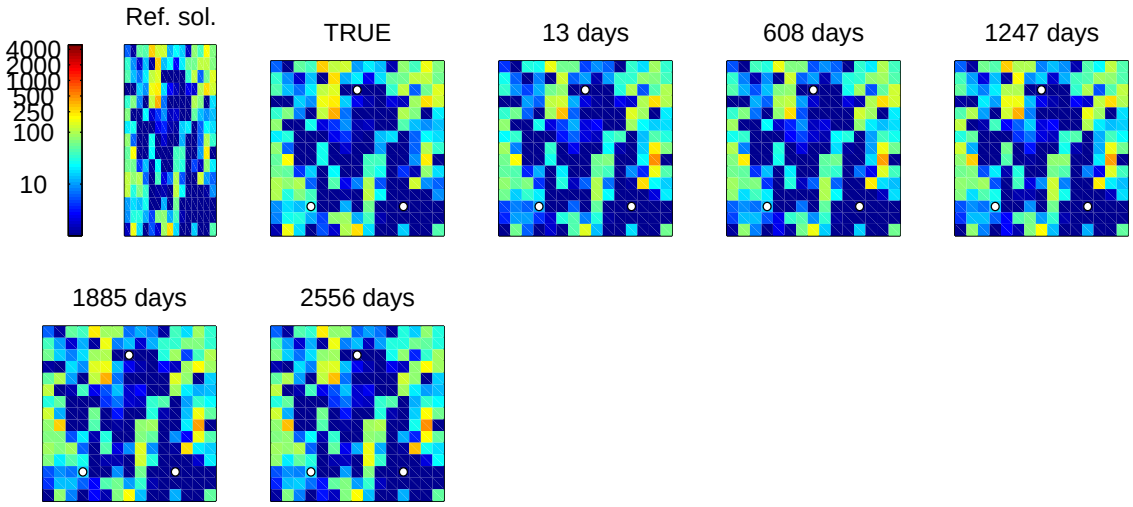

Figure 136: PERMZ for ensemble member 2 for layer 3

35 PERMZ for layer 4

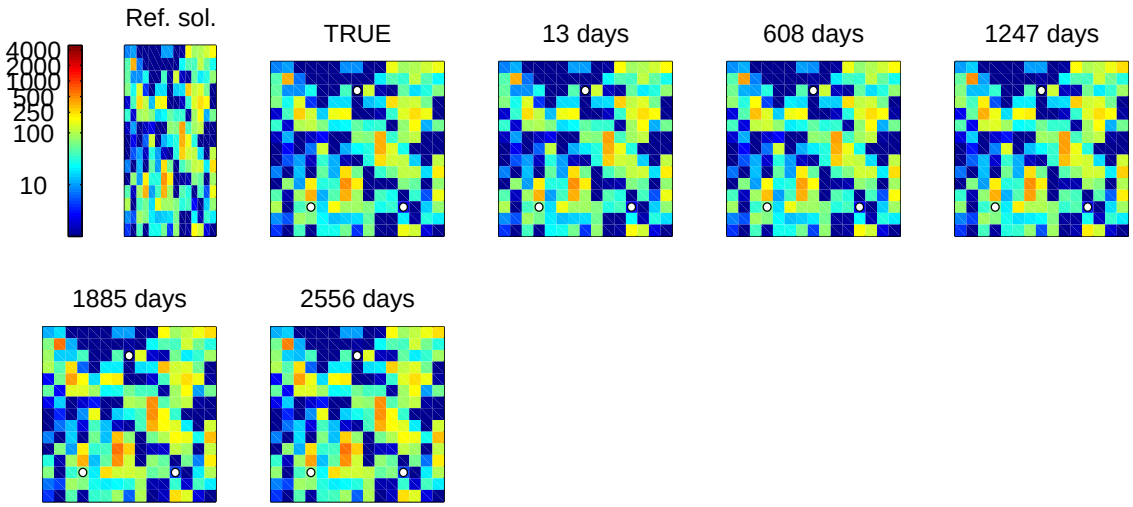

Figure 137: PERMZ mean value for layer 4

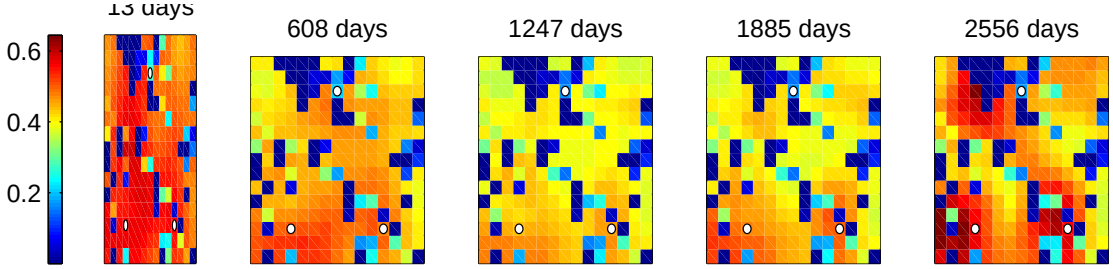

Figure 138: PERMZ stadard deviation for layer 4

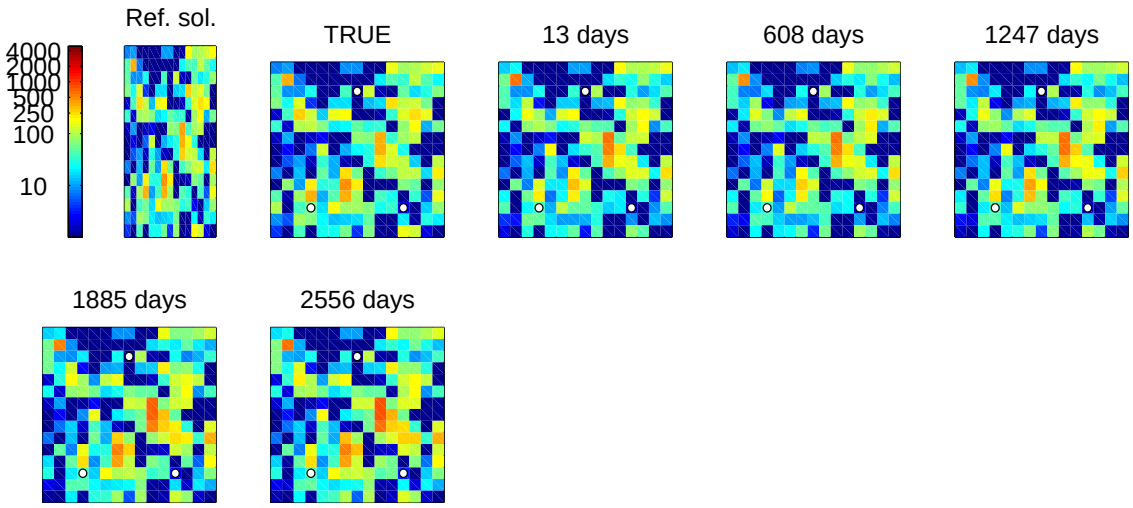

