

SHAP Beeswarm - Class 0

High

Feature value

Low

Class_50

Class_40

Class_90

Class_10

Class_60

Class_30

ANOM4

Class_80

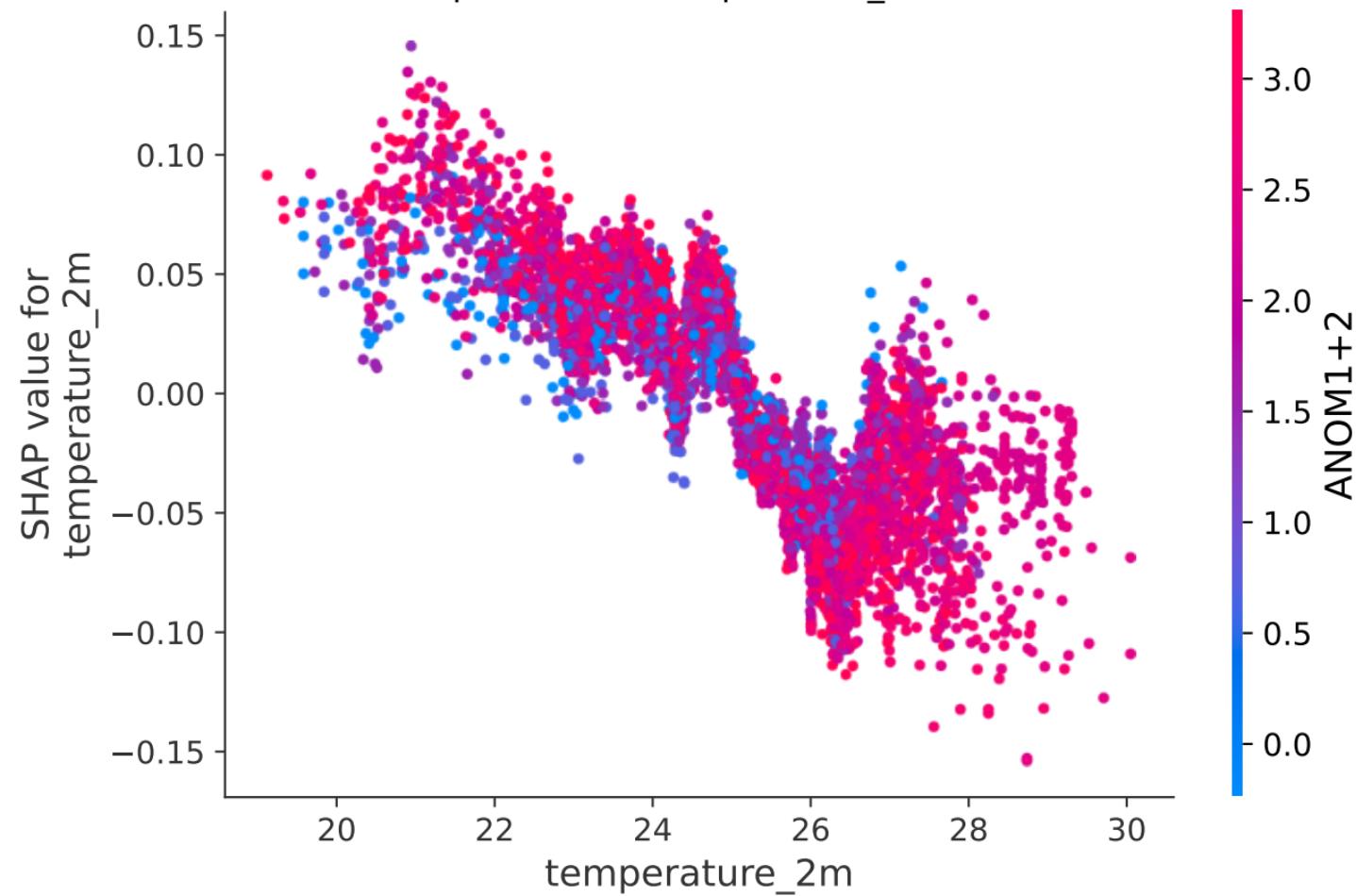
aridity_index

Sum of 81 other features

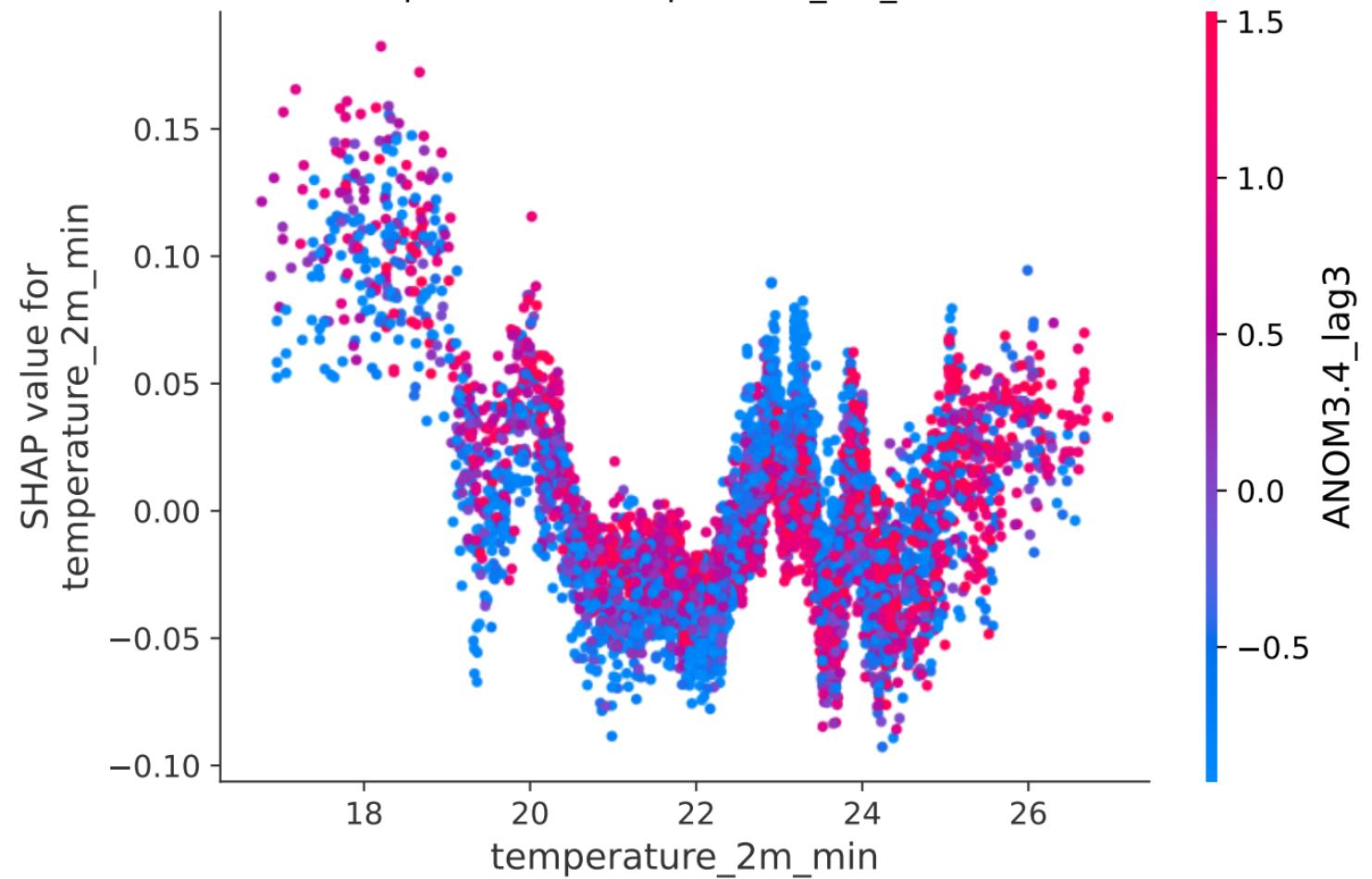
-2 -1 0 1 2 3

SHAP value (impact on model output)

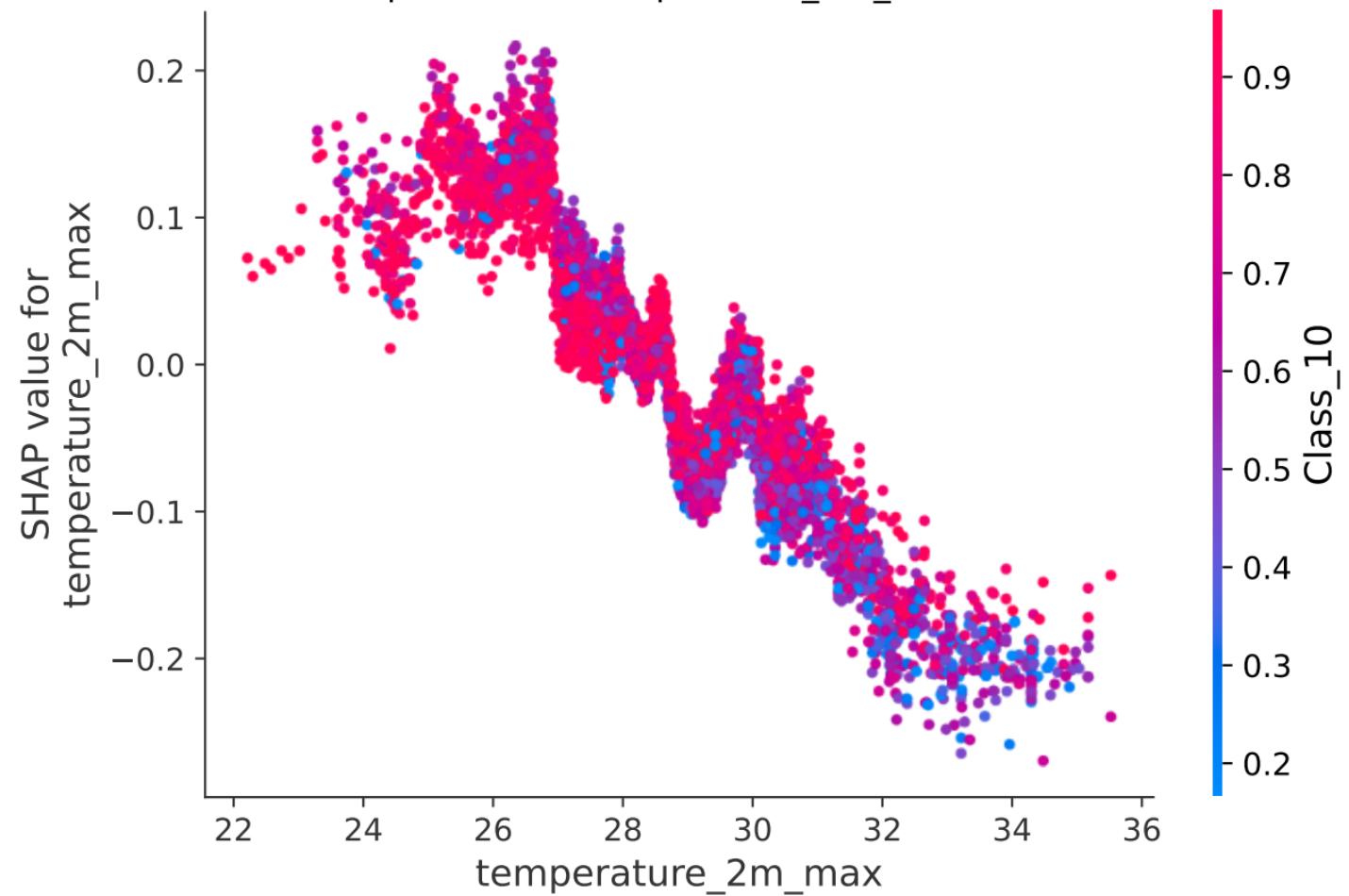
SHAP Dependence - temperature_2m - Class 0



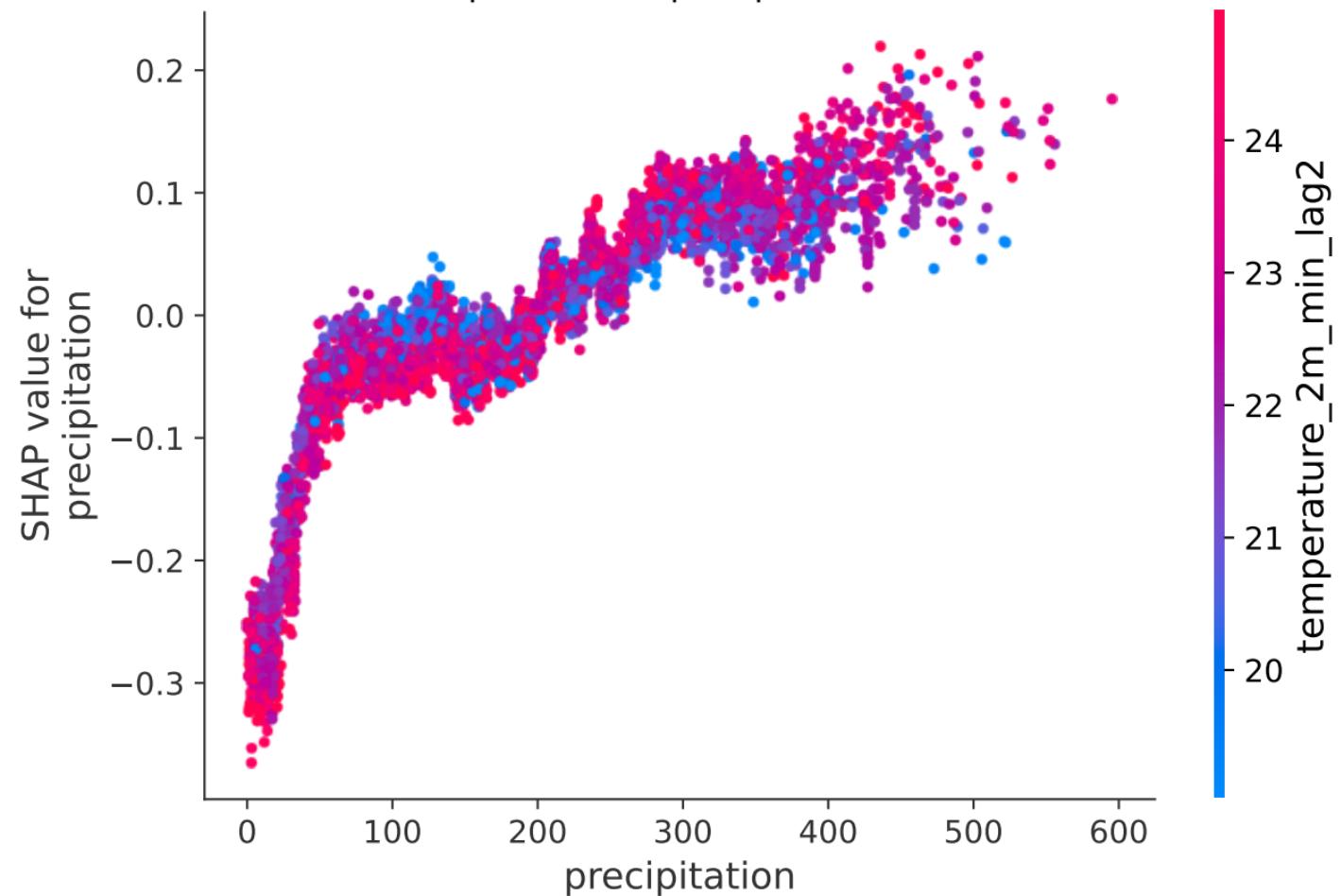
SHAP Dependence - temperature_2m_min - Class 0



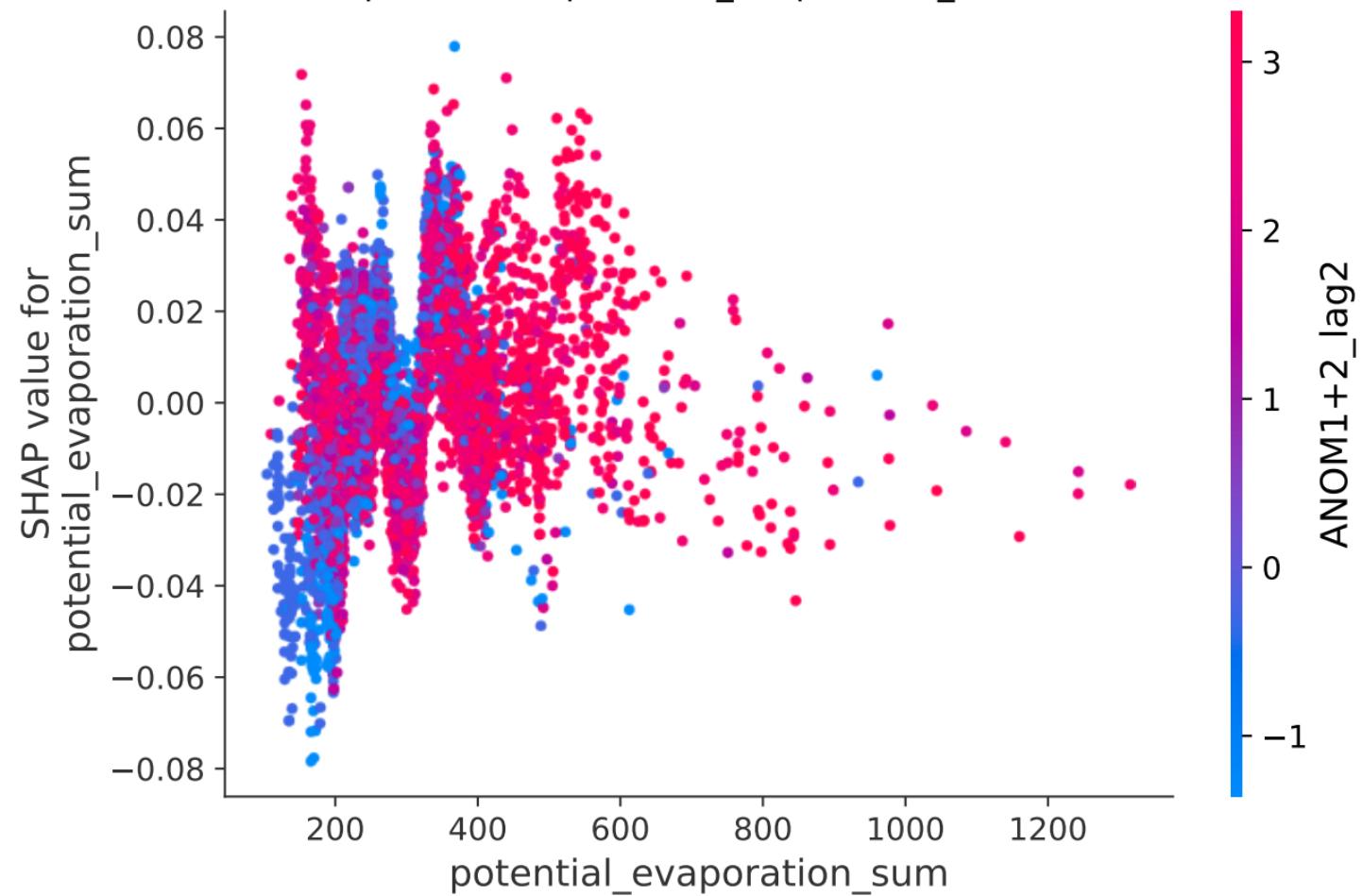
SHAP Dependence - temperature_2m_max - Class 0



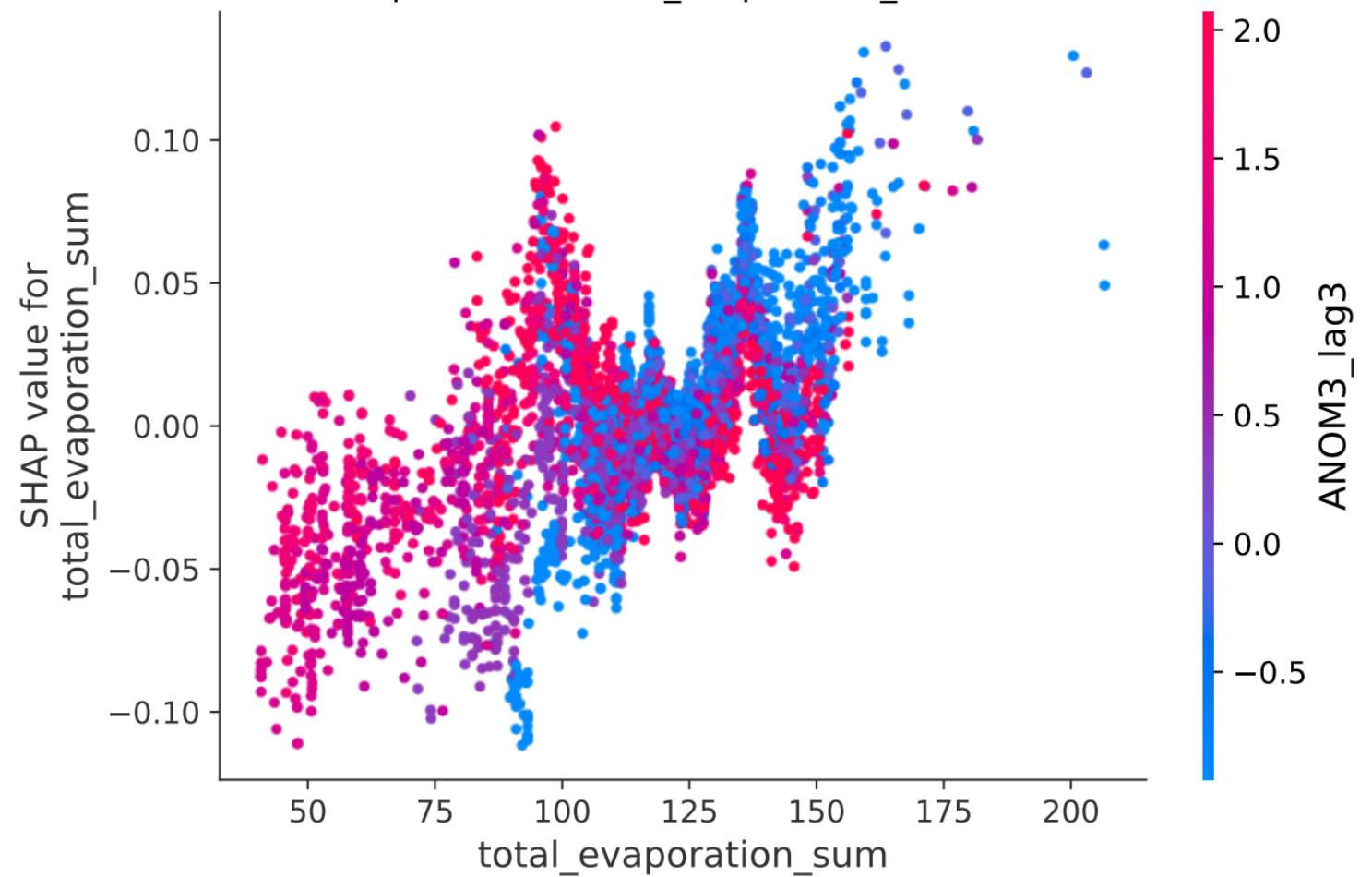
SHAP Dependence - precipitation - Class 0