Figure 139: PERMZ for ensemble member 1 for layer 4

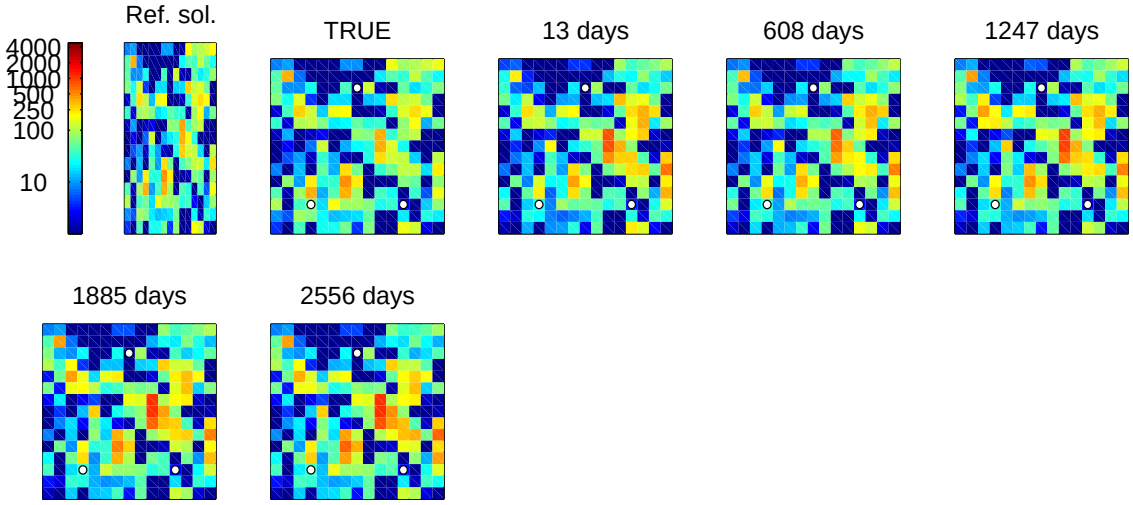

Figure 140: PERMZ for ensemble member 2 for layer 4

36 PERMZ for layer 5

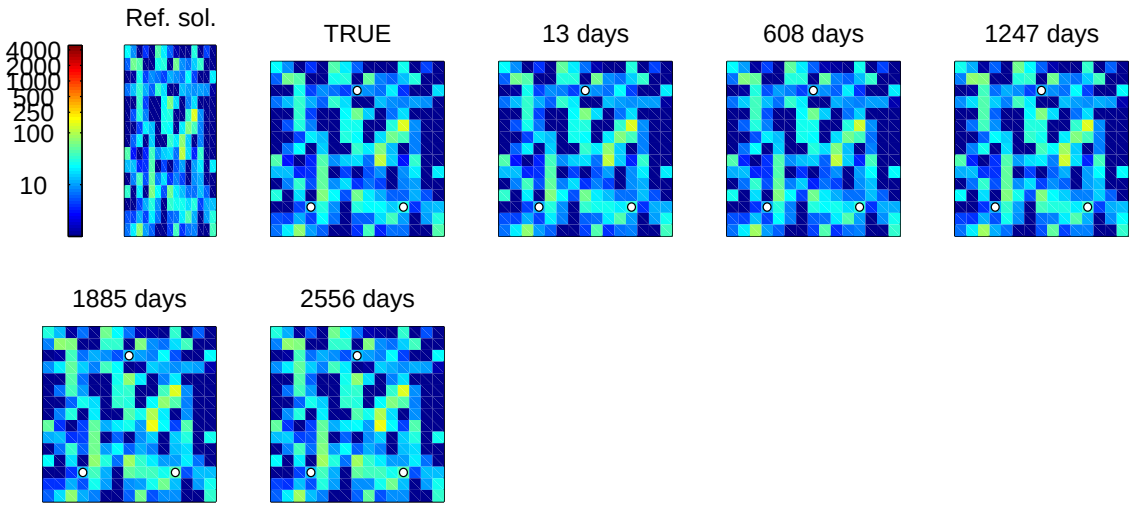

Figure 141: PERMZ mean value for layer 5

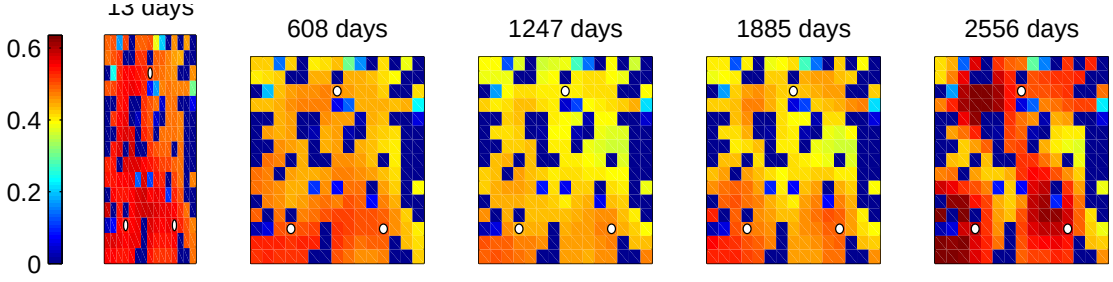

Figure 142: PERMZ stadard deviation for layer 5

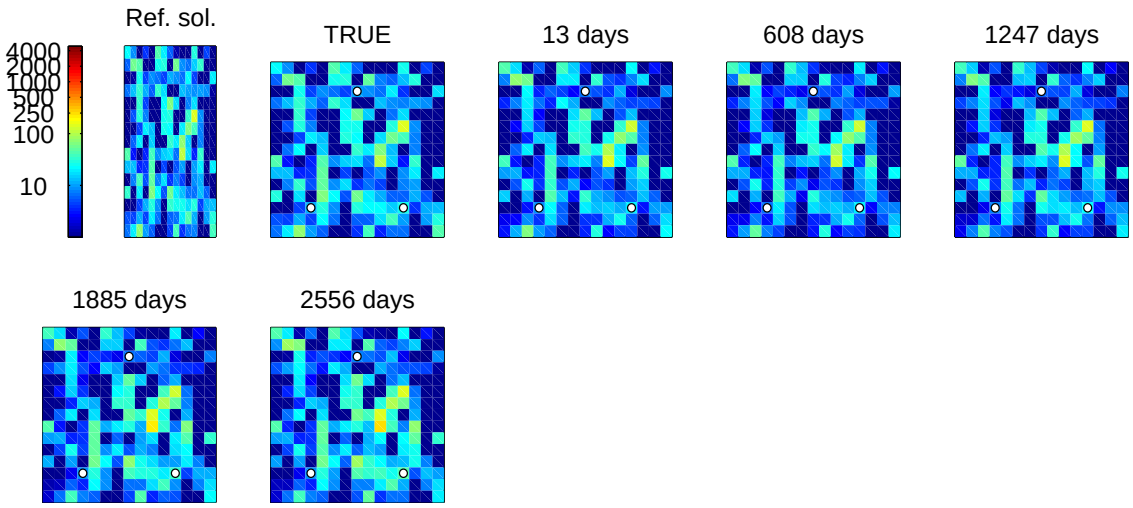