SHAP Dependence - potential_evaporation_sum - Class 0

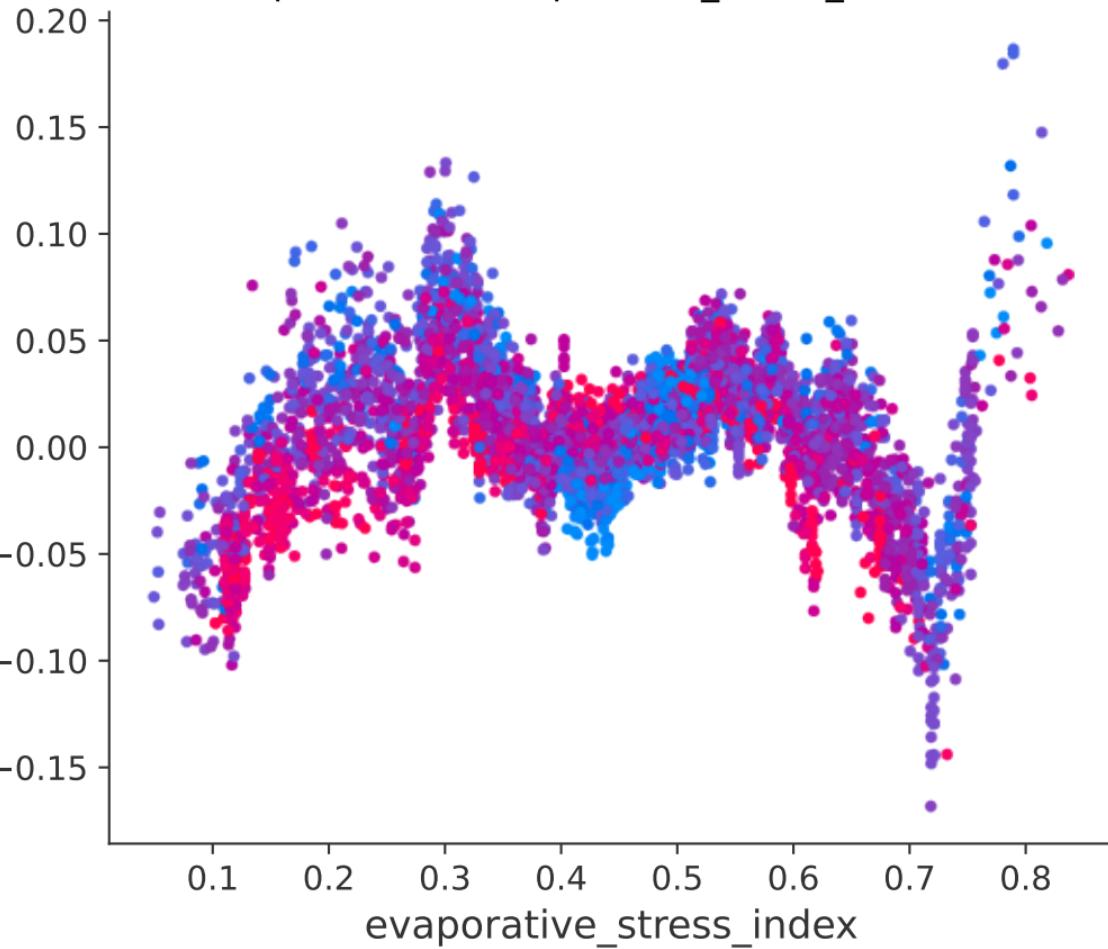


SHAP Dependence - total_evaporation_sum - Class 0

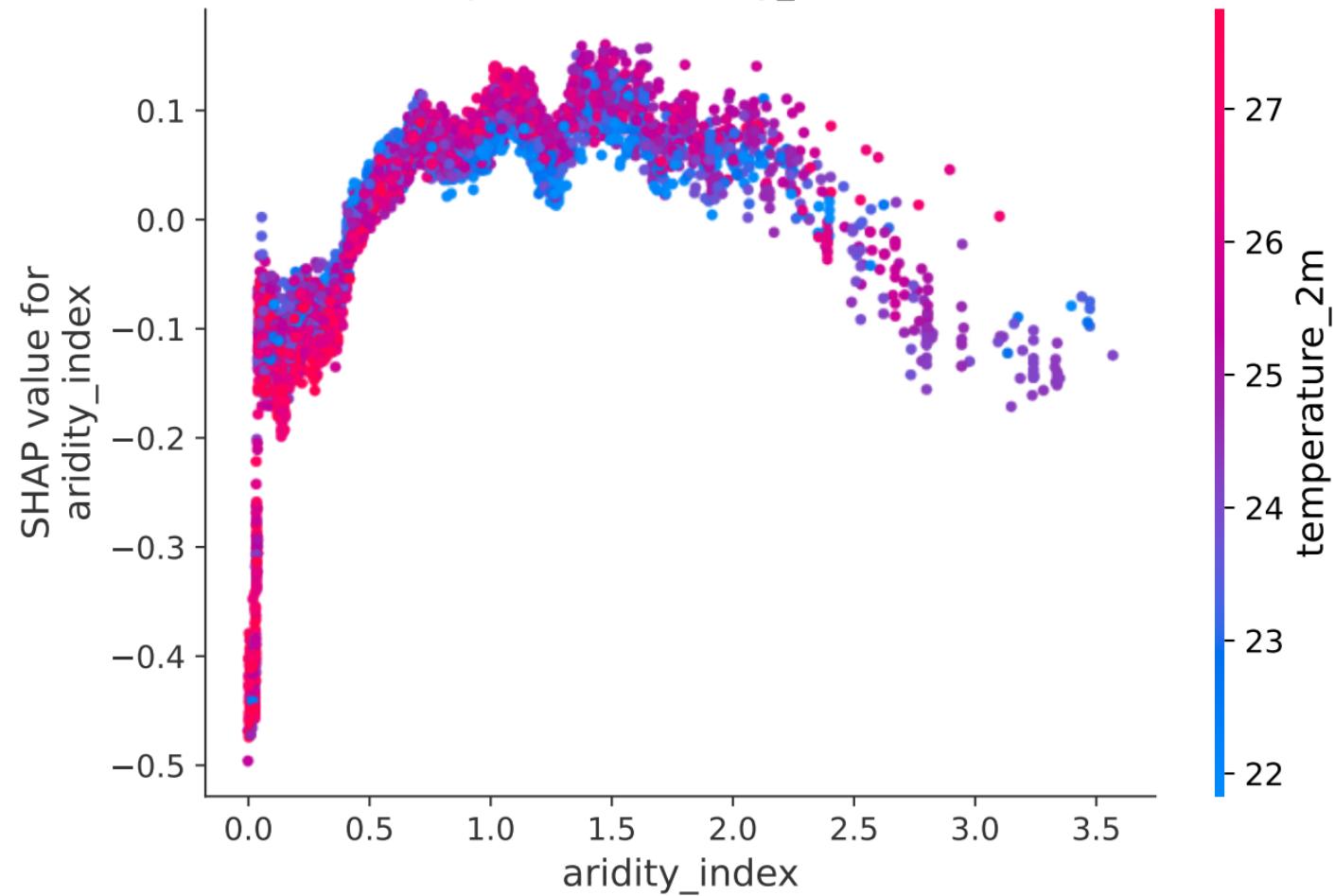


SHAP Dependence - evaporative_stress_index - Class 0

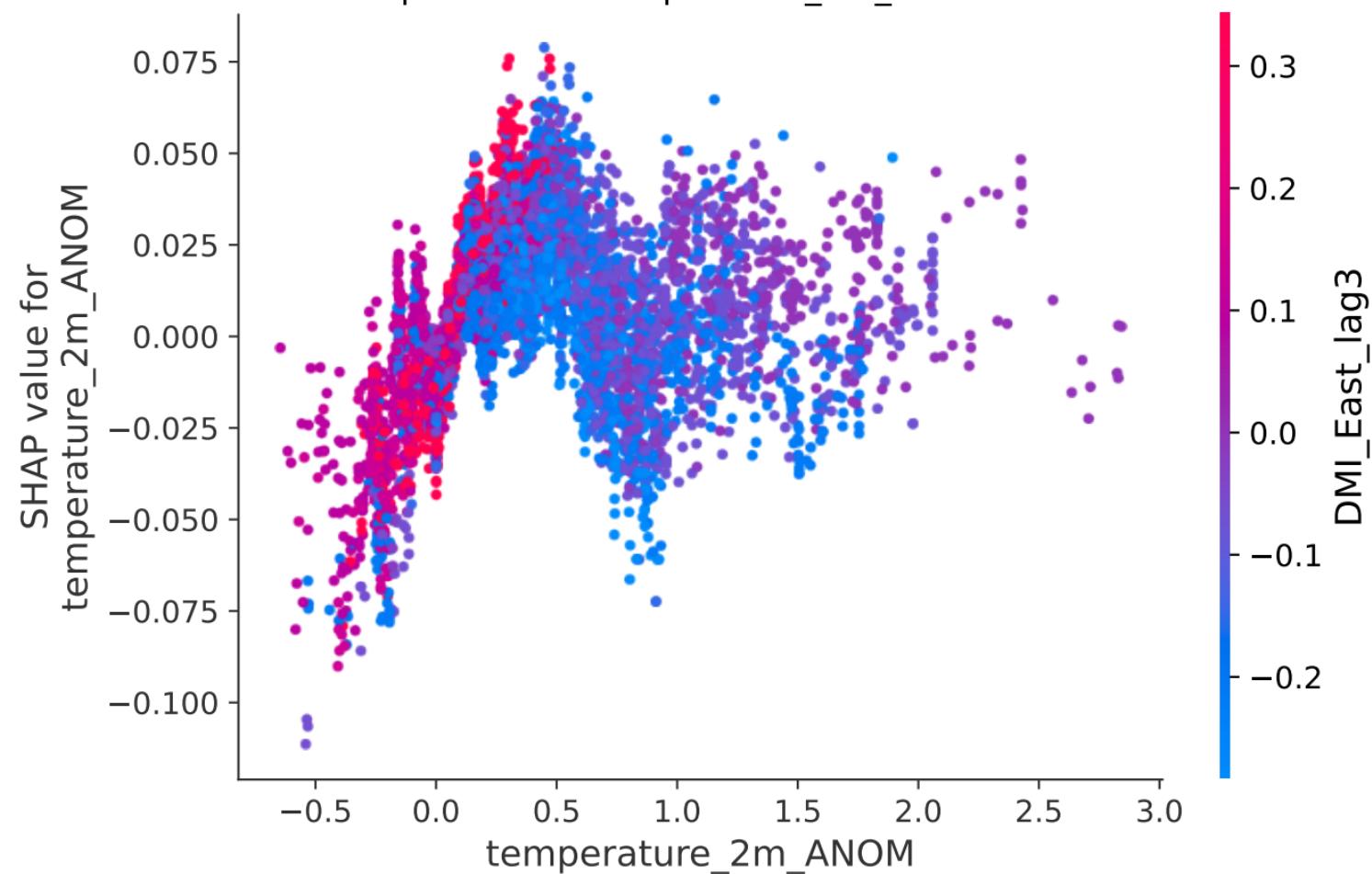
SHAP value for
evaporative_stress_index



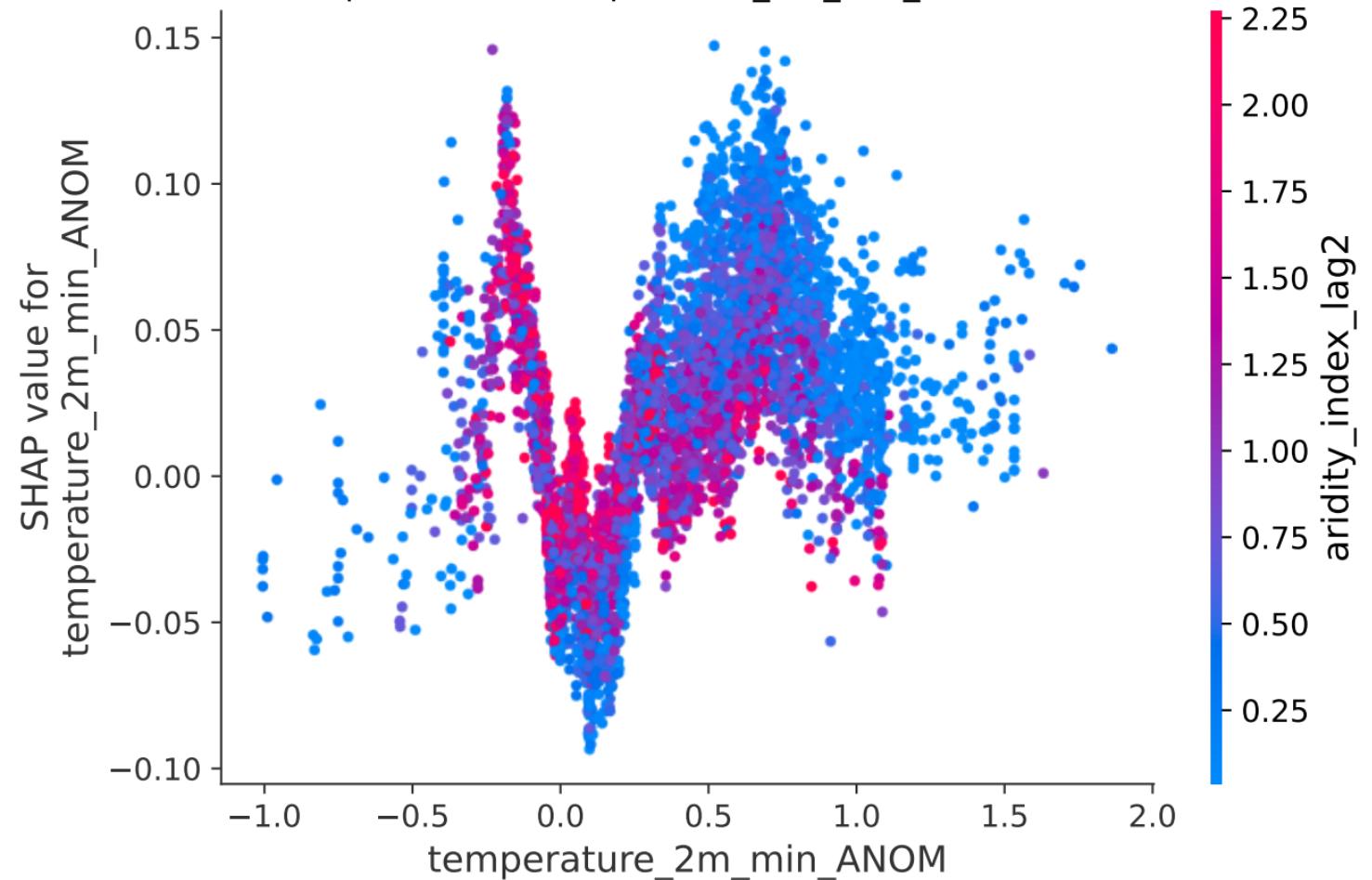
SHAP Dependence - aridity_index - Class 0



SHAP Dependence - temperature_2m_ANOM - Class 0

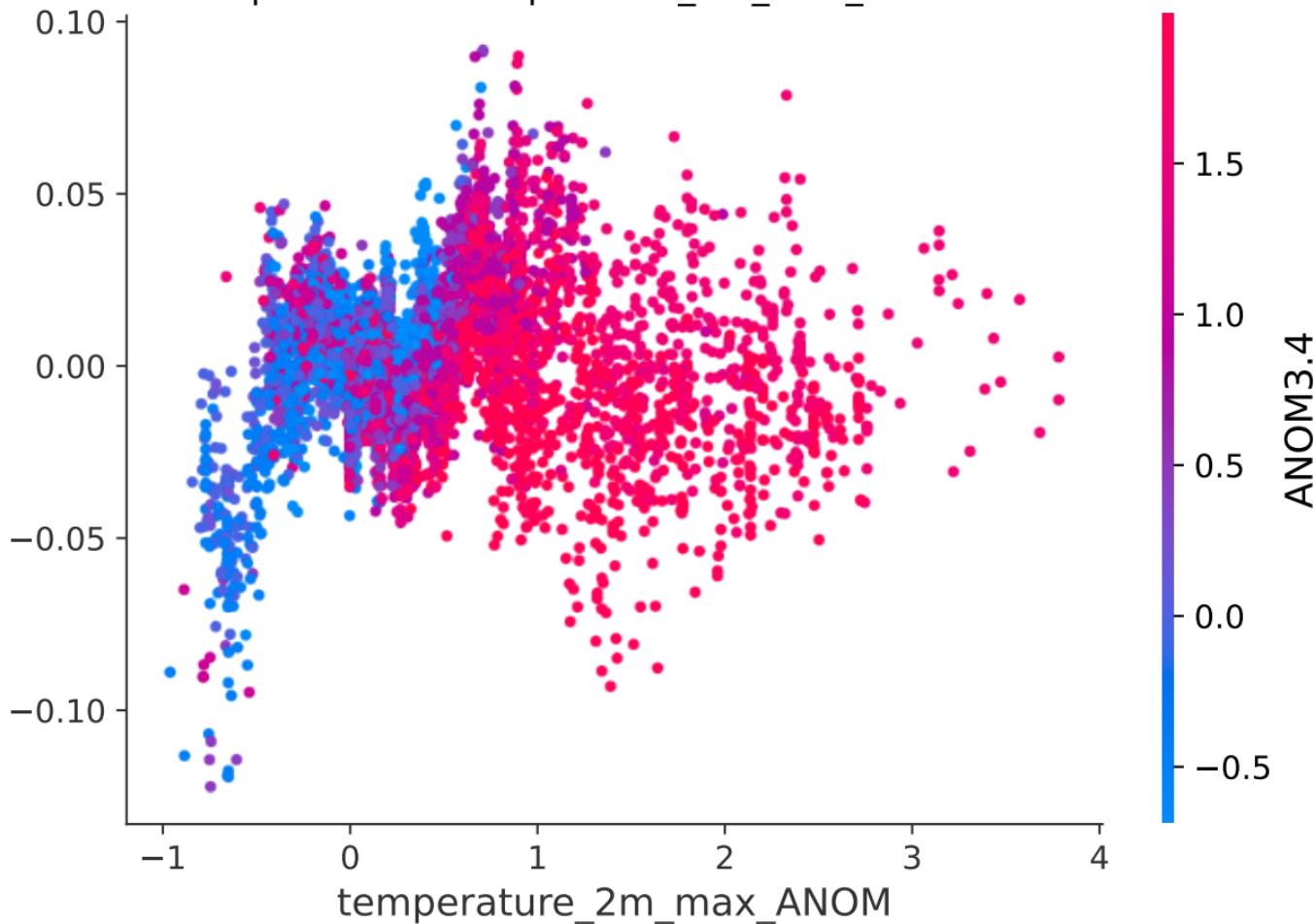


SHAP Dependence - temperature_2m_min_ANOM - Class 0

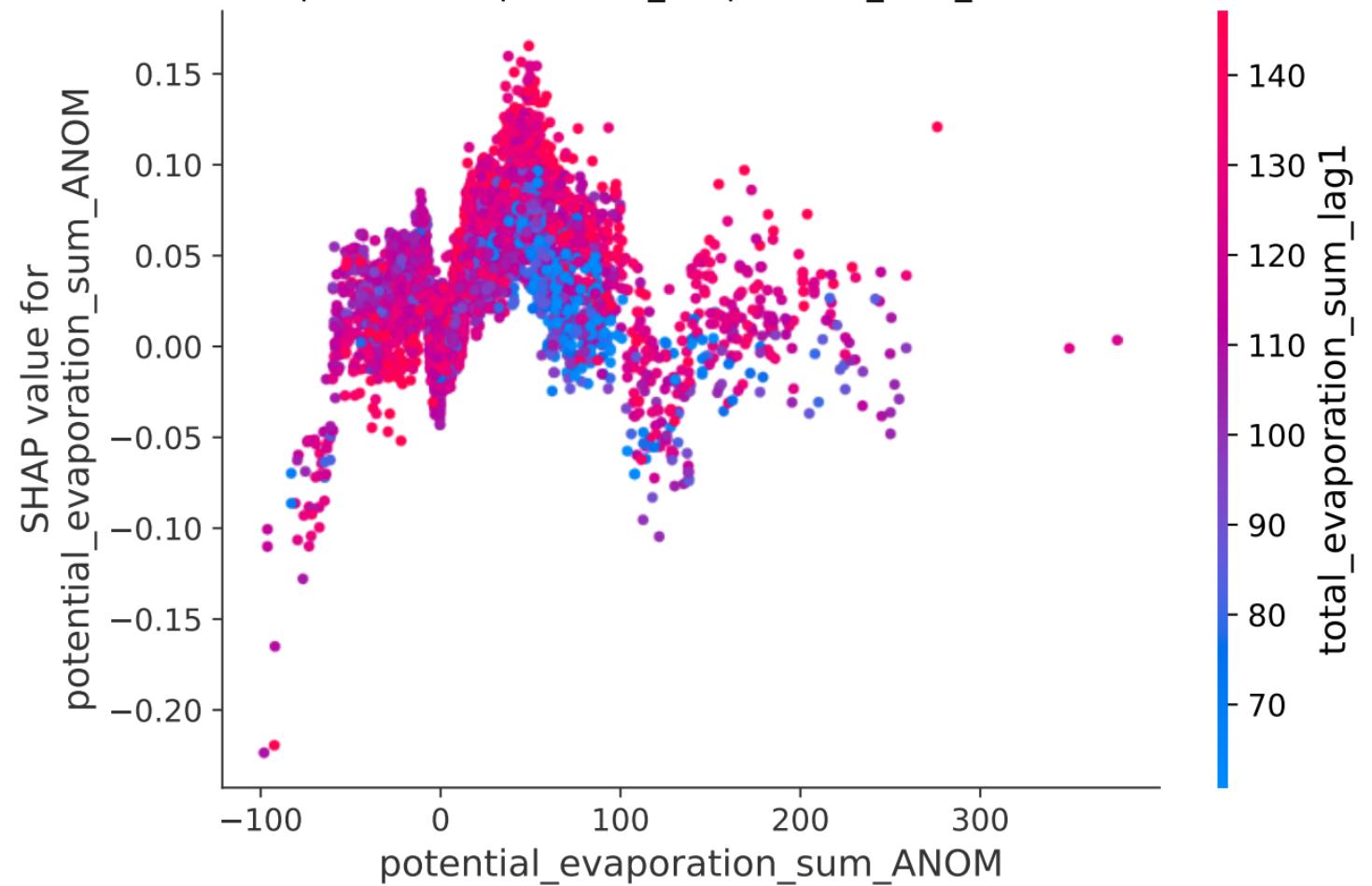


SHAP Dependence - temperature_2m_max_ANOM - Class 0

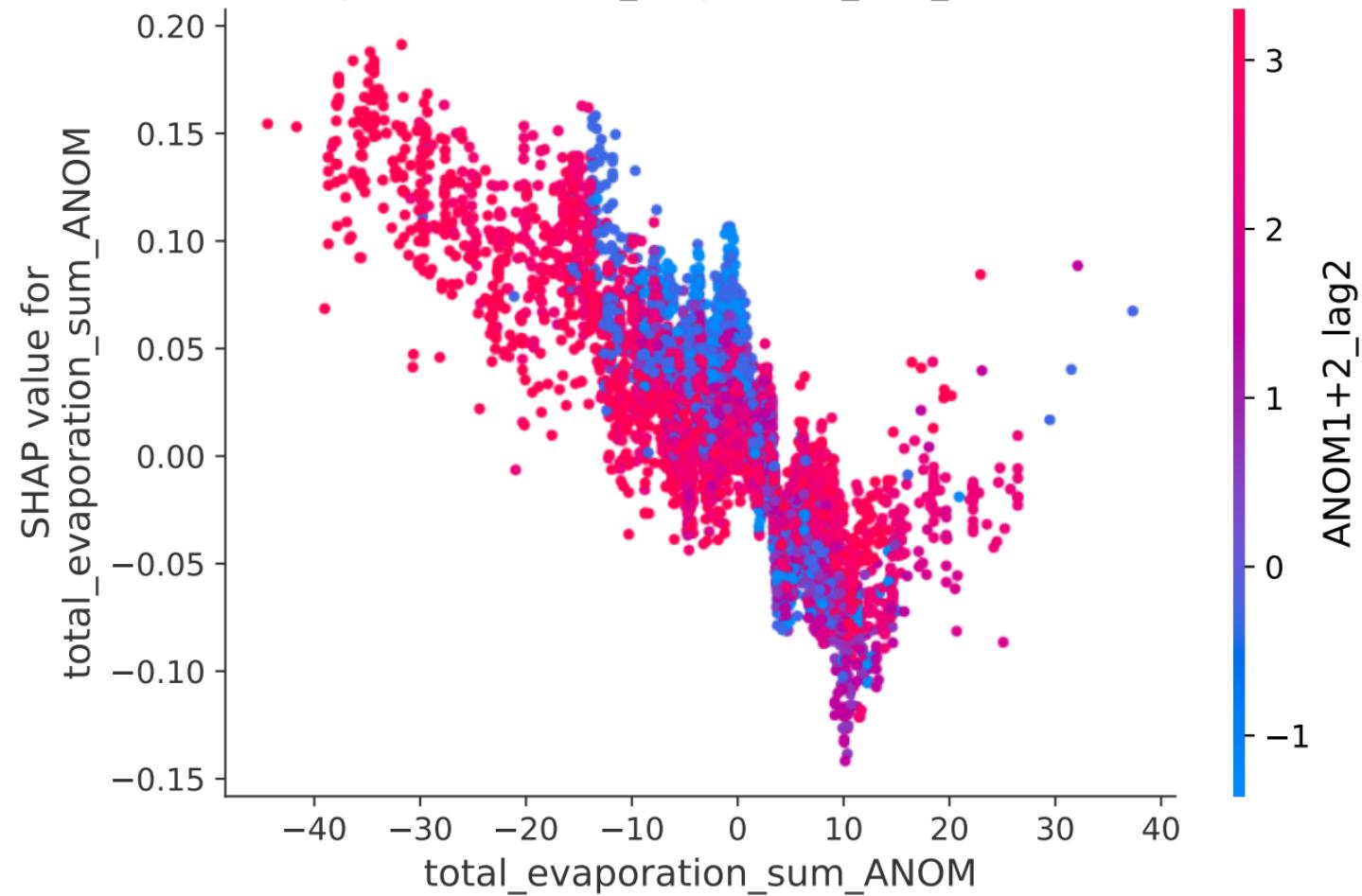
SHAP value for
temperature_2m_max_ANOM



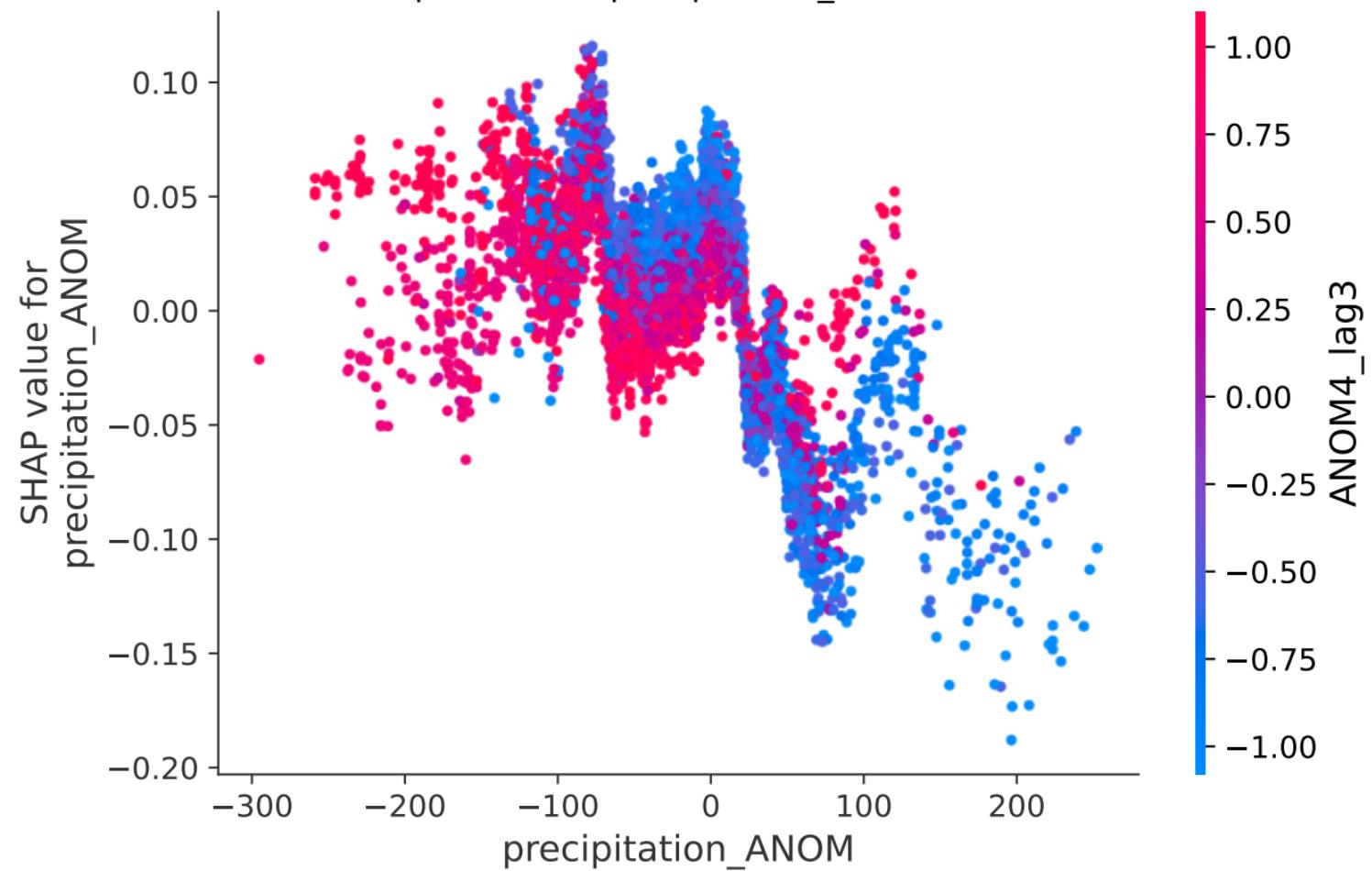
SHAP Dependence - potential_evaporation_sum_ANOM - Class 0



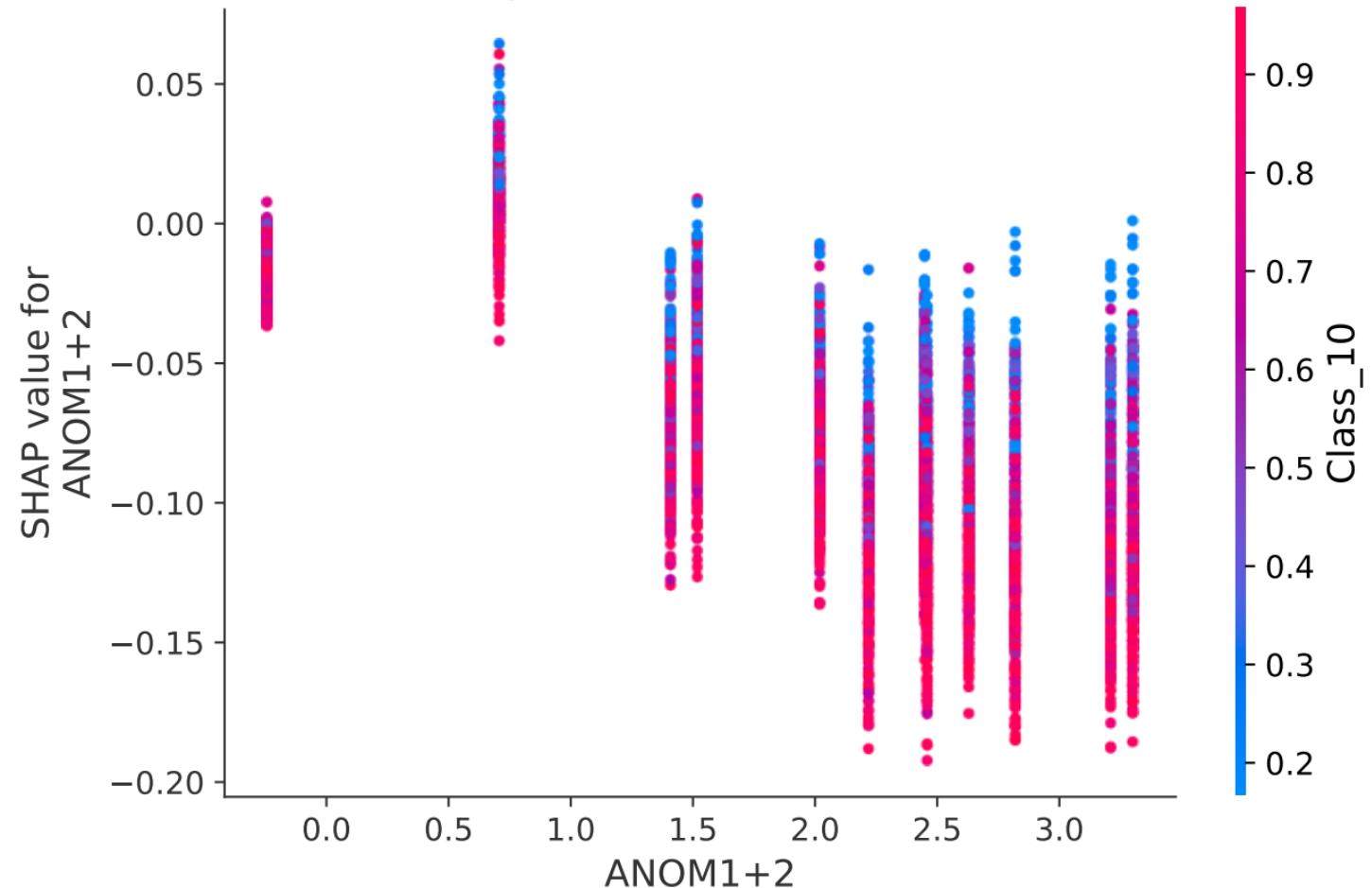
SHAP Dependence - total_evaporation_sum_ANOM - Class 0



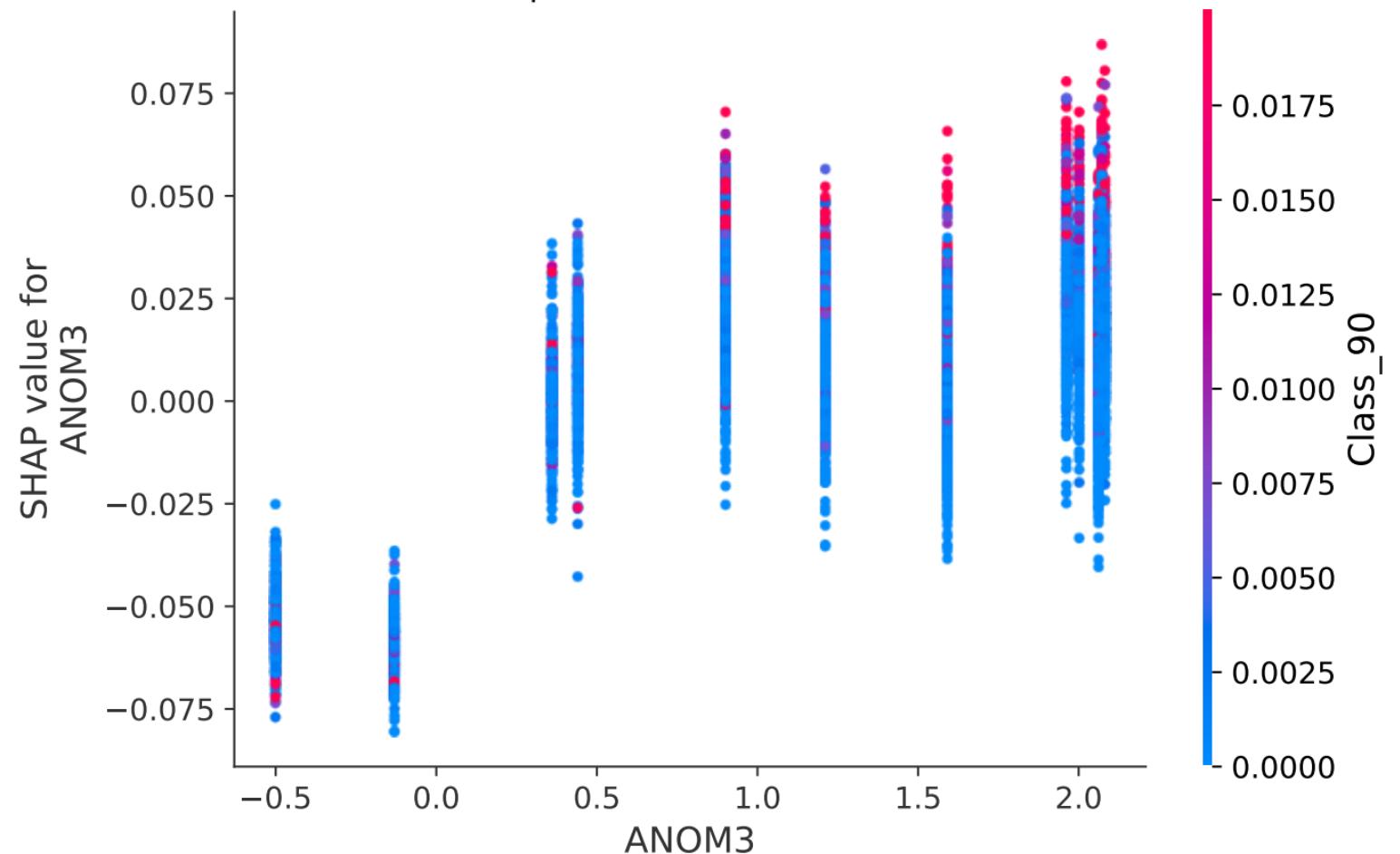
SHAP Dependence - precipitation_ANOM - Class 0