Figure 143: PERMZ for ensemble member 1 for layer 5

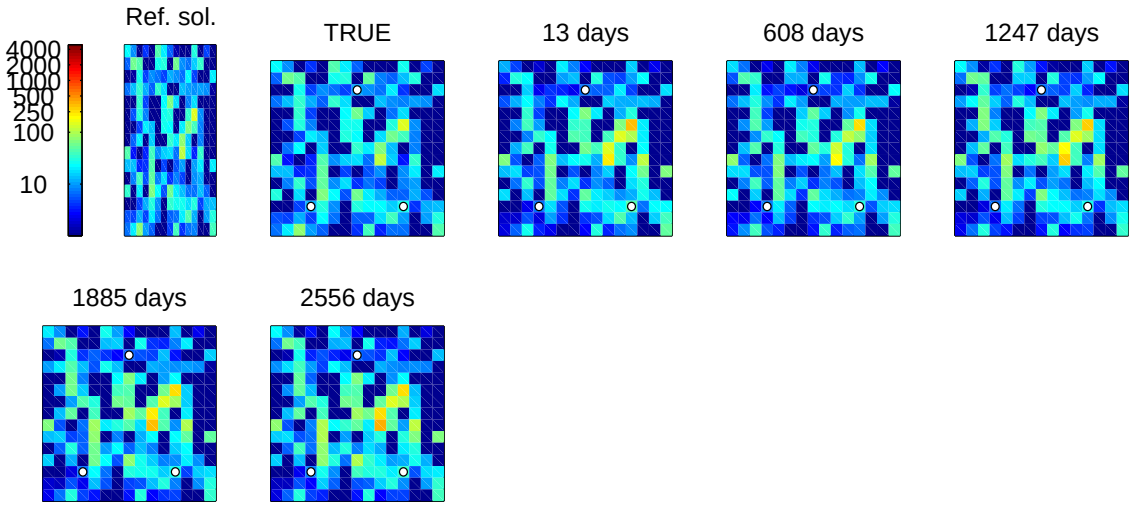

Figure 144: PERMZ for ensemble member 2 for layer 5

37 PERMZ for layer 6

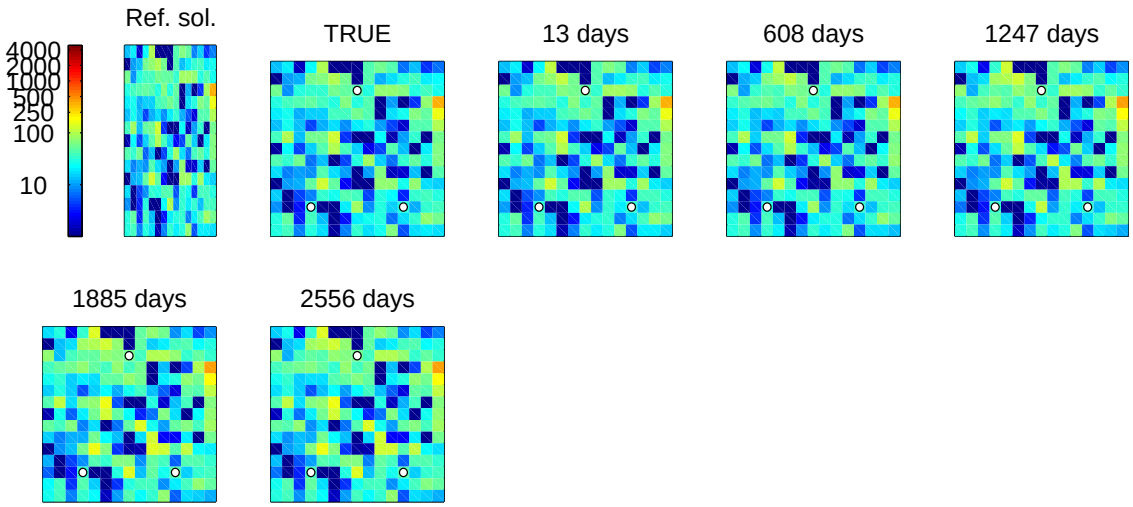

Figure 145: PERMZ mean value for layer 6

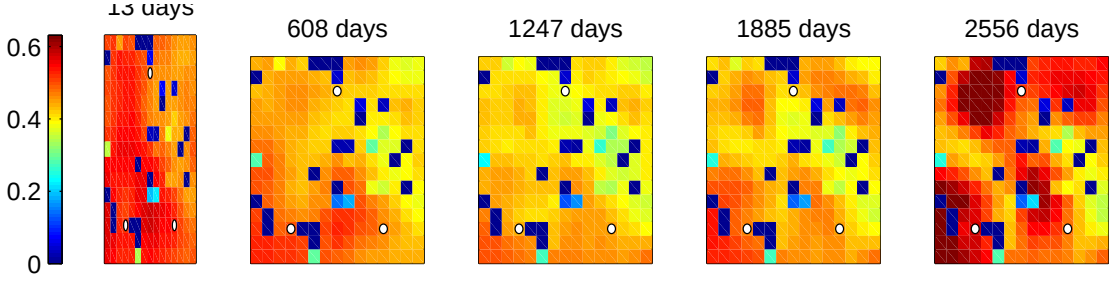

Figure 146: PERMZ stadard deviation for layer 6