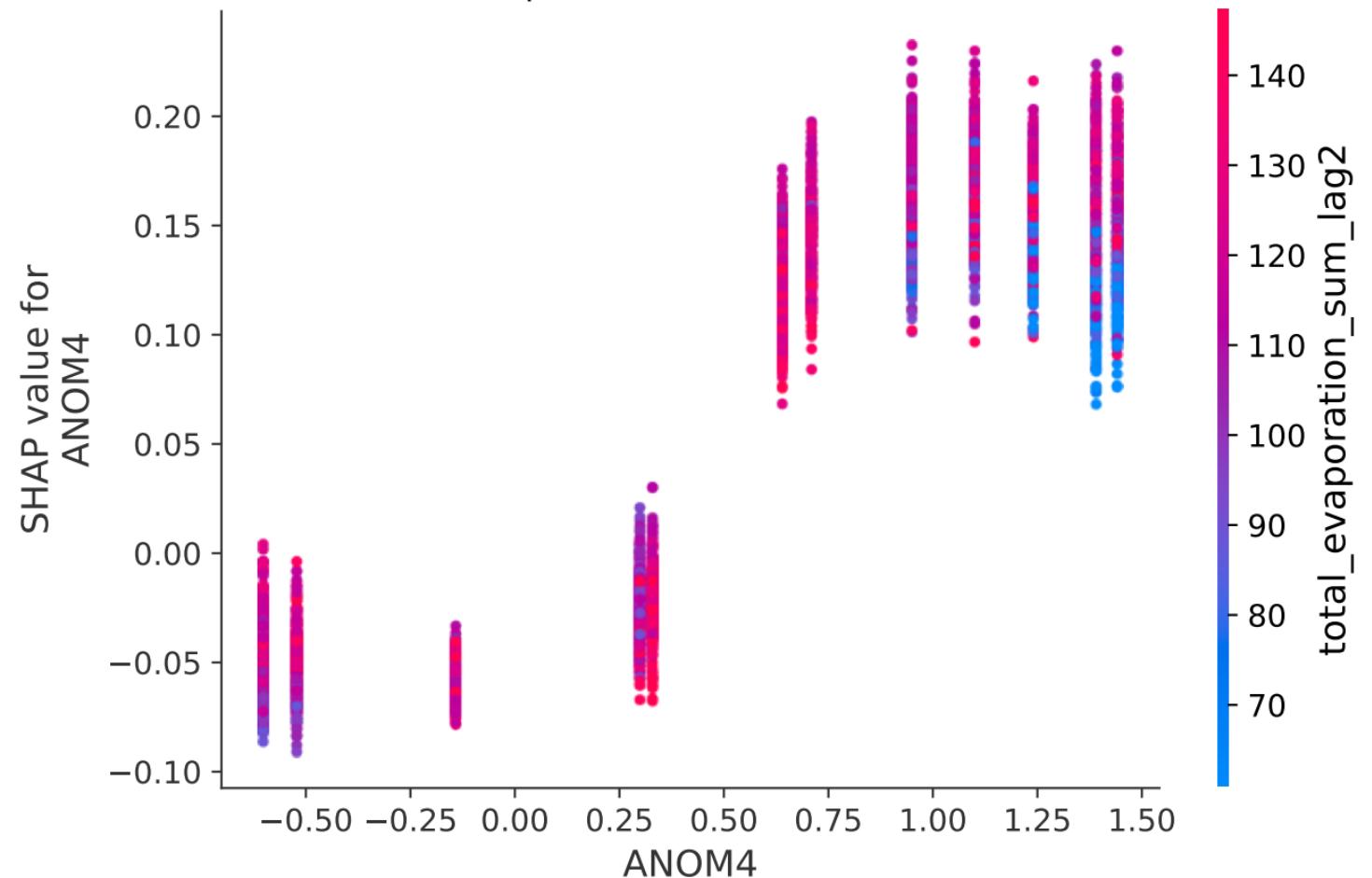
SHAP Dependence - ANOM1+2 - Class 0



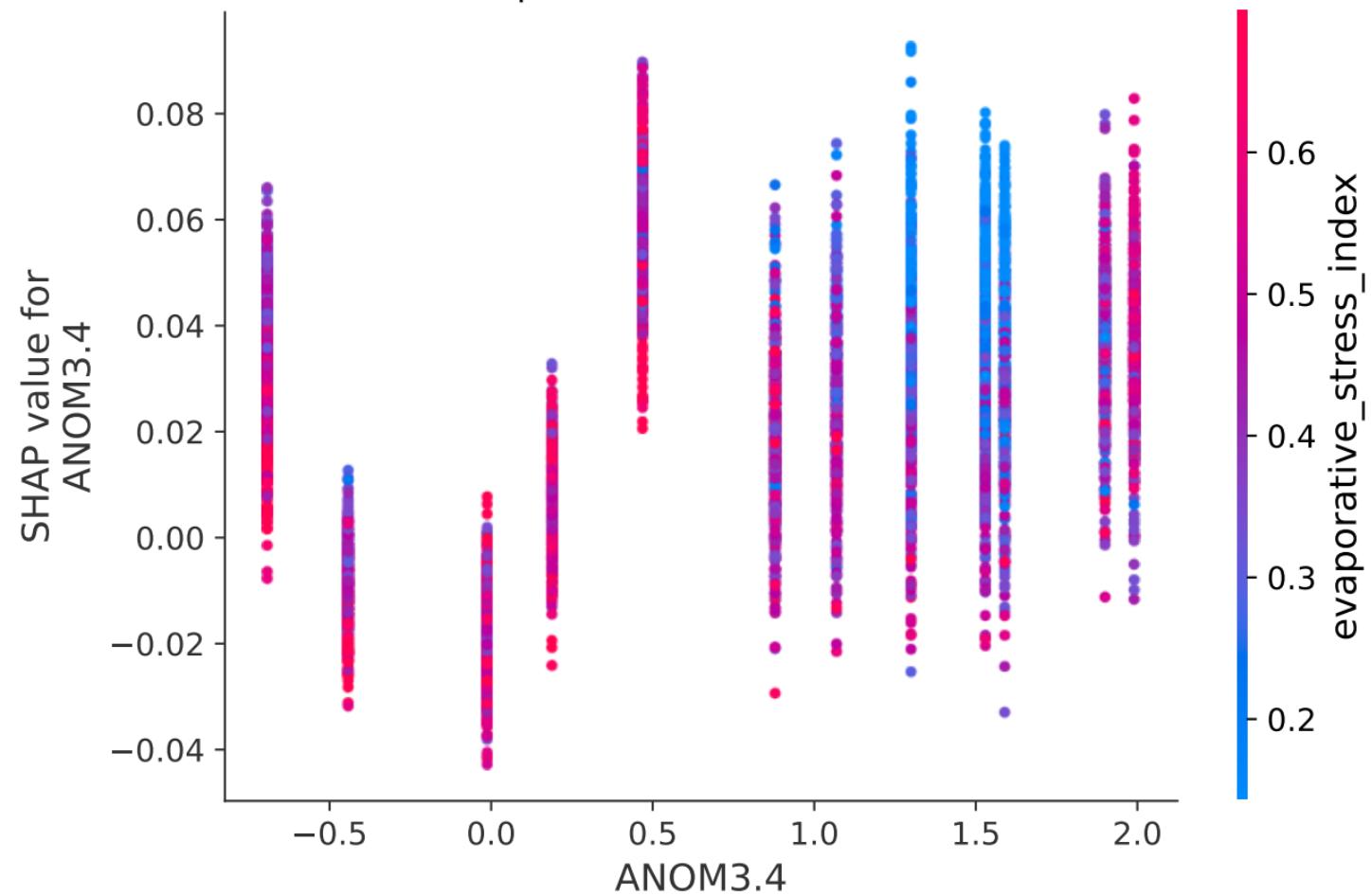
SHAP Dependence - ANOM3 - Class 0



SHAP Dependence - ANOM4 - Class 0

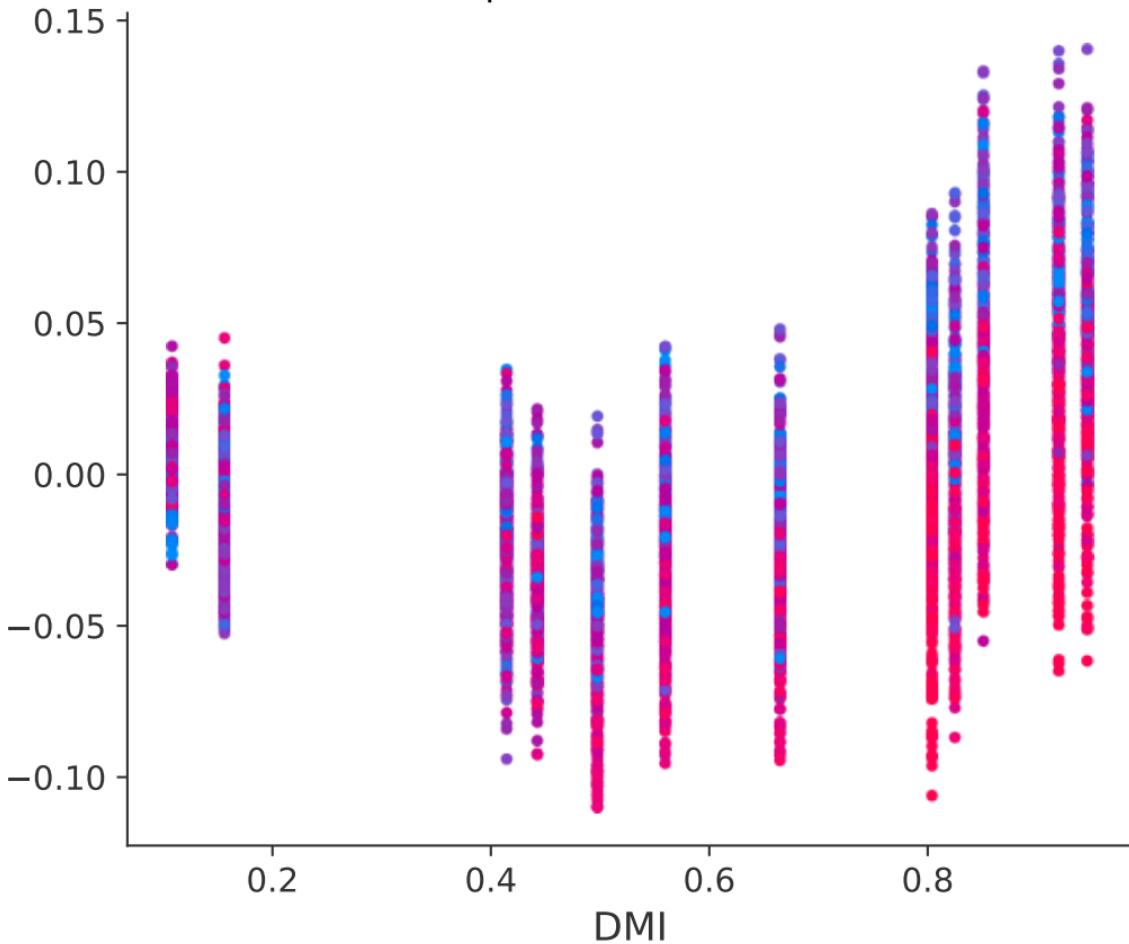


SHAP Dependence - ANOM3.4 - Class 0

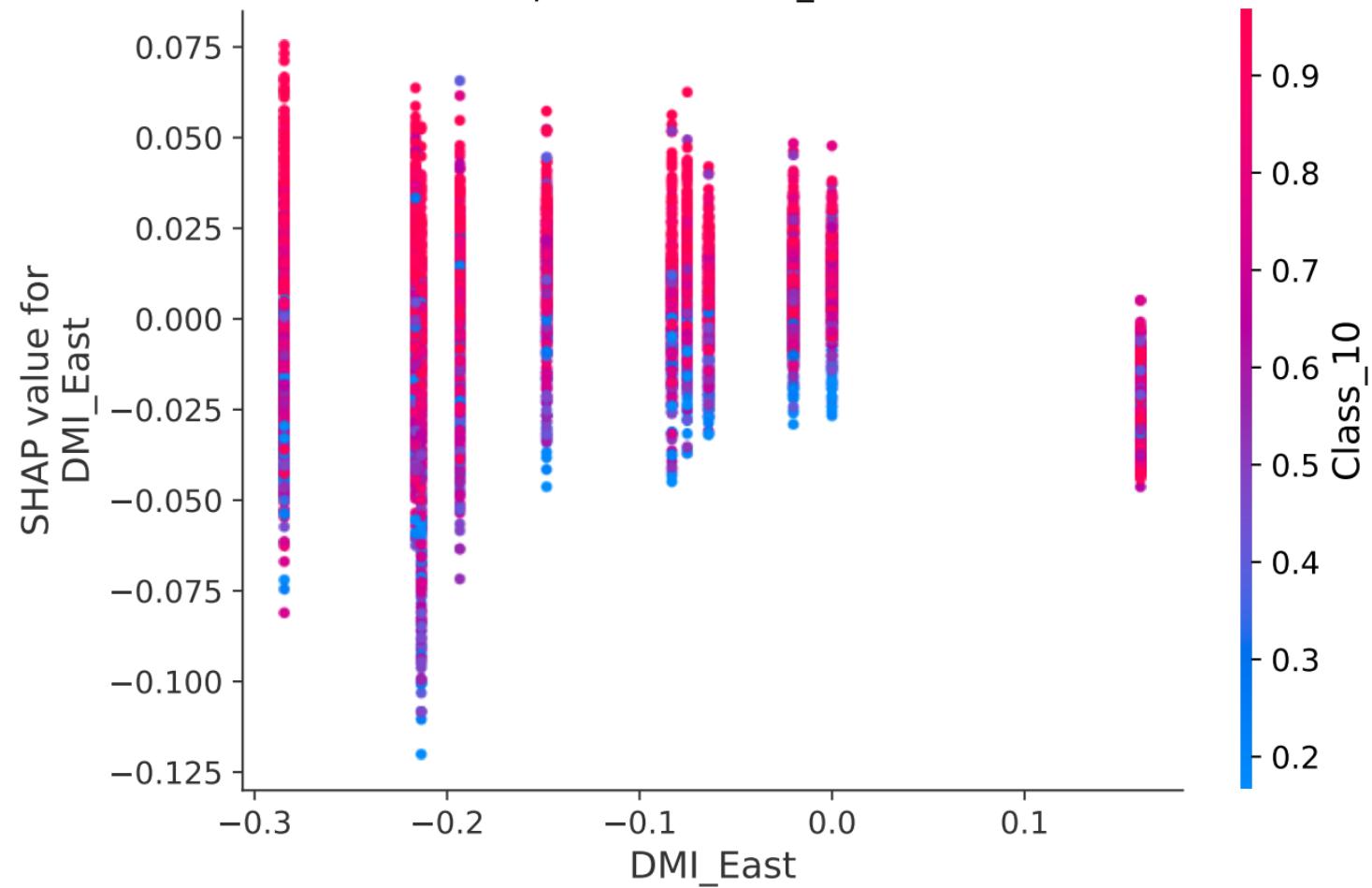


SHAP Dependence - DMI - Class 0

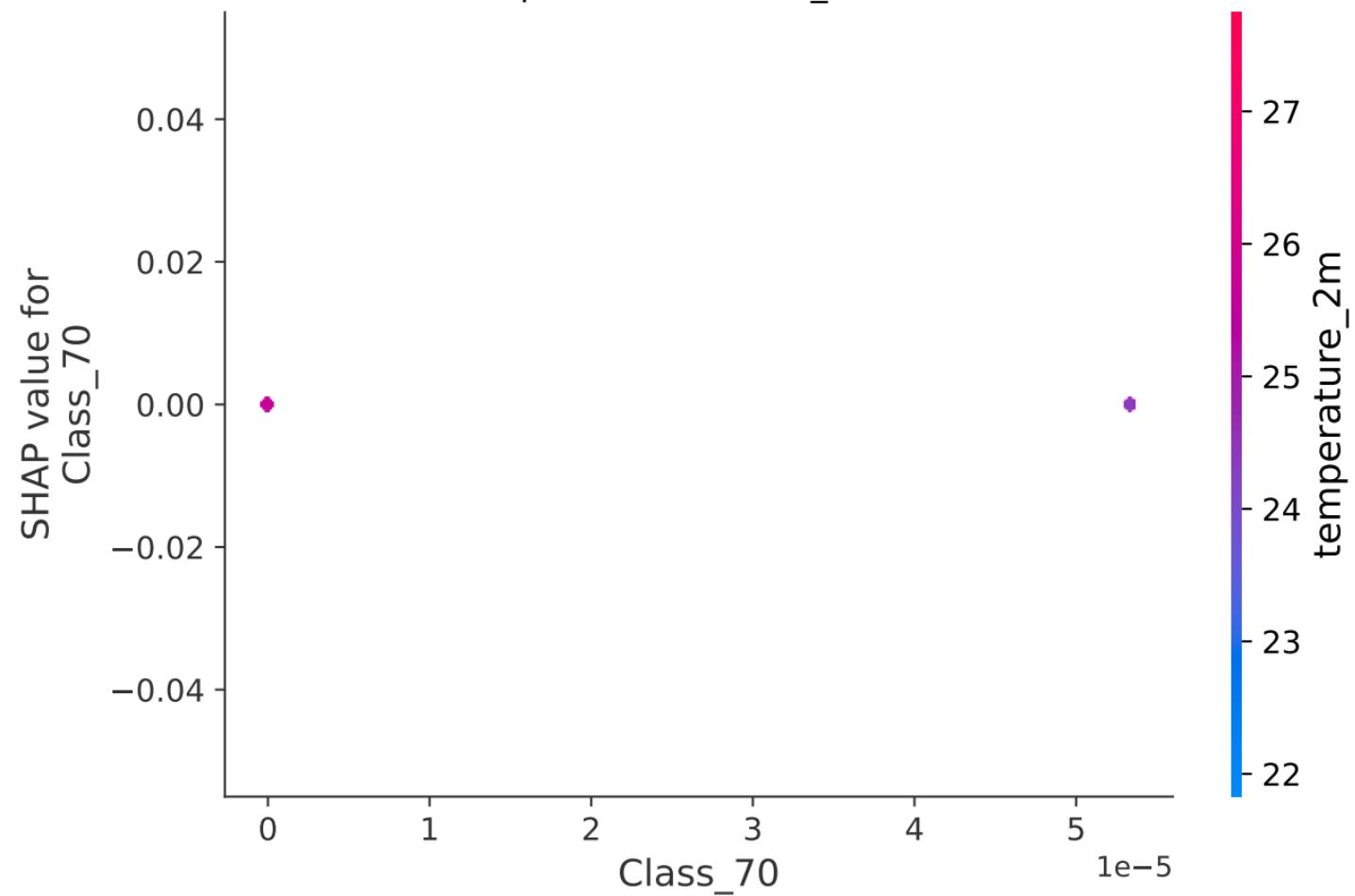
SHAP value for
DMI



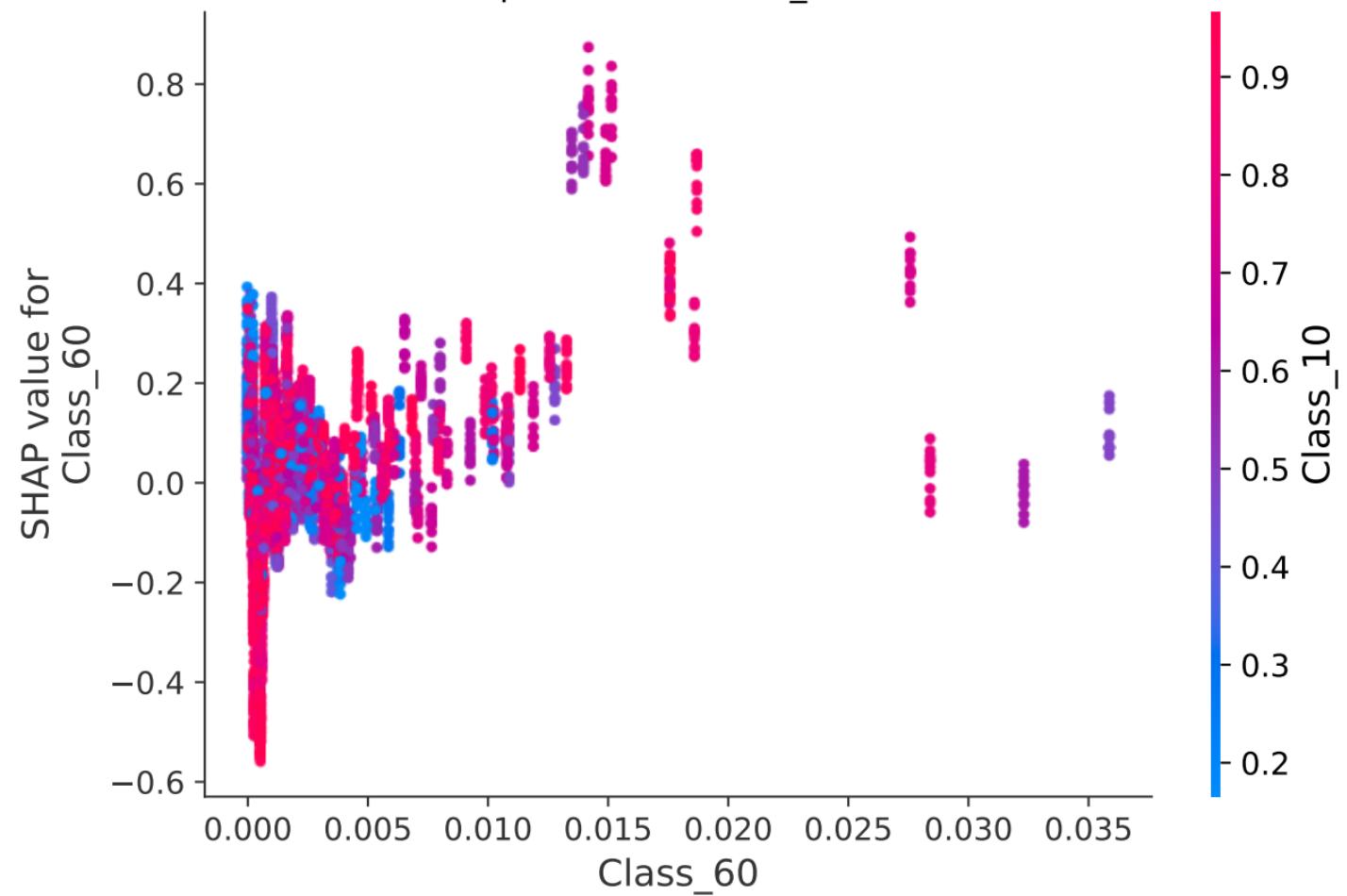
SHAP Dependence - DMI_East - Class 0



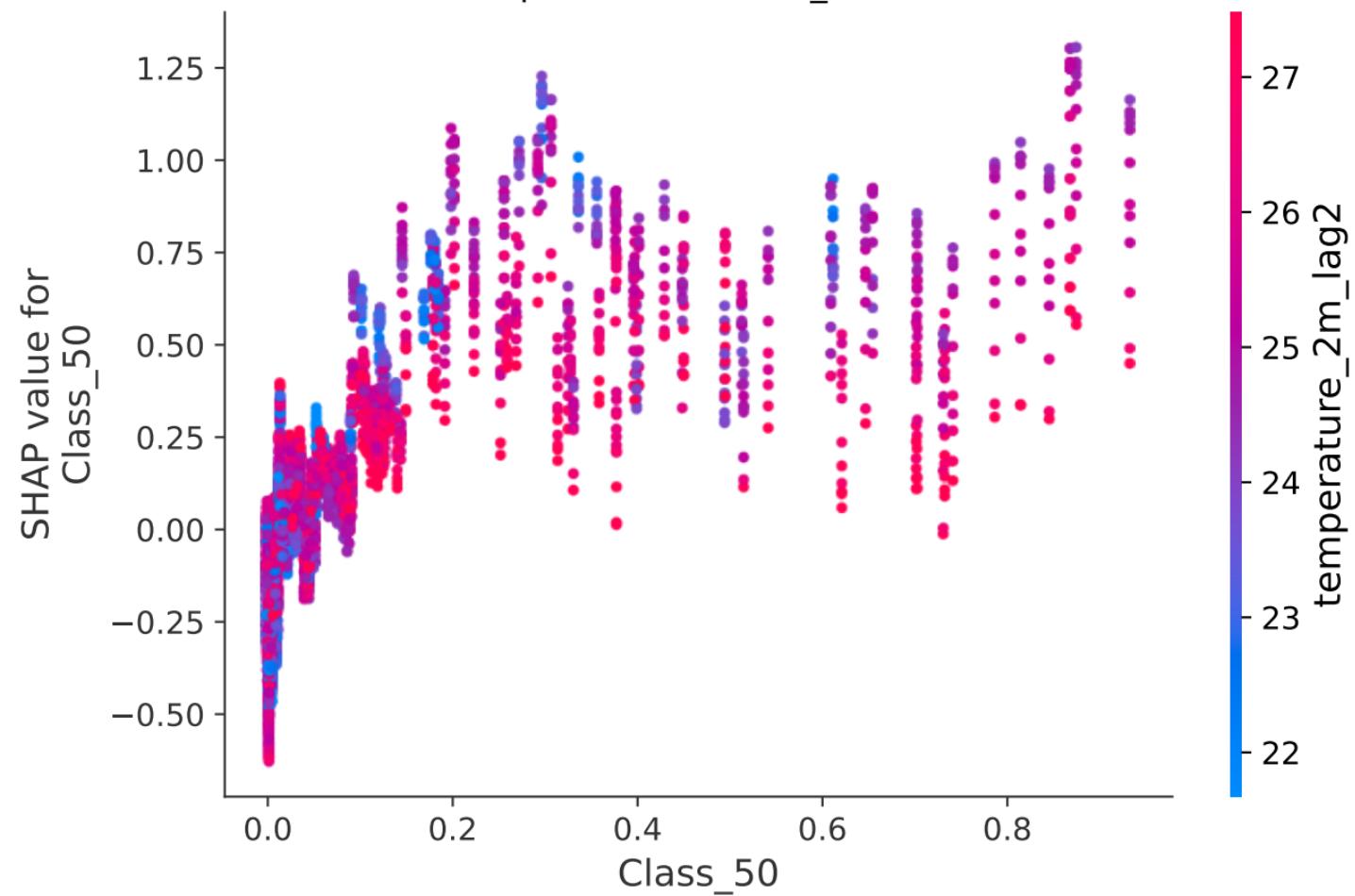
SHAP Dependence - Class_70 - Class 0



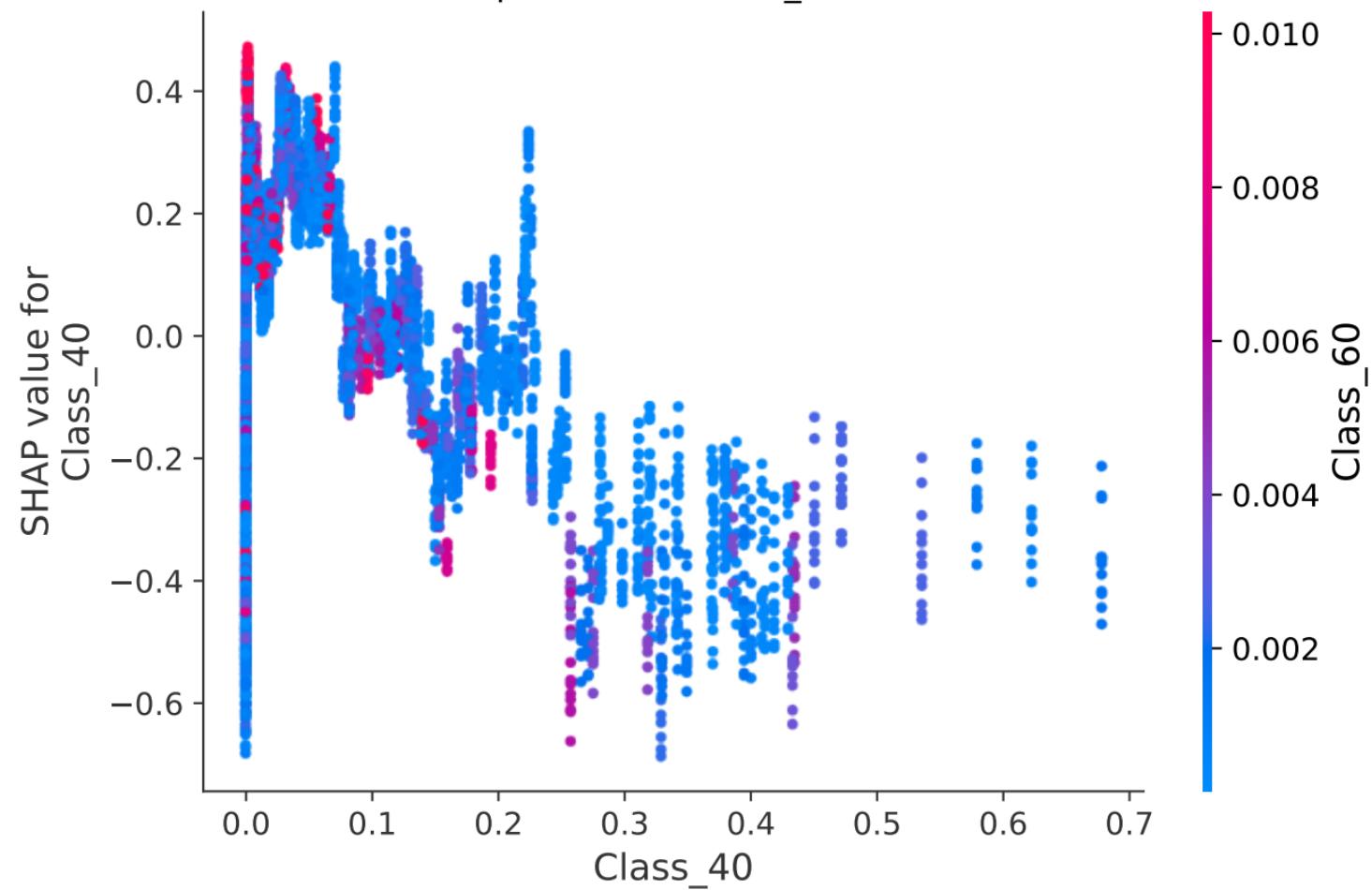
SHAP Dependence - Class_60 - Class 0



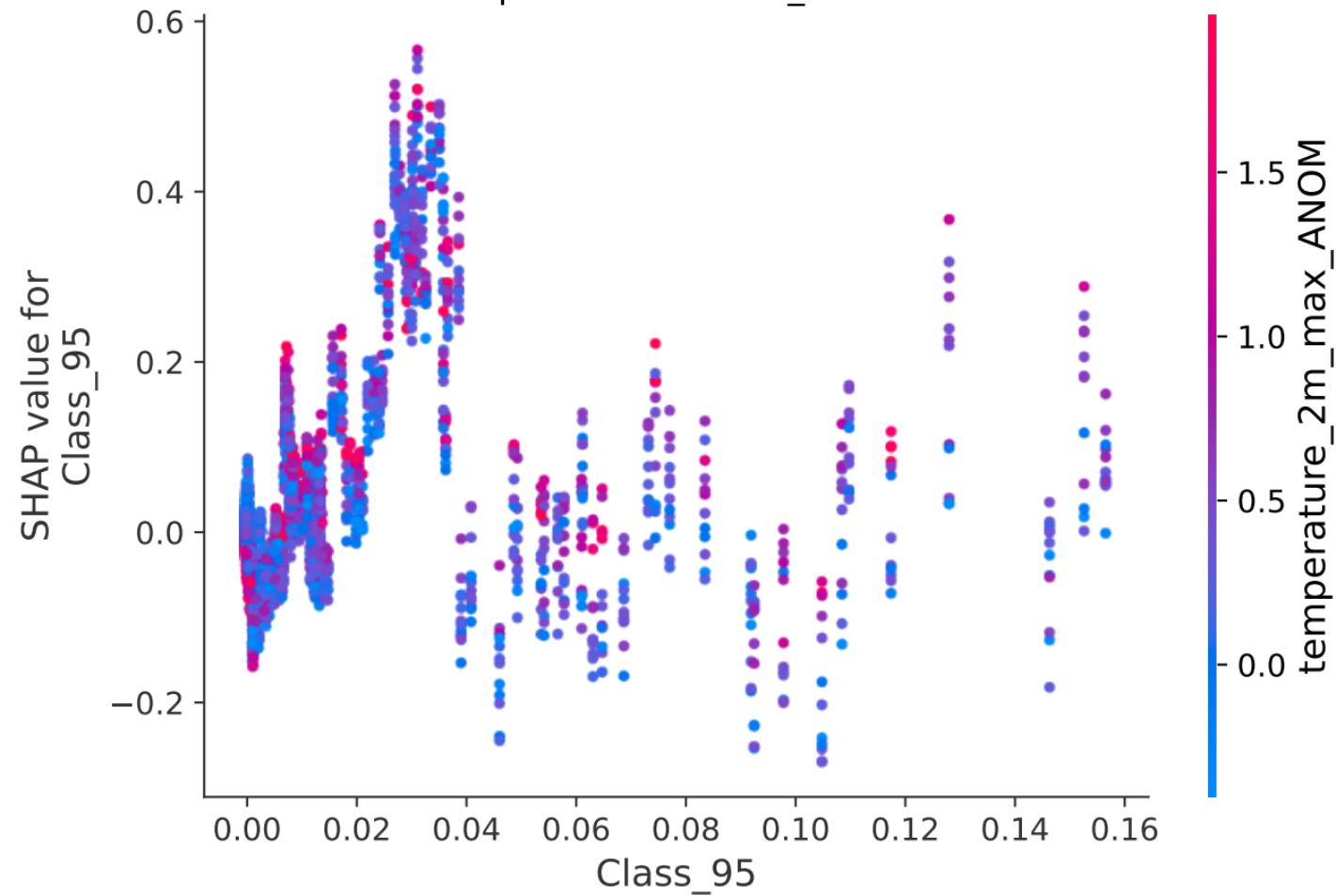
SHAP Dependence - Class_50 - Class 0



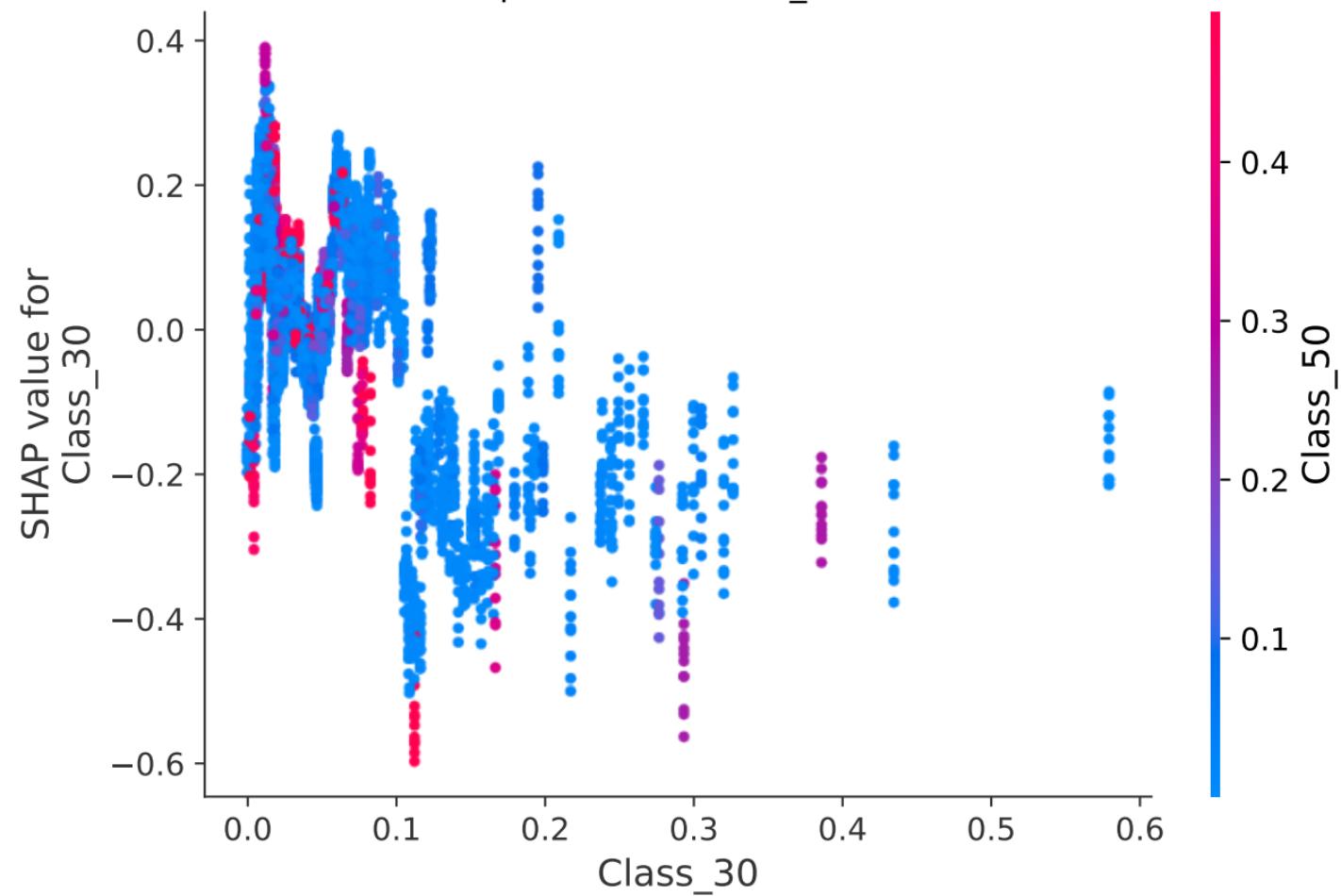
SHAP Dependence - Class_40 - Class 0



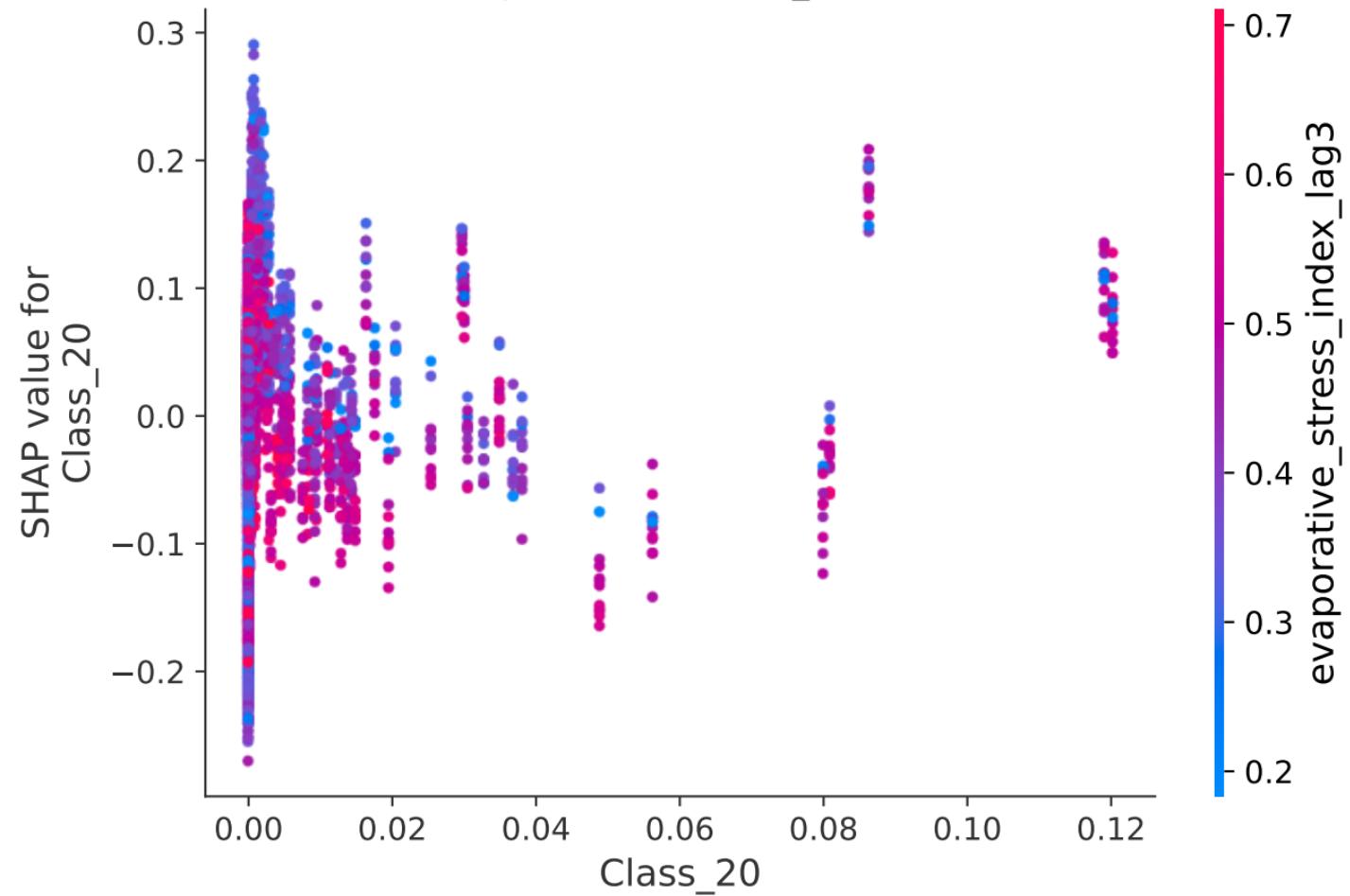
SHAP Dependence - Class_95 - Class 0



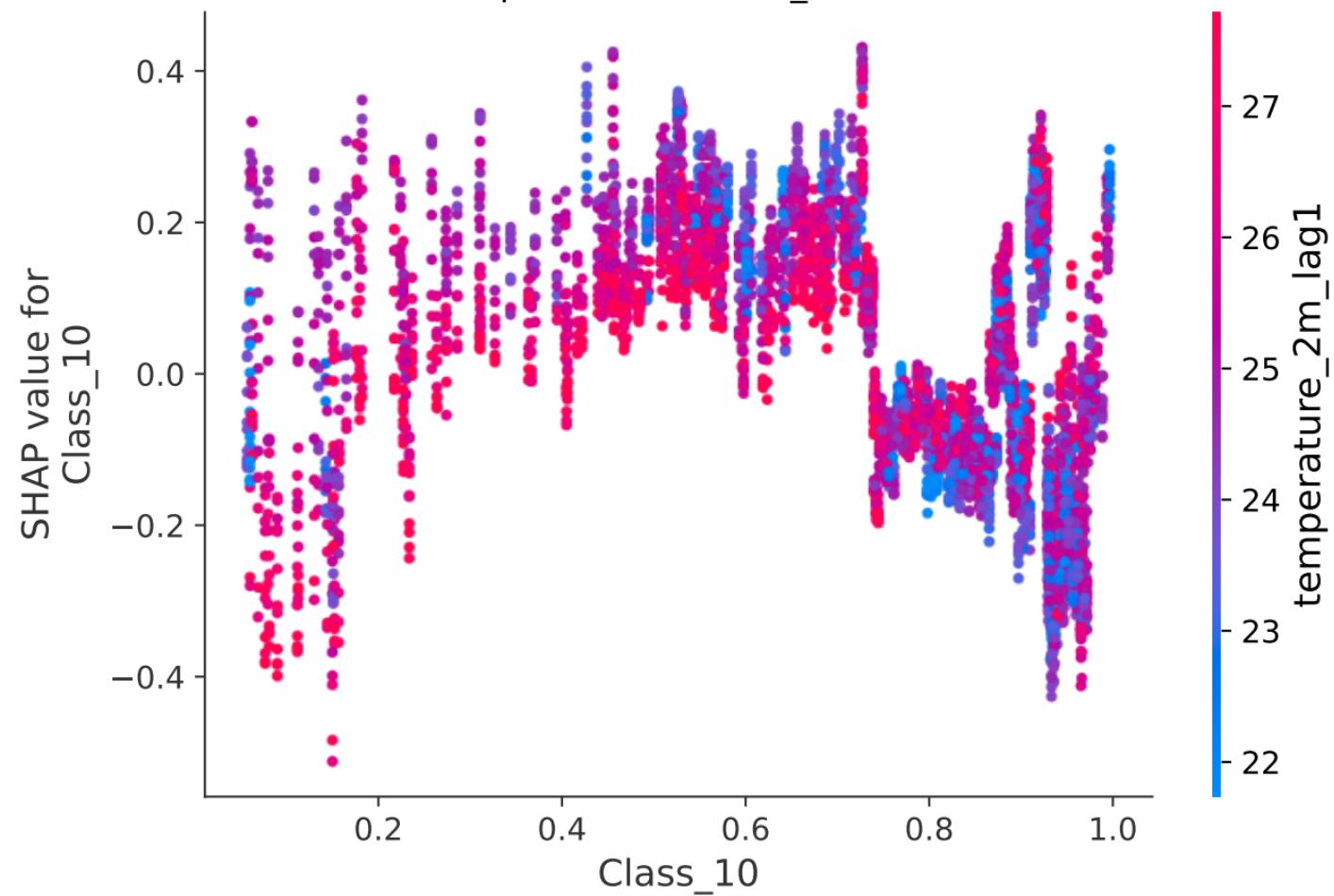
SHAP Dependence - Class_30 - Class_0



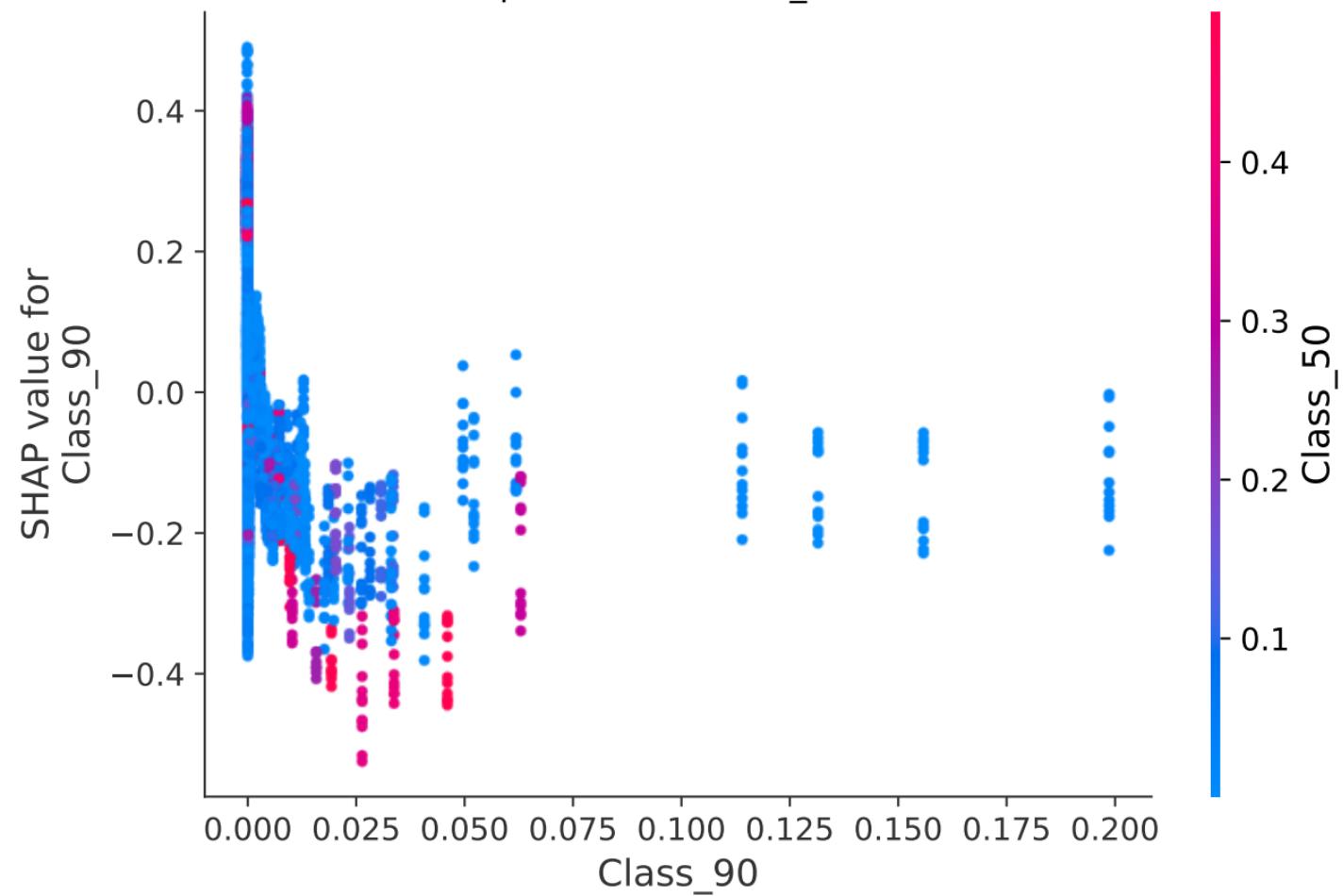
SHAP Dependence - Class_20 - Class 0



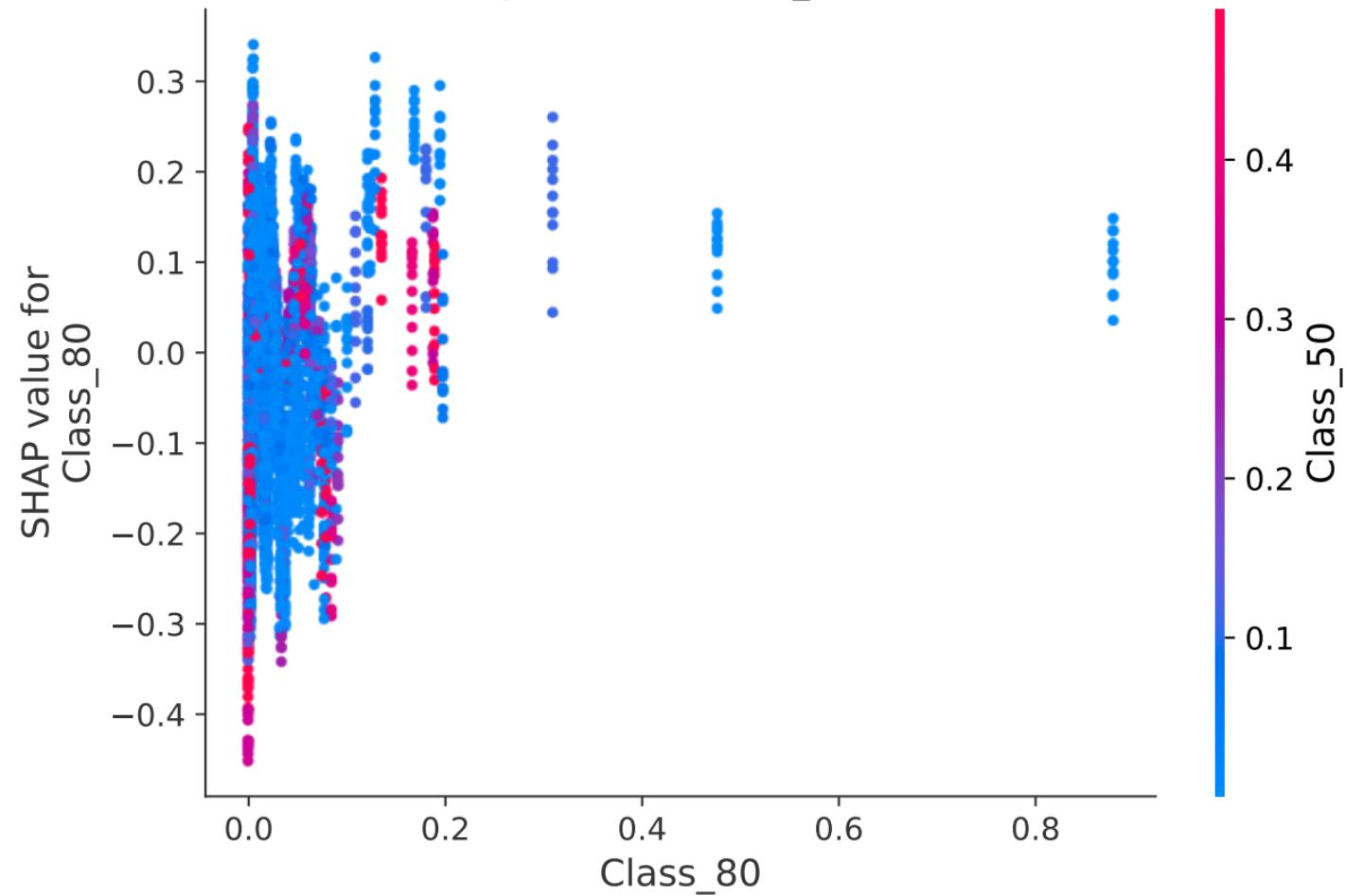
SHAP Dependence - Class_10 - Class 0



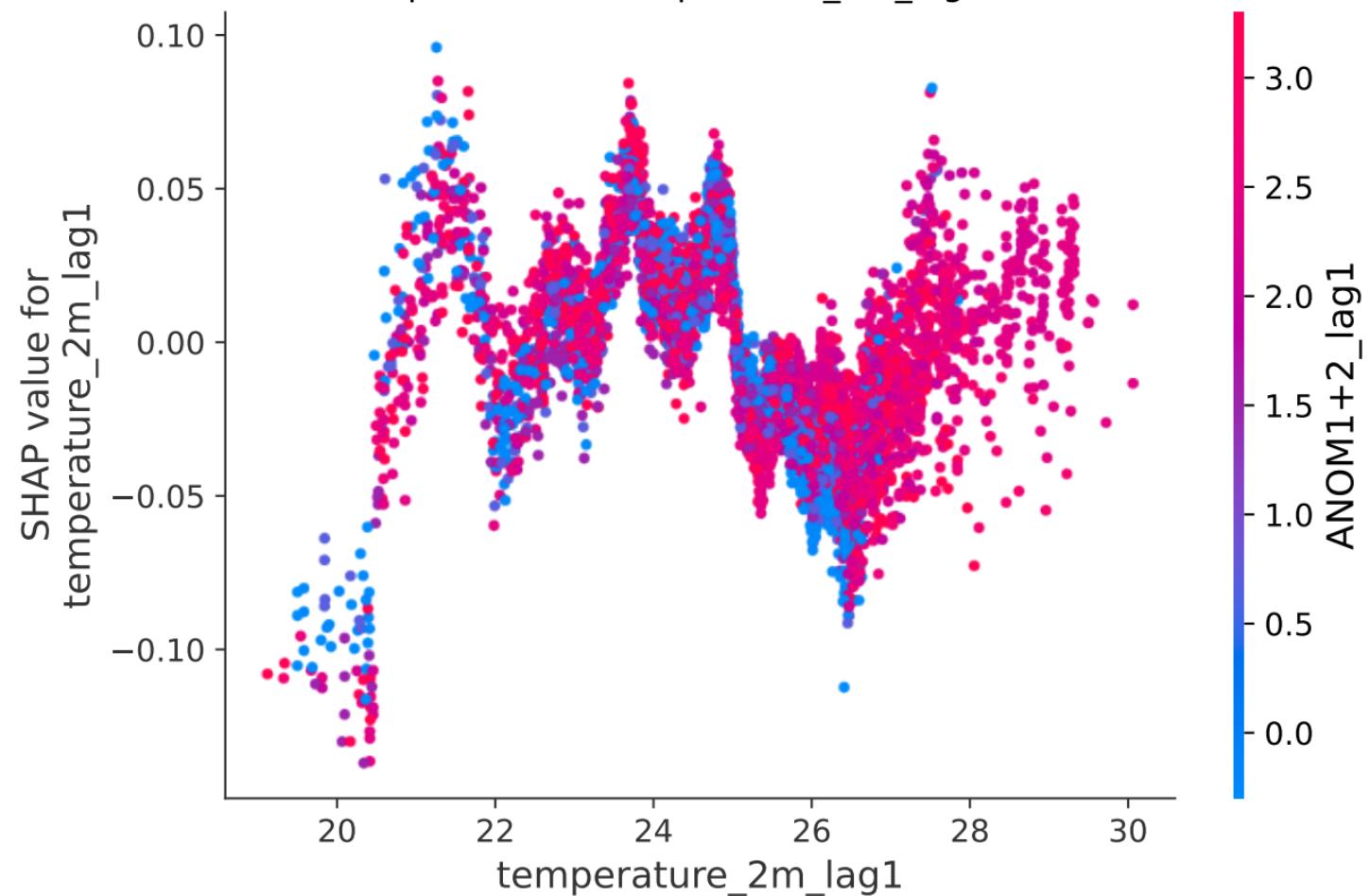
SHAP Dependence - Class_90 - Class 0



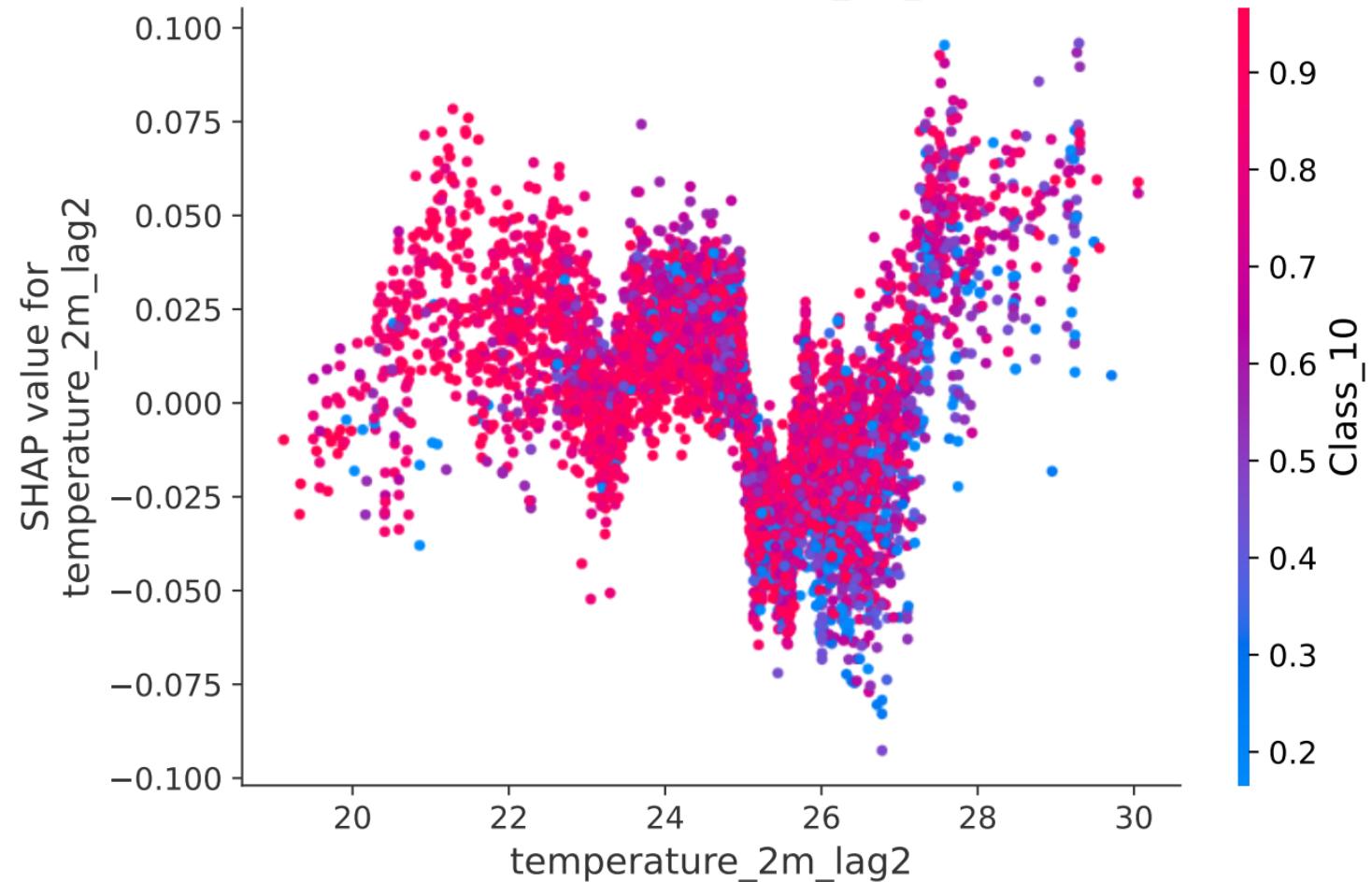