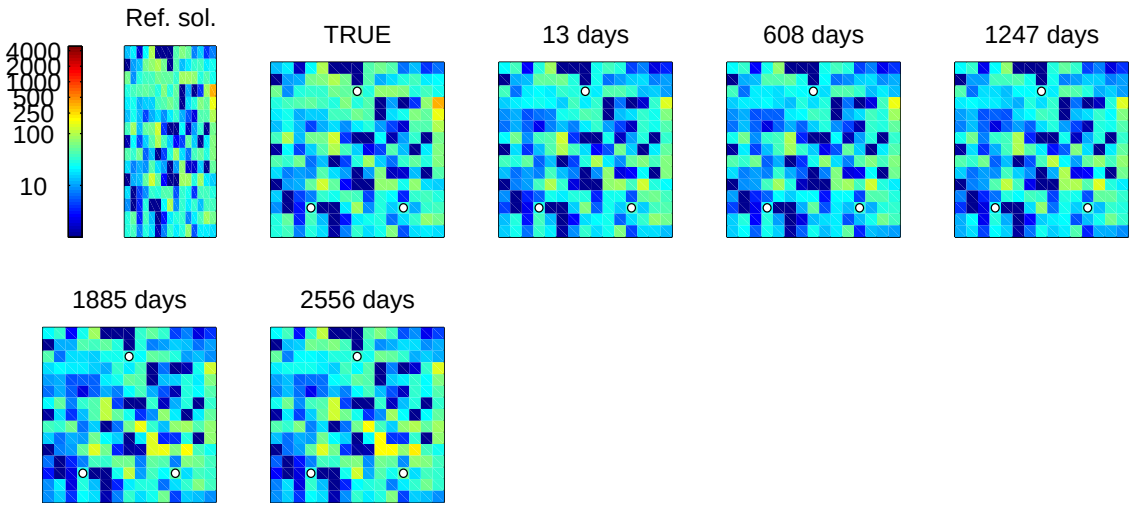

Figure 147: PERMZ for ensemble member 1 for layer 6

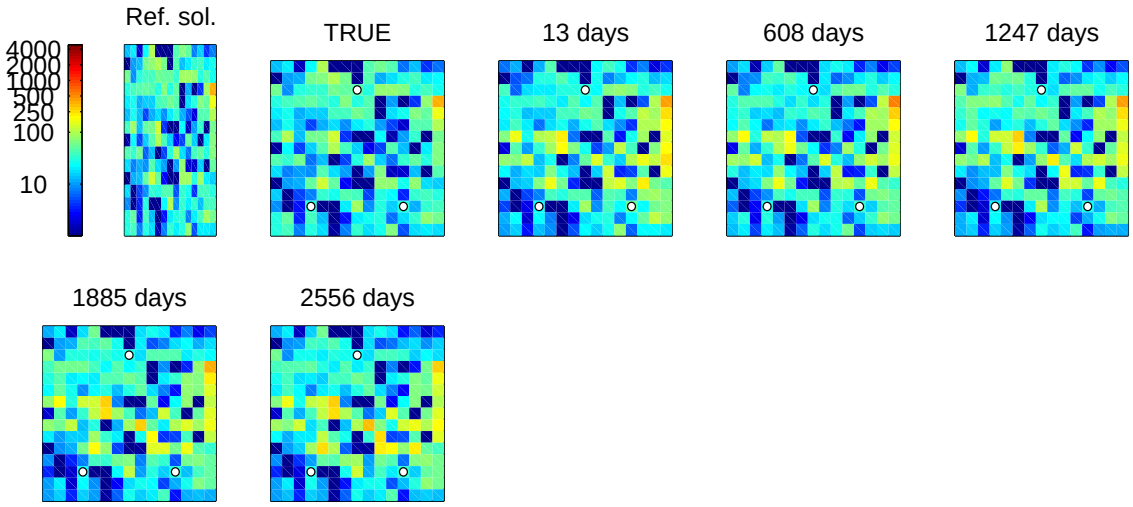

Figure 148: PERMZ for ensemble member 2 for layer 6

38 PERMZ for layer 7

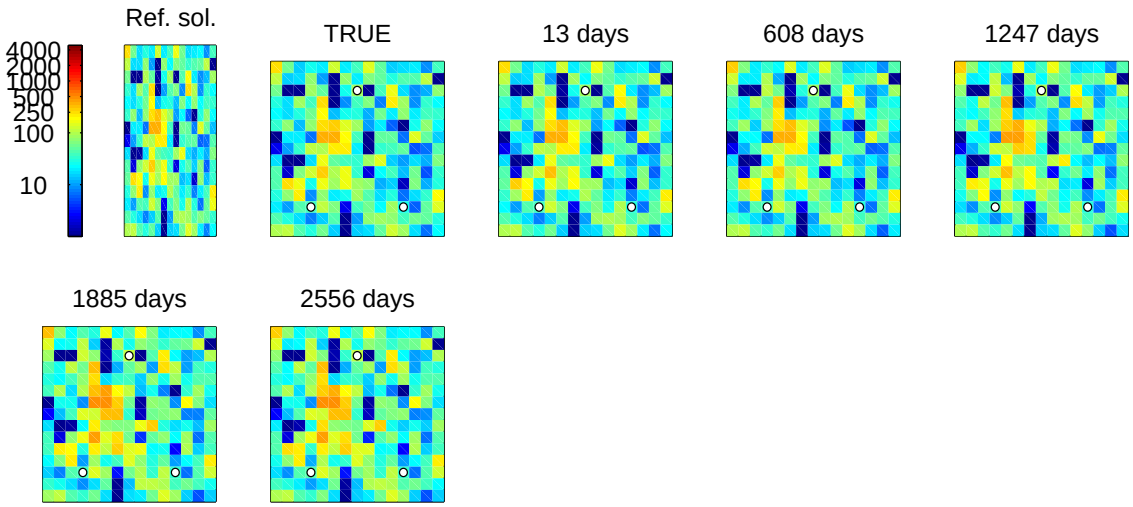

Figure 149: PERMZ mean value for layer 7

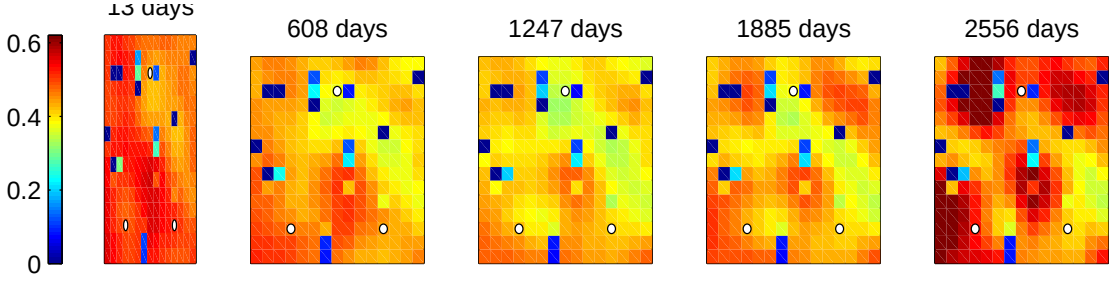

Figure 150: PERMZ stadard deviation for layer 7

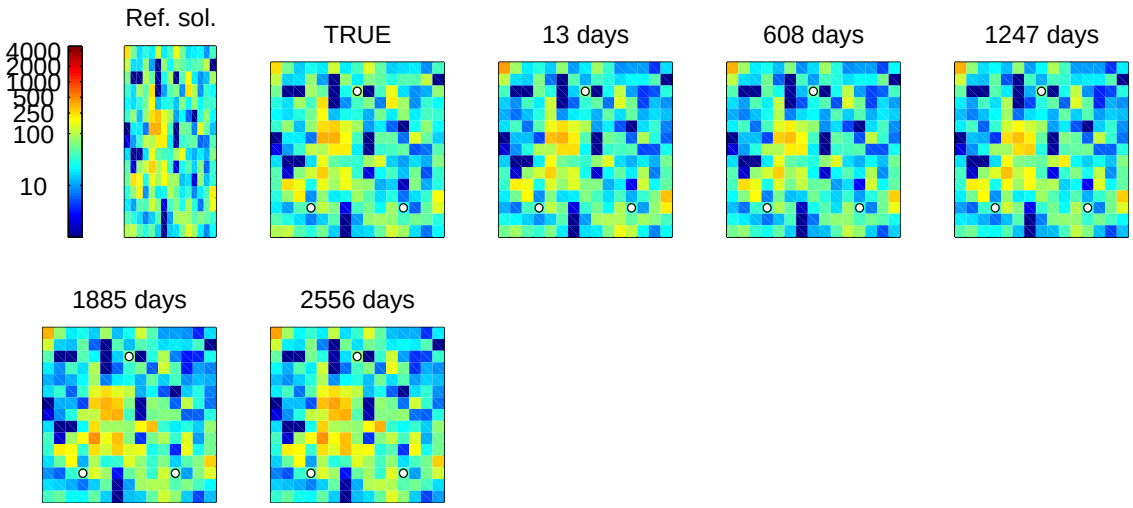

Figure 151: PERMZ for ensemble member 1 for layer 7

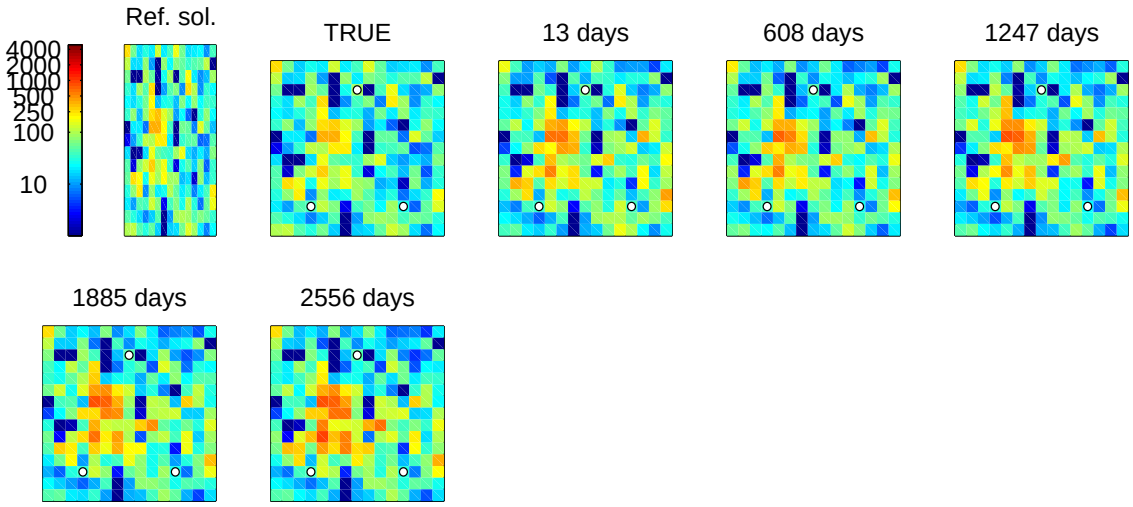

Figure 152: PERMZ for ensemble member 2 for layer 7

39 PERMZ for layer 8

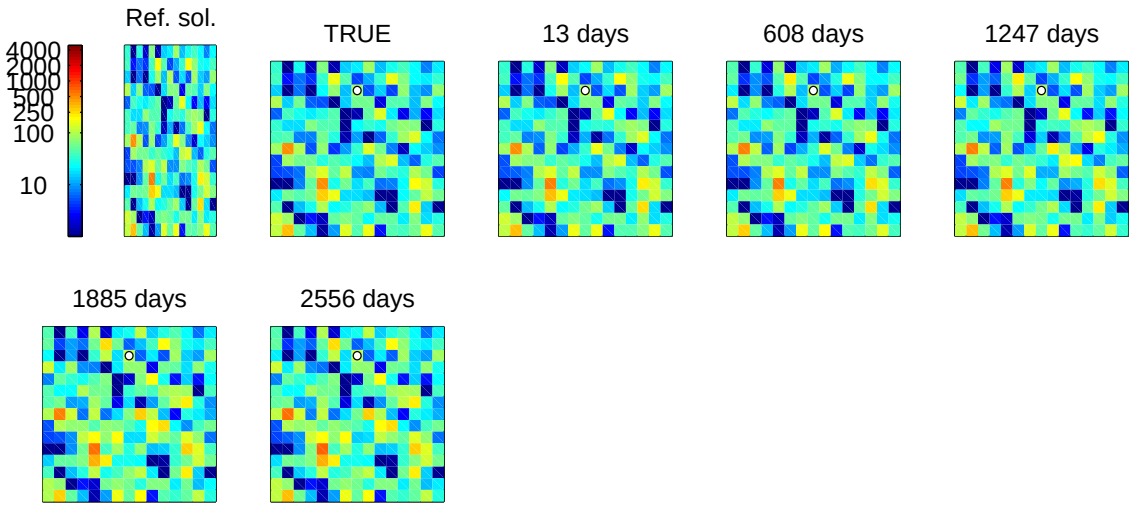

Figure 153: PERMZ mean value for layer 8