SHAP Dependence - Class_80 - Class_0



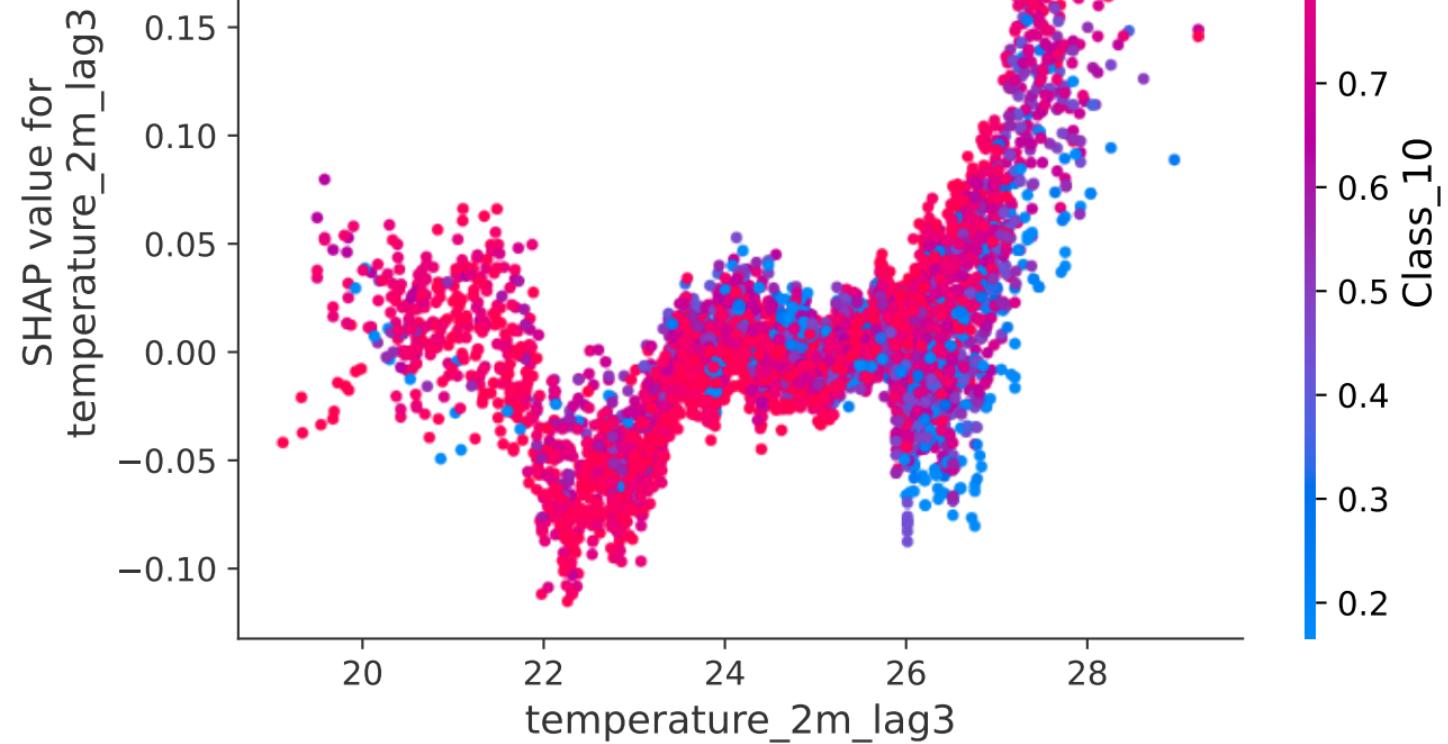
SHAP Dependence - temperature_2m_lag1 - Class 0



SHAP Dependence - temperature_2m_lag2 - Class 0



SHAP Dependence - temperature_2m_lag3 - Class 0



SHAP Dependence - temperature_2m_min_lag1 - Class 0

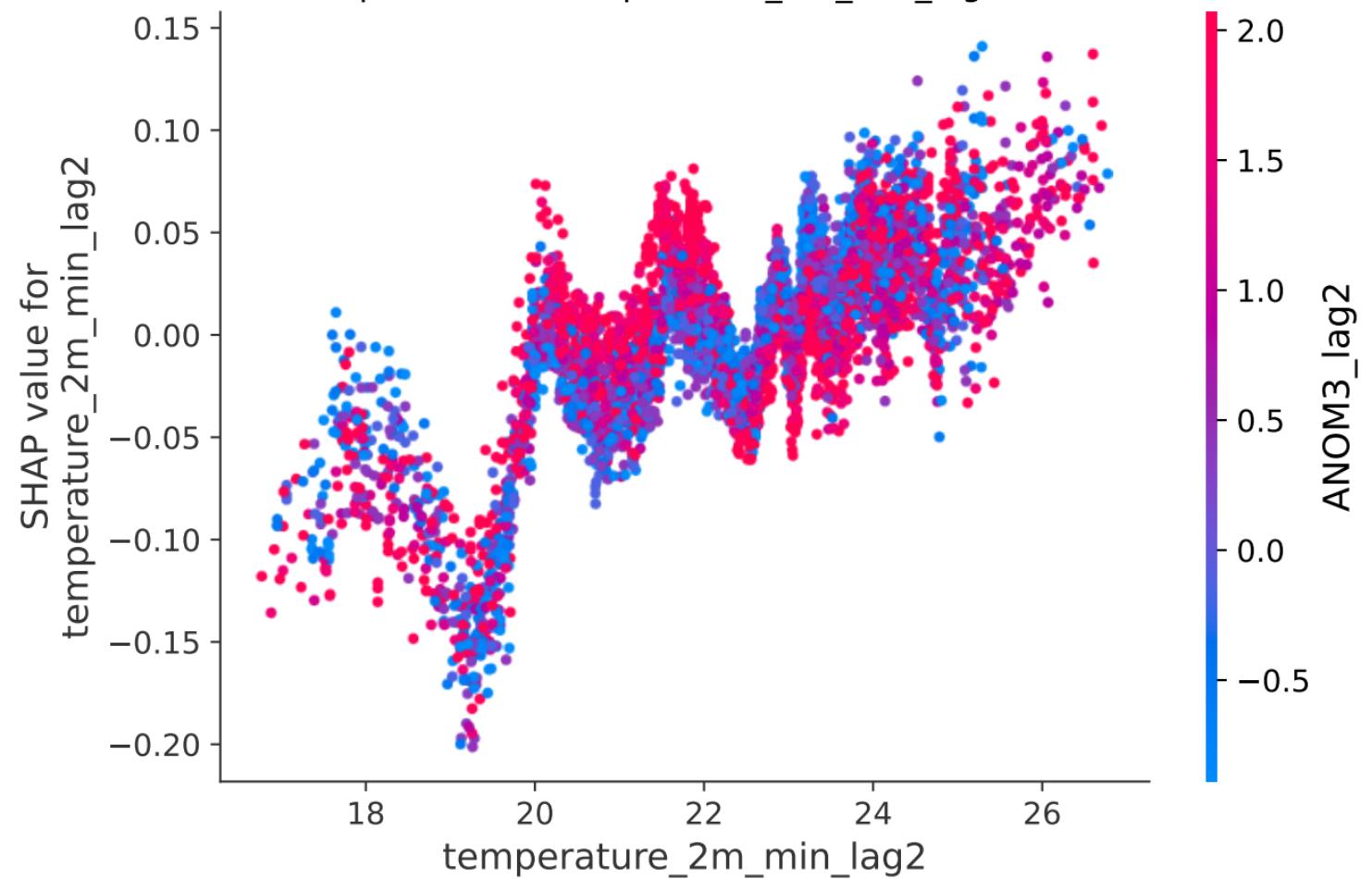
SHAP value for
temperature_2m_min_lag1

-0.15
-0.10
-0.05
0.00
0.05
0.10

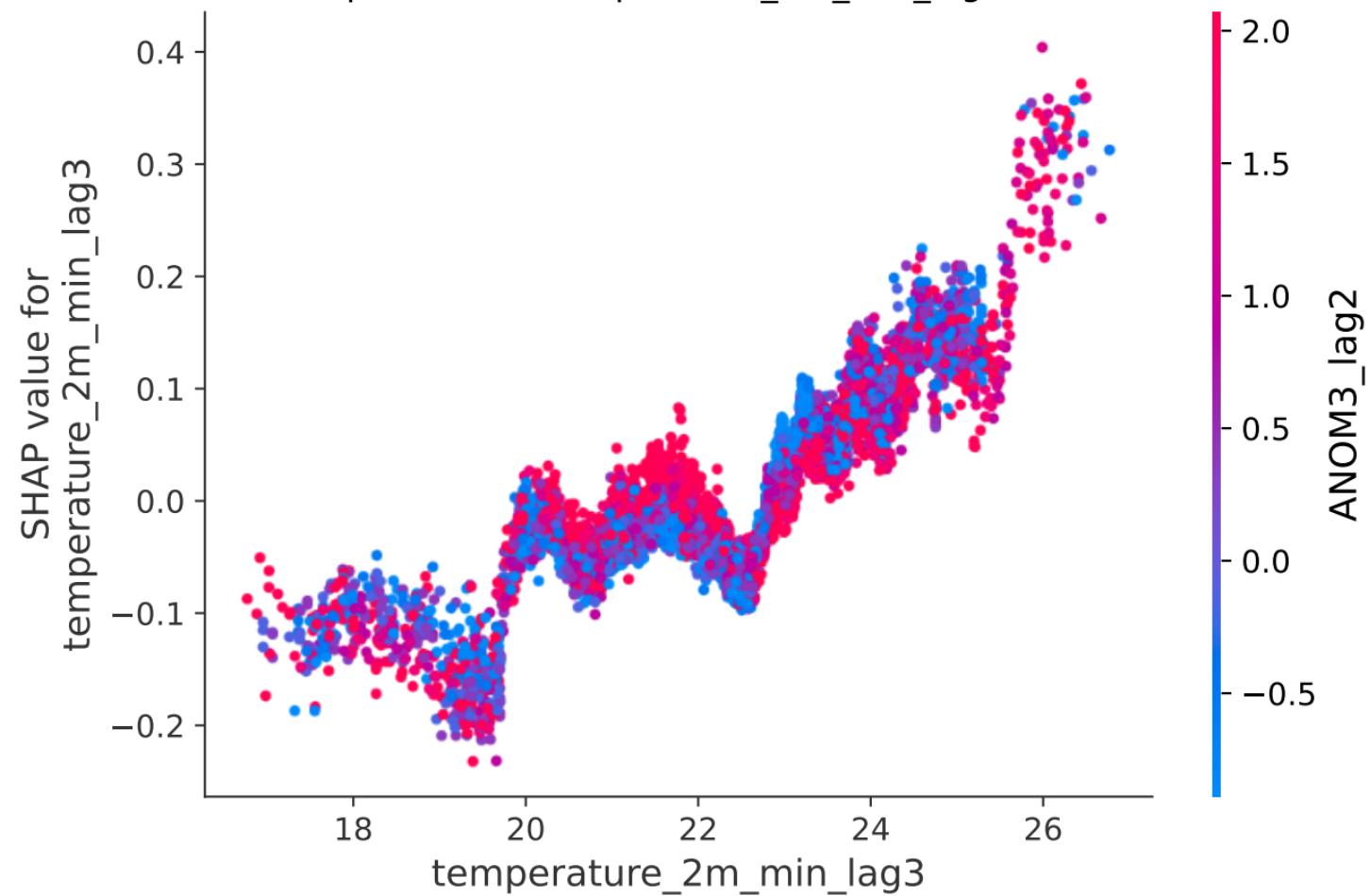
18 20 22 24 26
temperature_2m_min_lag1

0.2
0.3
0.4
0.5
0.6
0.7
evaporative_stress_index_lag1

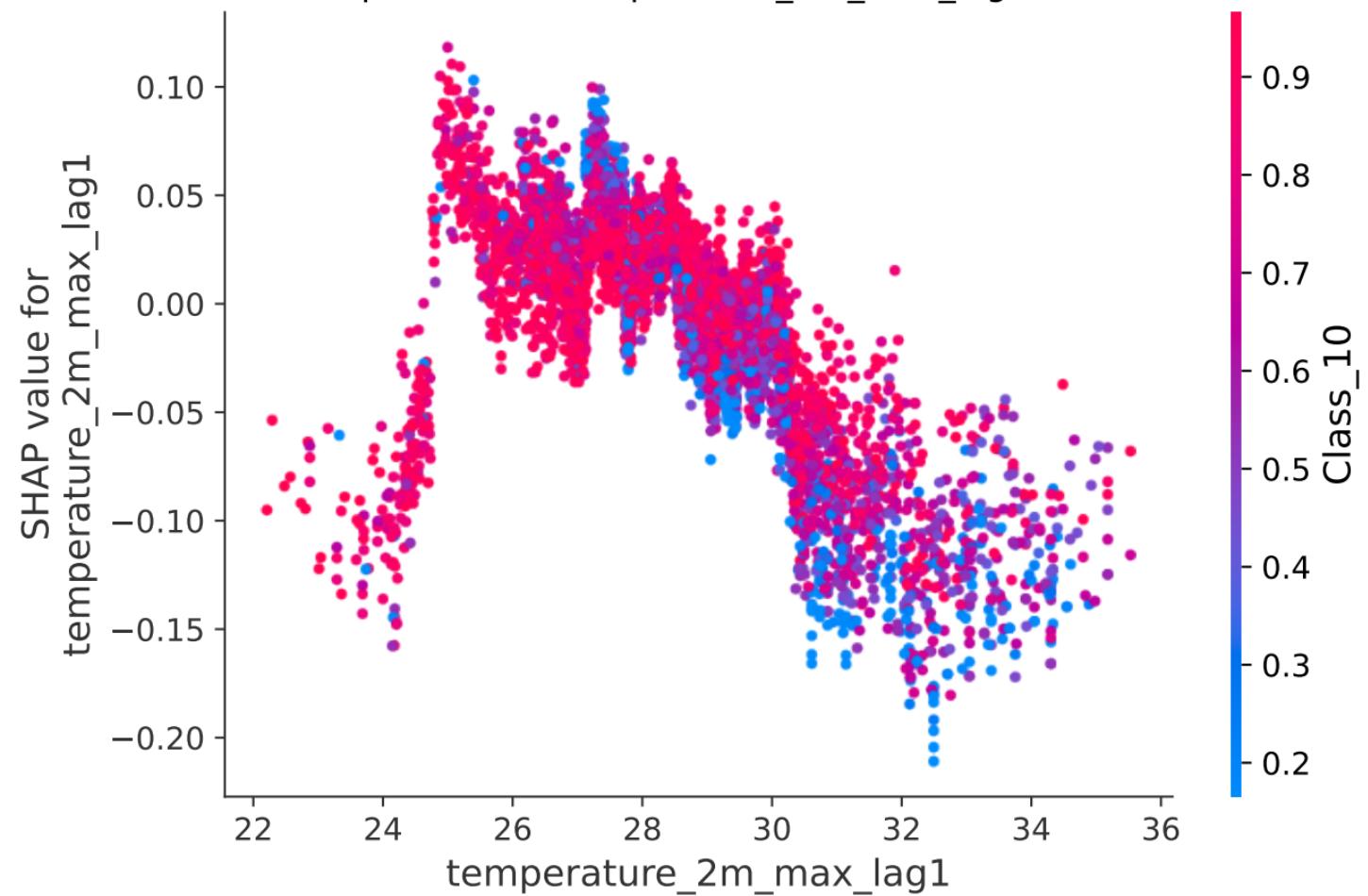
SHAP Dependence - temperature_2m_min_lag2 - Class 0



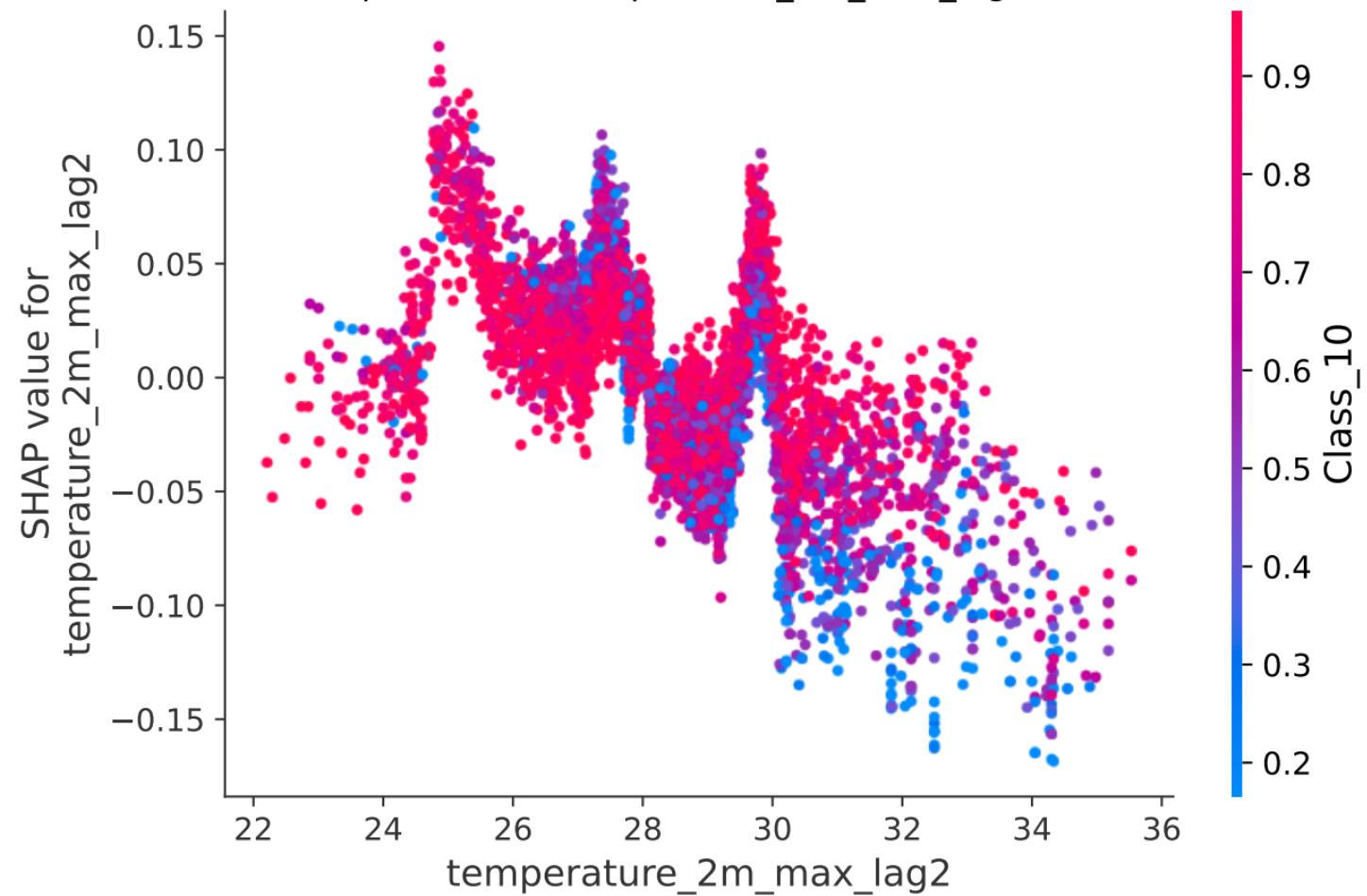
SHAP Dependence - temperature_2m_min_lag3 - Class 0



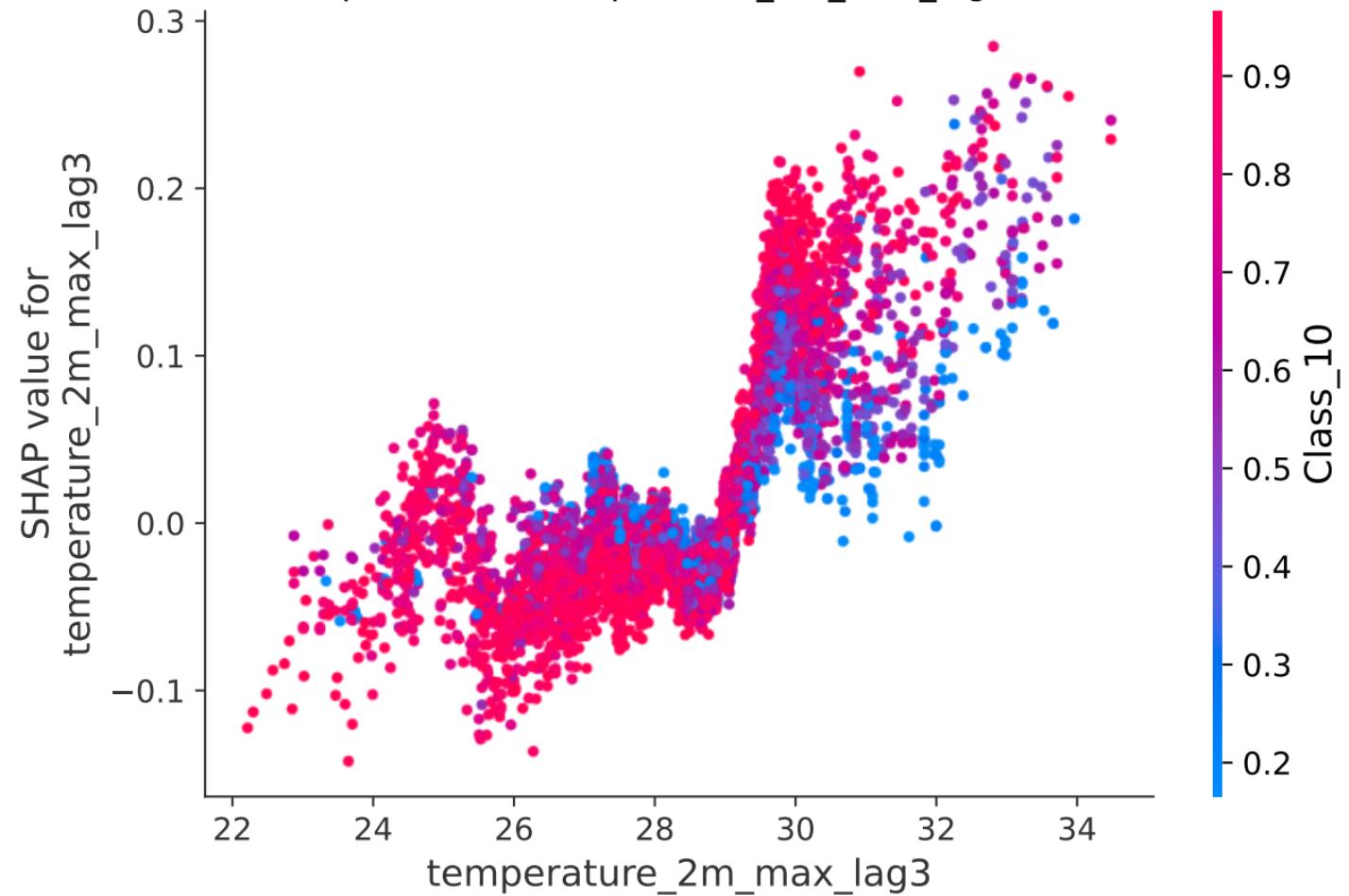
SHAP Dependence - temperature_2m_max_lag1 - Class 0



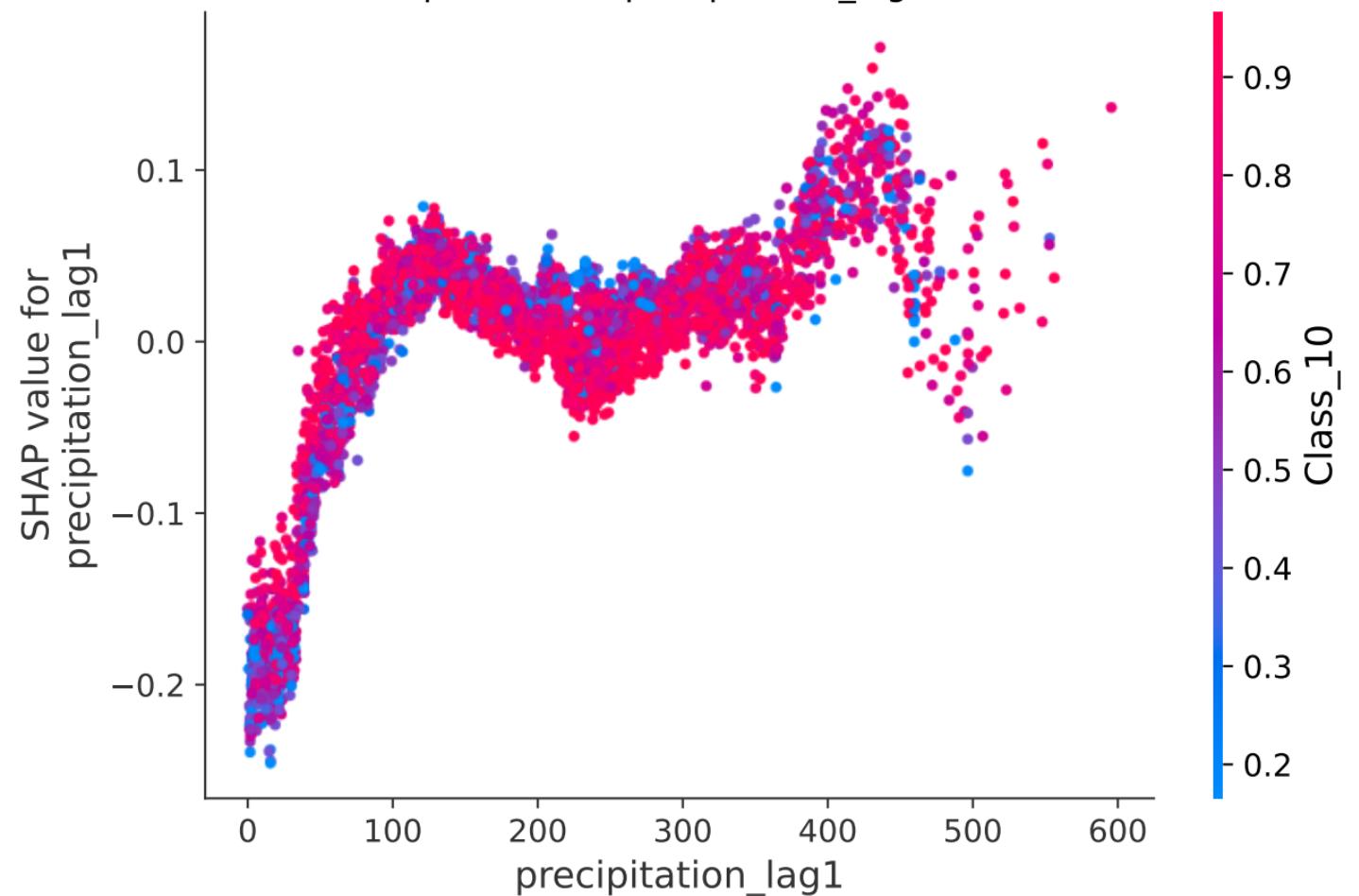
SHAP Dependence - temperature_2m_max_lag2 - Class 0