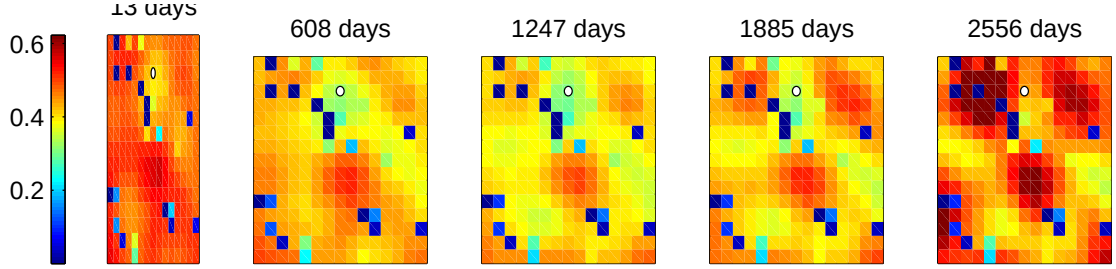

Figure 154: PERMZ stadard deviation for layer 8

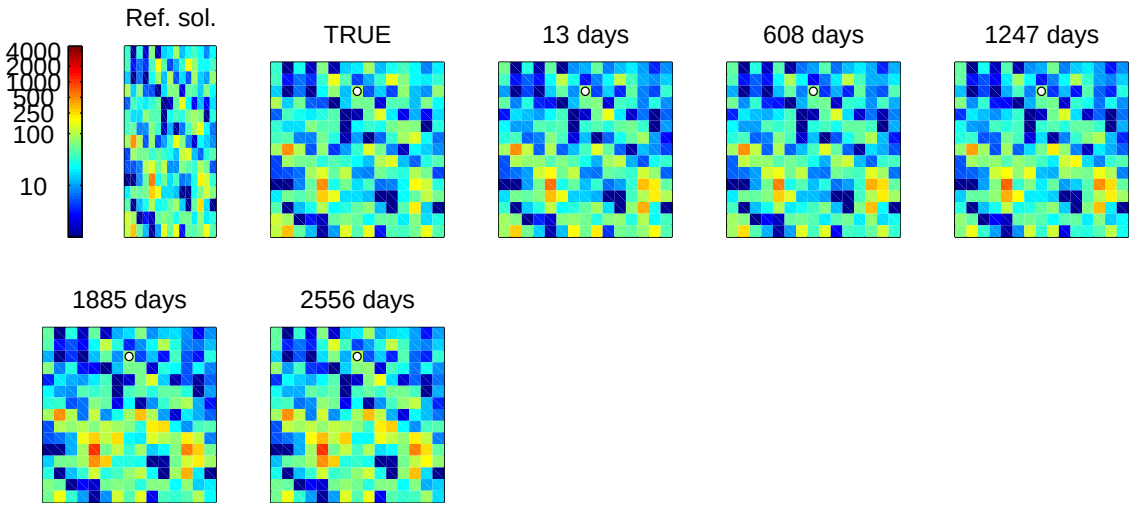

Figure 155: PERMZ for ensemble member 1 for layer 8

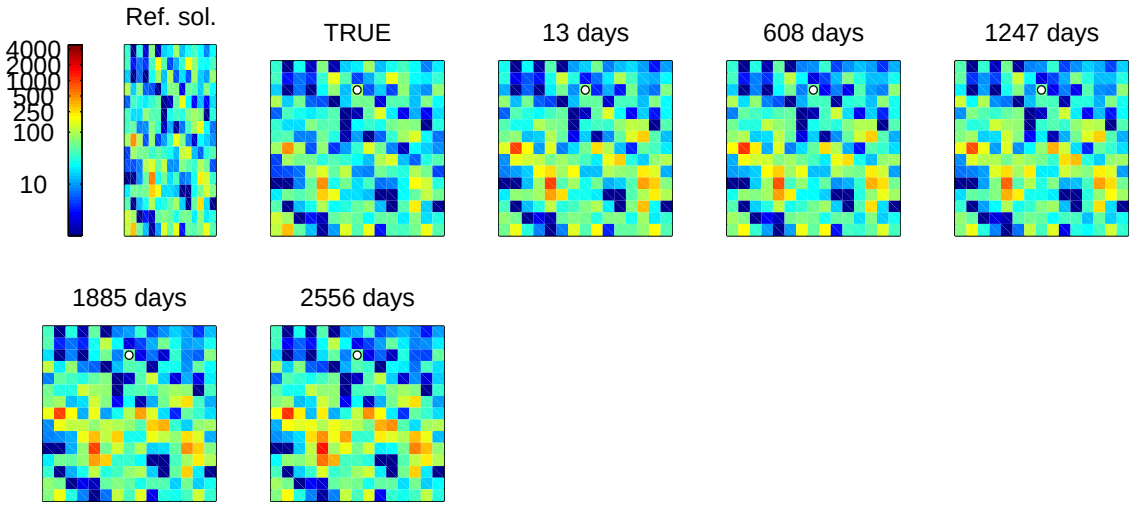

Figure 156: PERMZ for ensemble member 2 for layer 8

40 PERMZ for layer 9

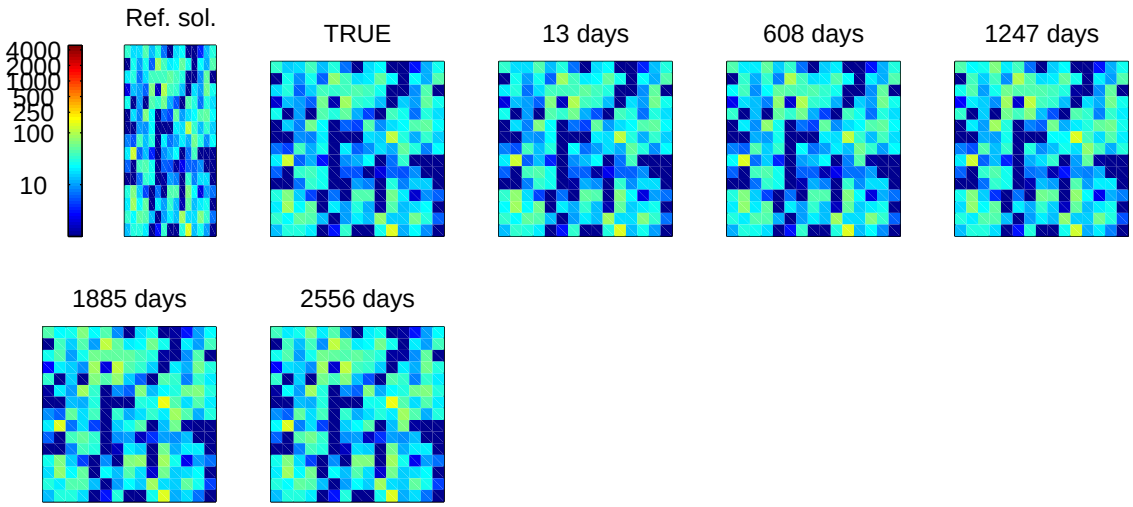

Figure 157: PERMZ mean value for layer 9

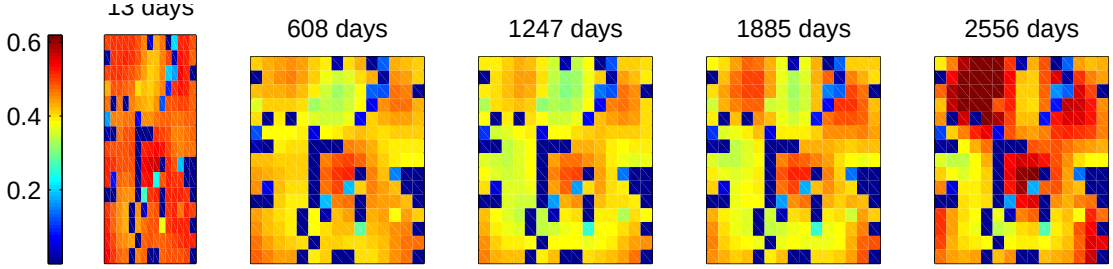

Figure 158: PERMZ stadard deviation for layer 9

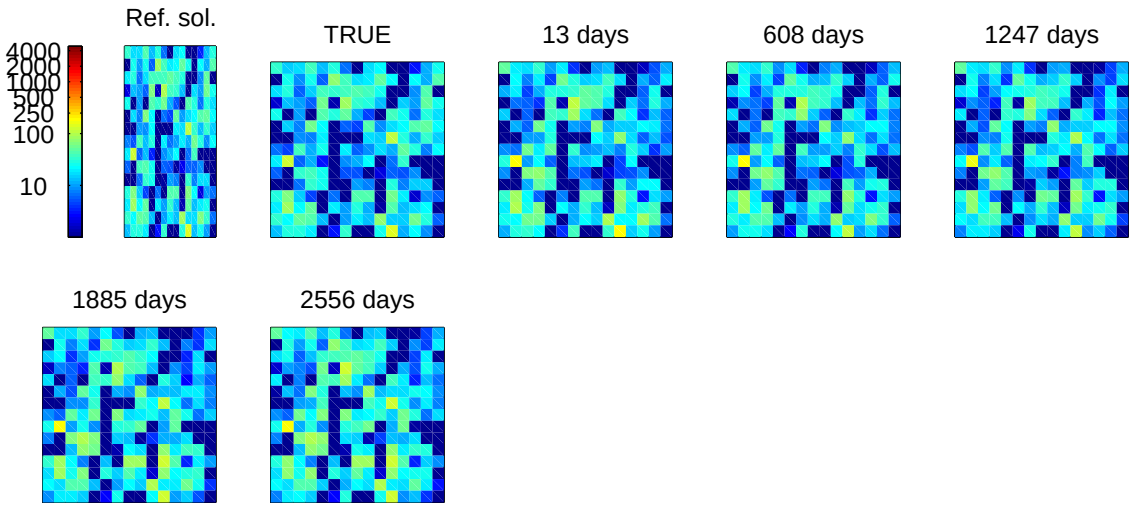

Figure 159: PERMZ for ensemble member 1 for layer 9

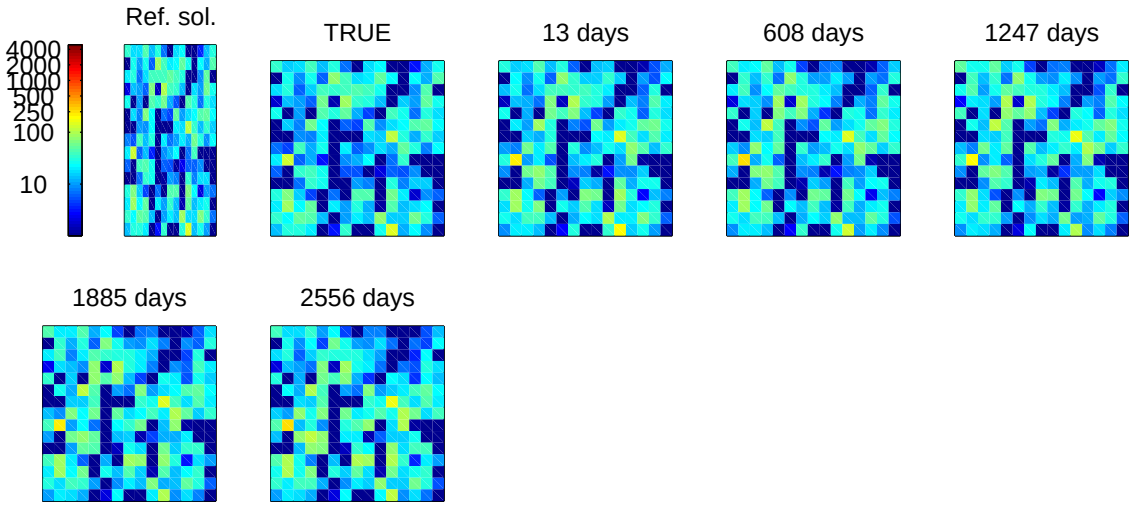

Figure 160: PERMZ for ensemble member 2 for layer 9

41 PERMZ for layer 10

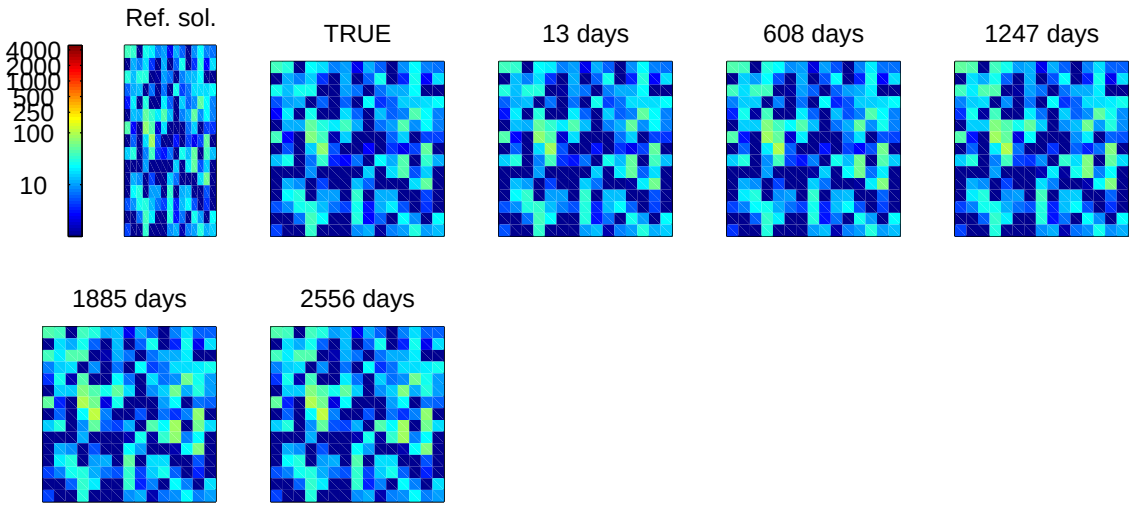

Figure 161: PERMZ mean value for layer 10

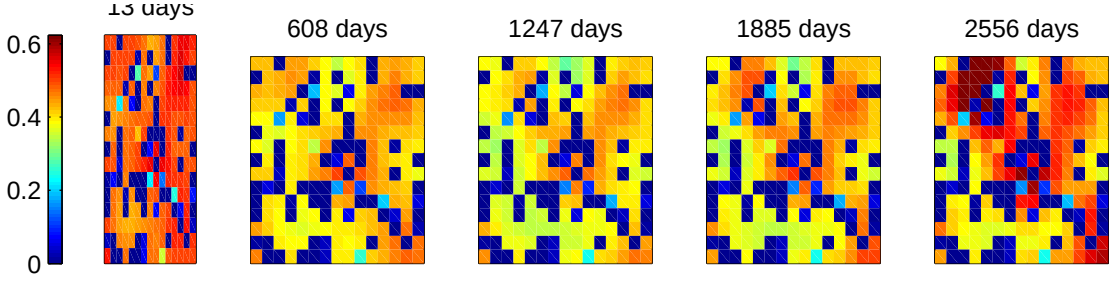

Figure 162: PERMZ stadard deviation for layer 10

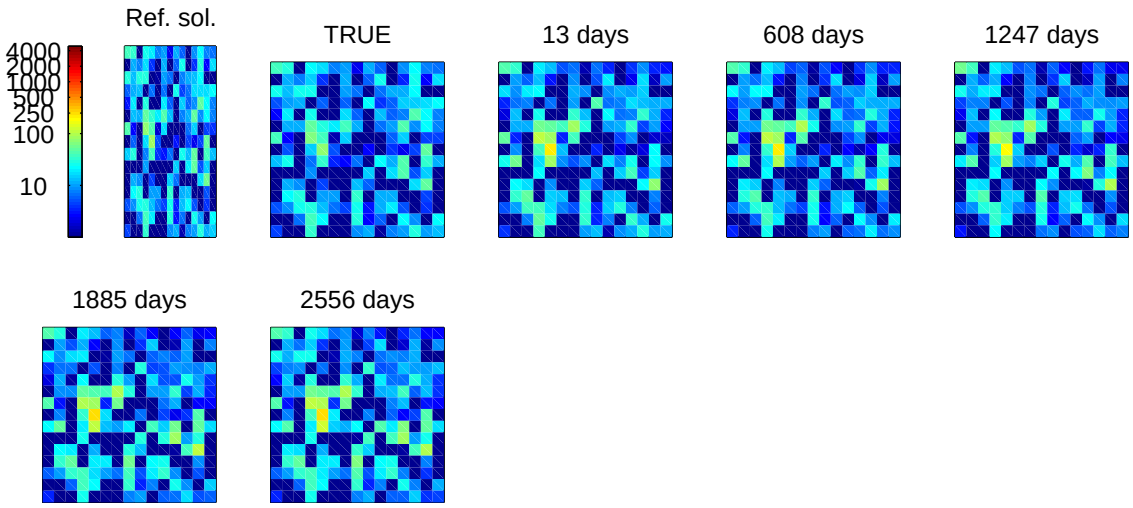

Figure 163: PERMZ for ensemble member 1 for layer 10

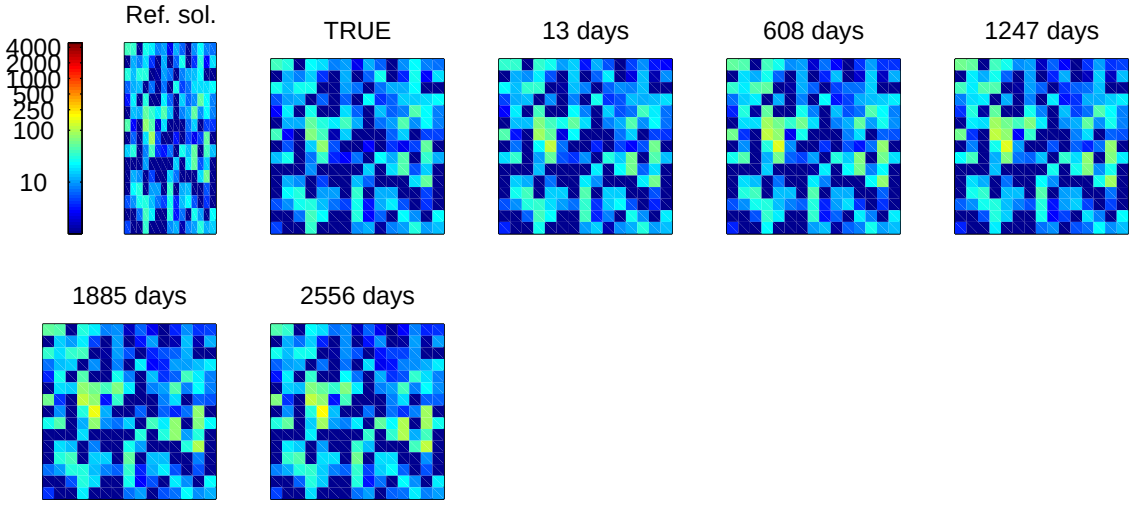

Figure 164: PERMZ for ensemble member 2 for layer 10