SHAP Dependence - temperature_2m_max_lag3 - Class 0

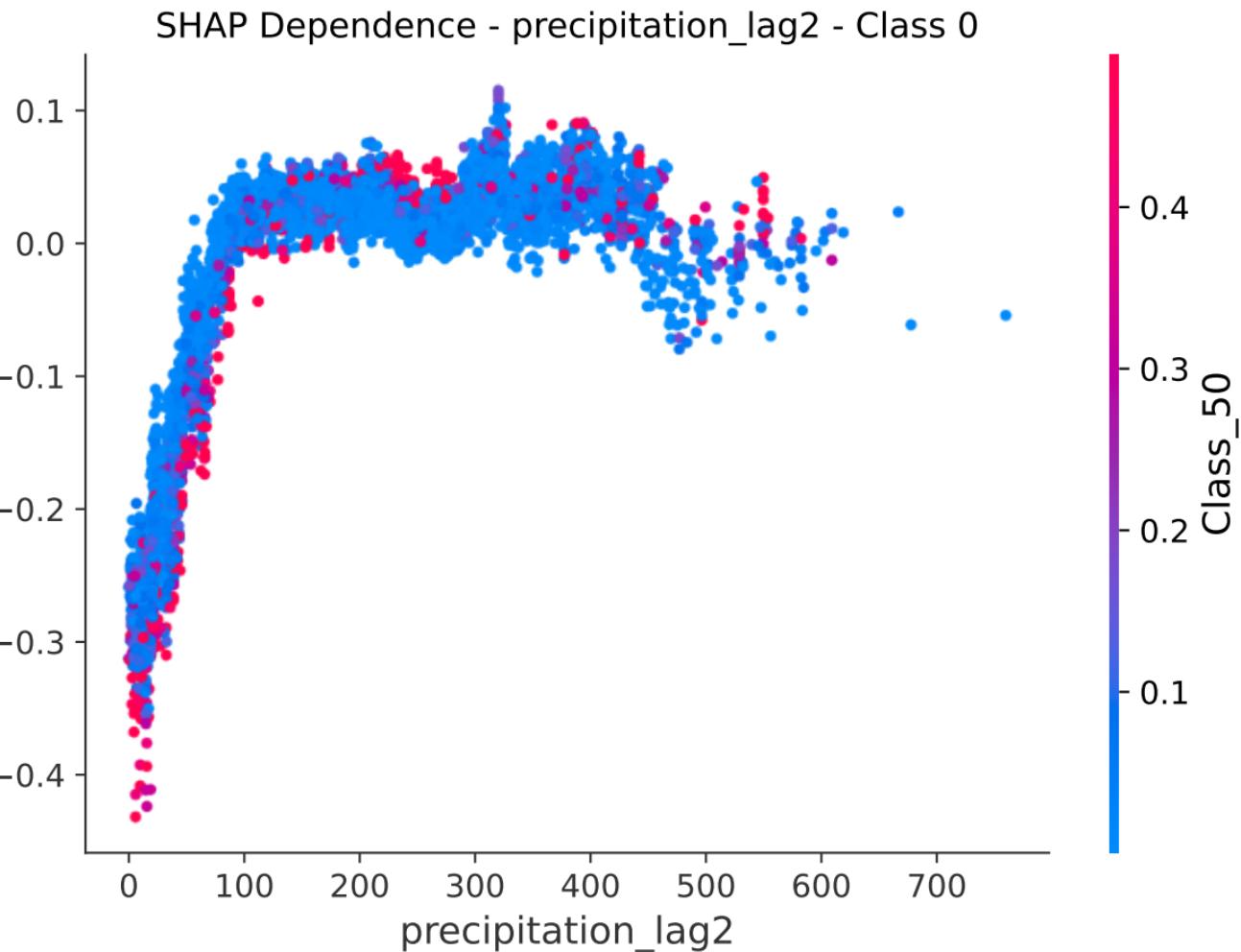


SHAP Dependence - precipitation_lag1 - Class 0

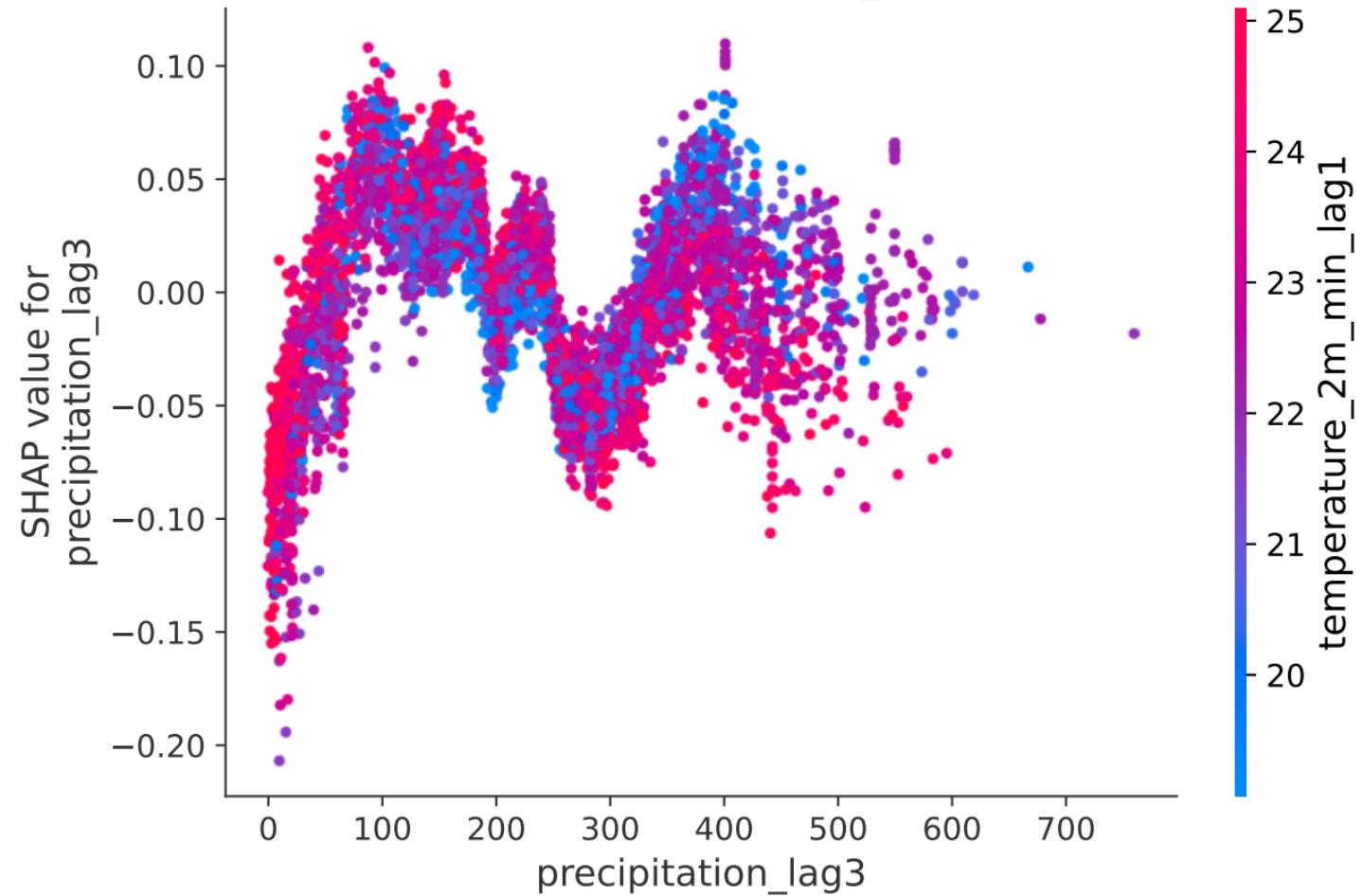


SHAP Dependence - precipitation_lag2 - Class 0

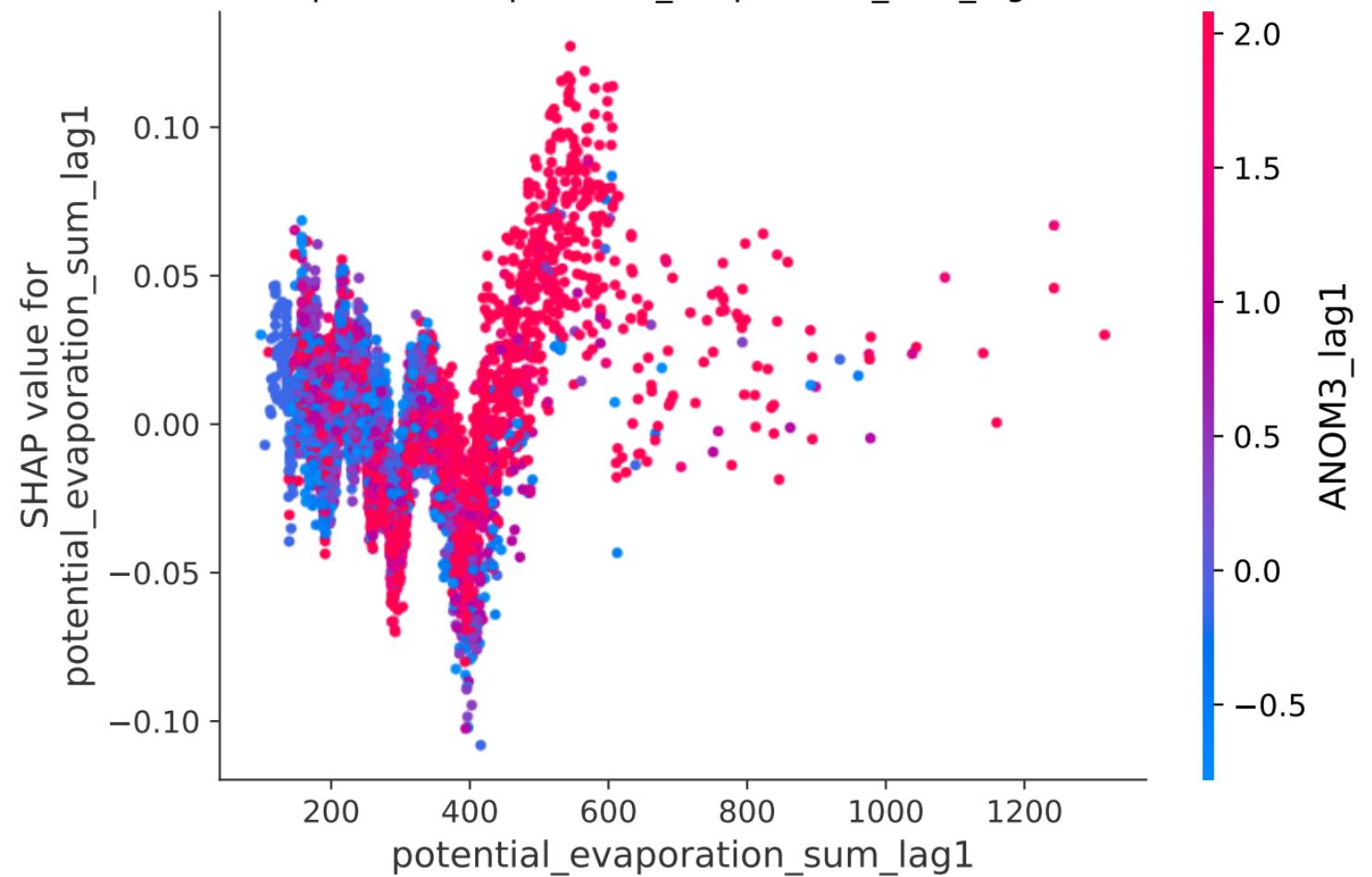
SHAP value for
precipitation_lag2



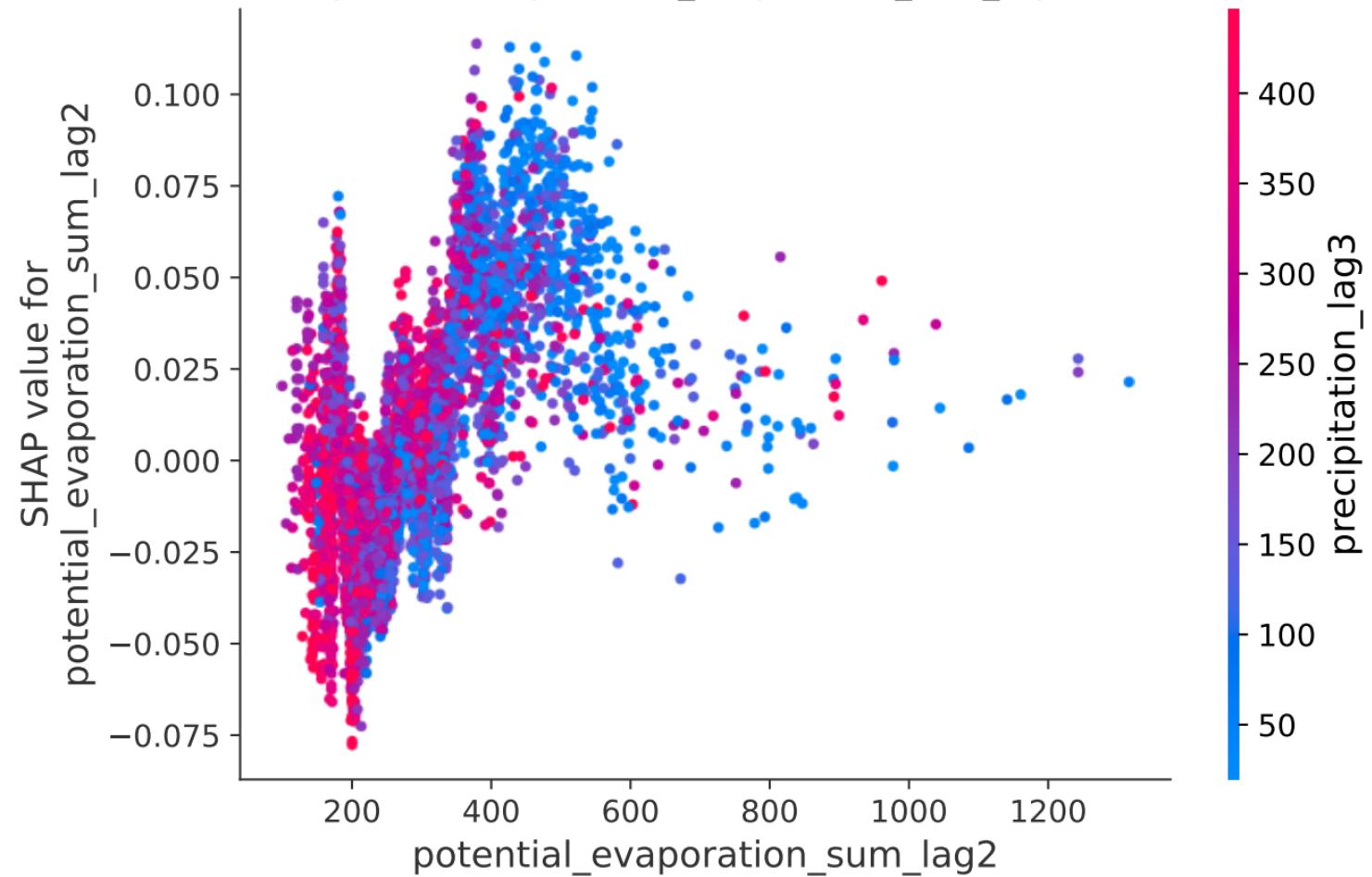
SHAP Dependence - precipitation_lag3 - Class 0



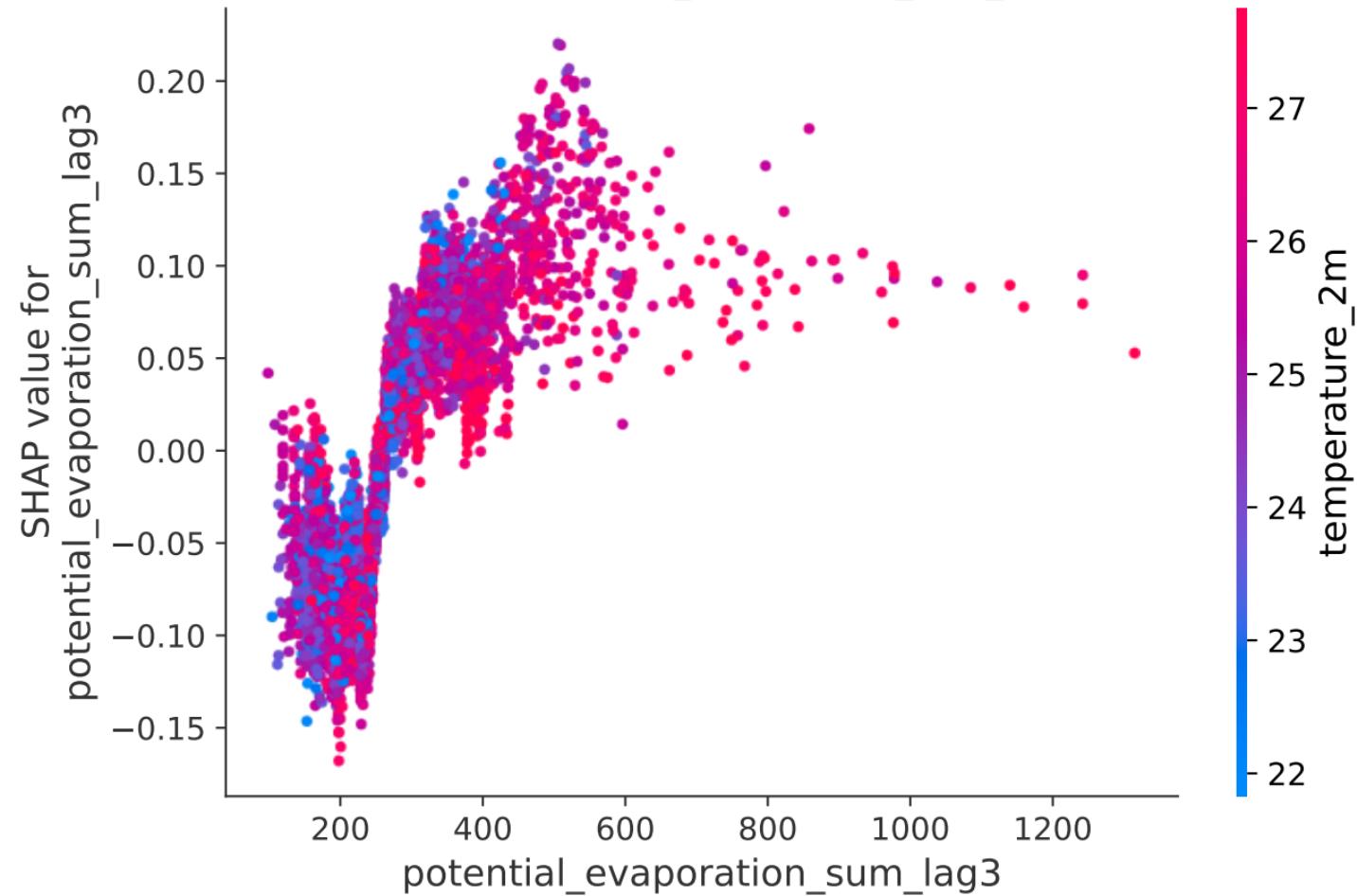
SHAP Dependence - potential_evaporation_sum_lag1 - Class 0



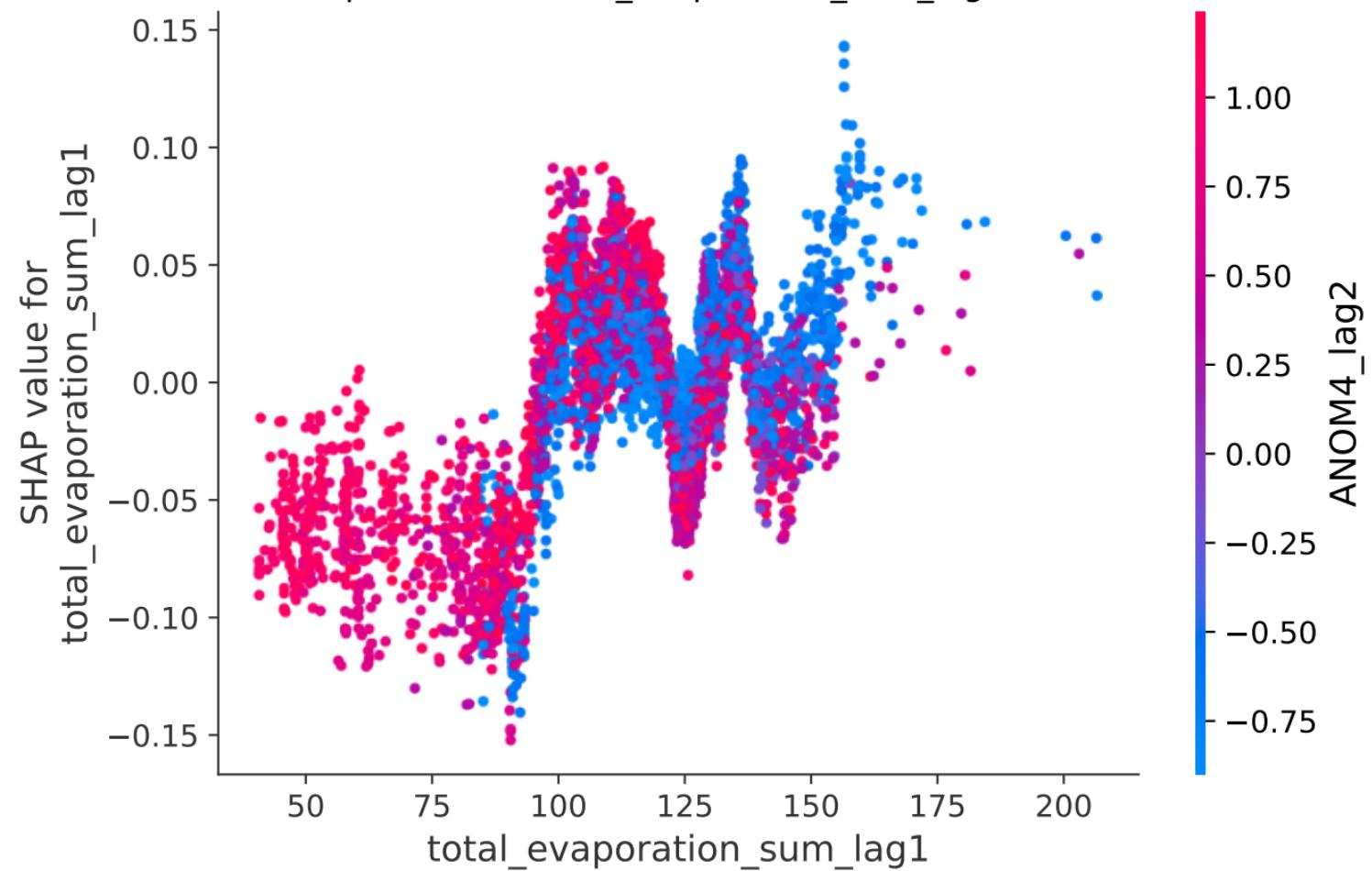
SHAP Dependence - potential_evaporation_sum_lag2 - Class 0



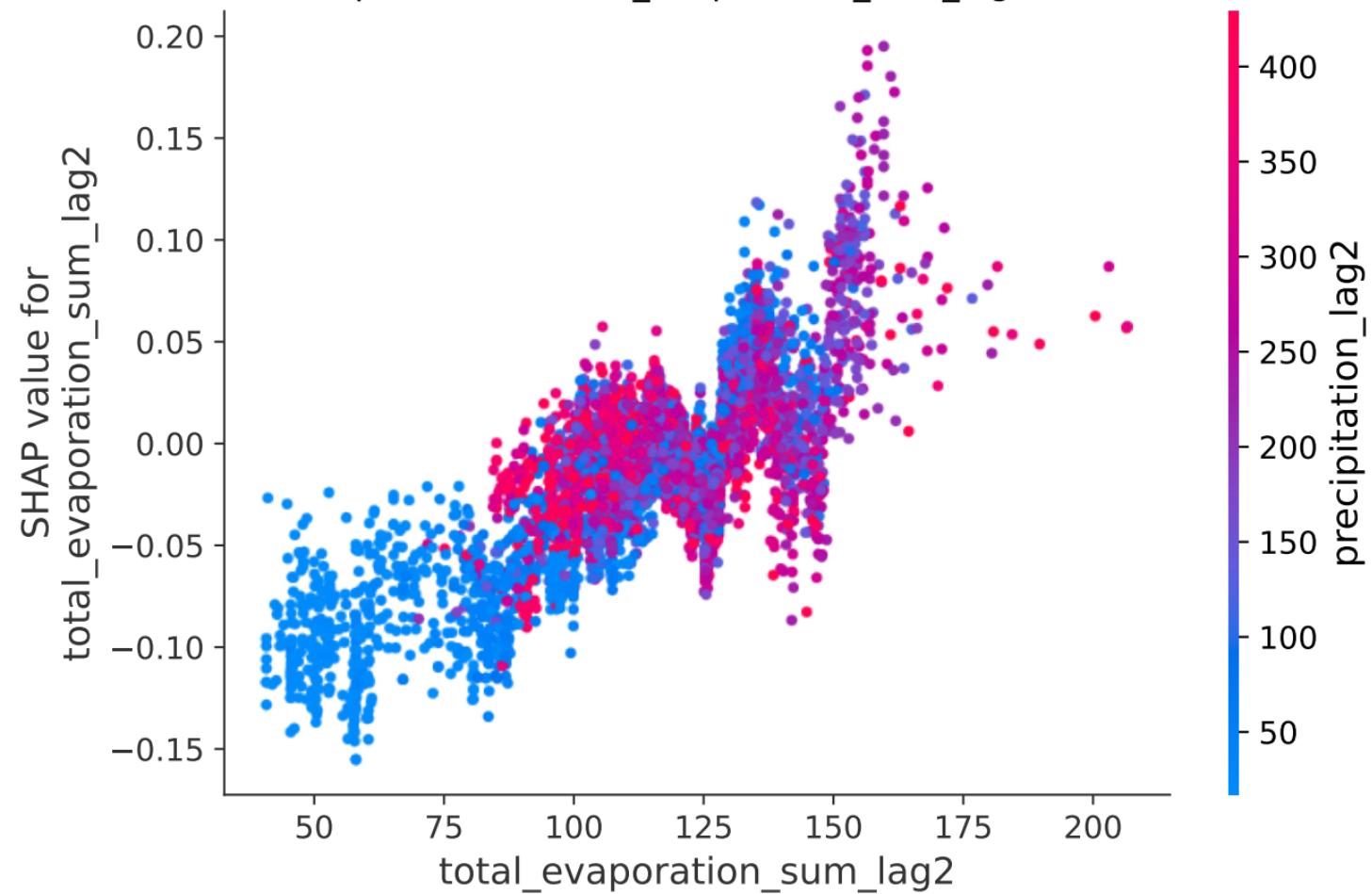
SHAP Dependence - potential_evaporation_sum_lag3 - Class 0



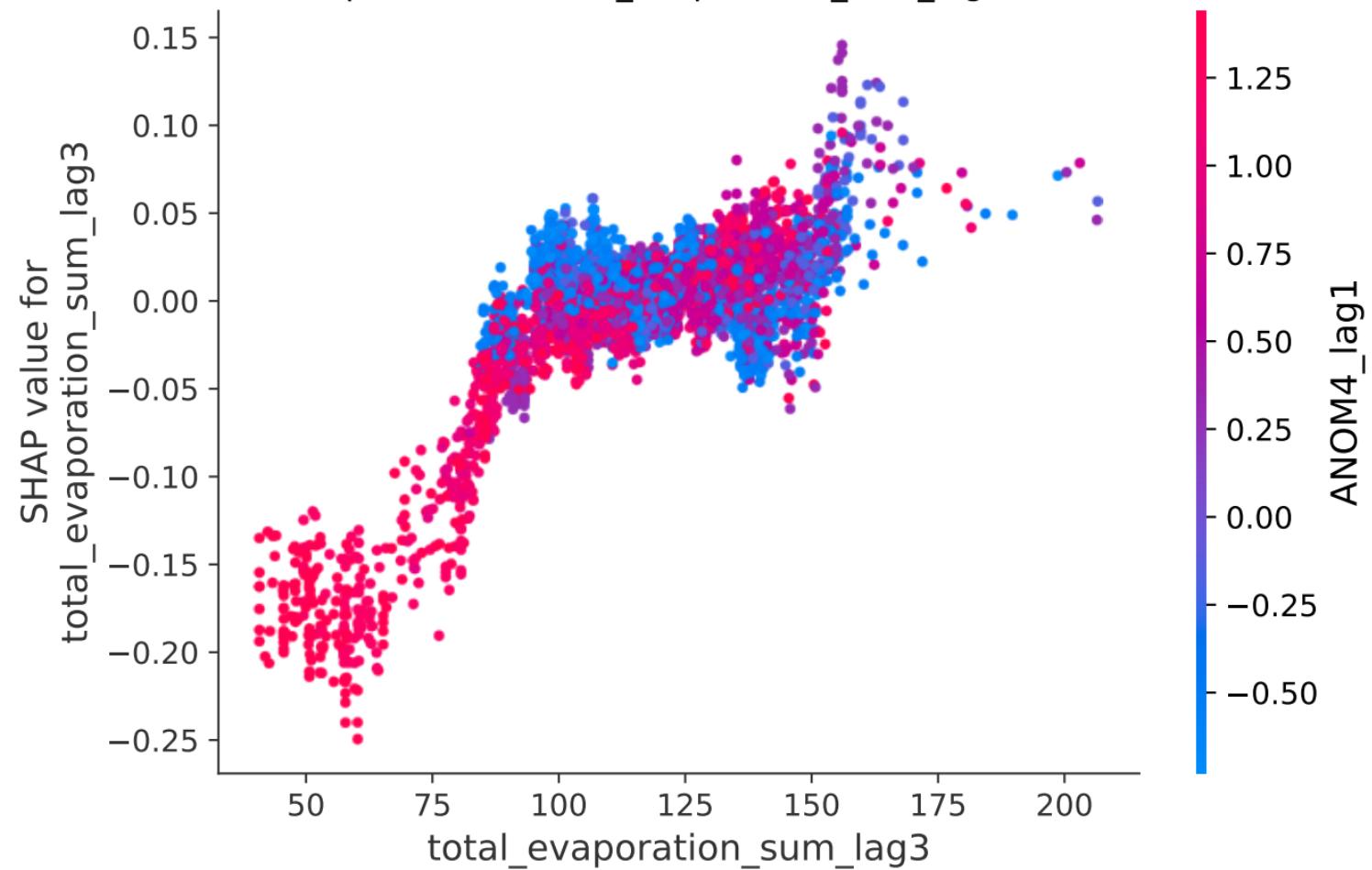
SHAP Dependence - total_evaporation_sum_lag1 - Class 0



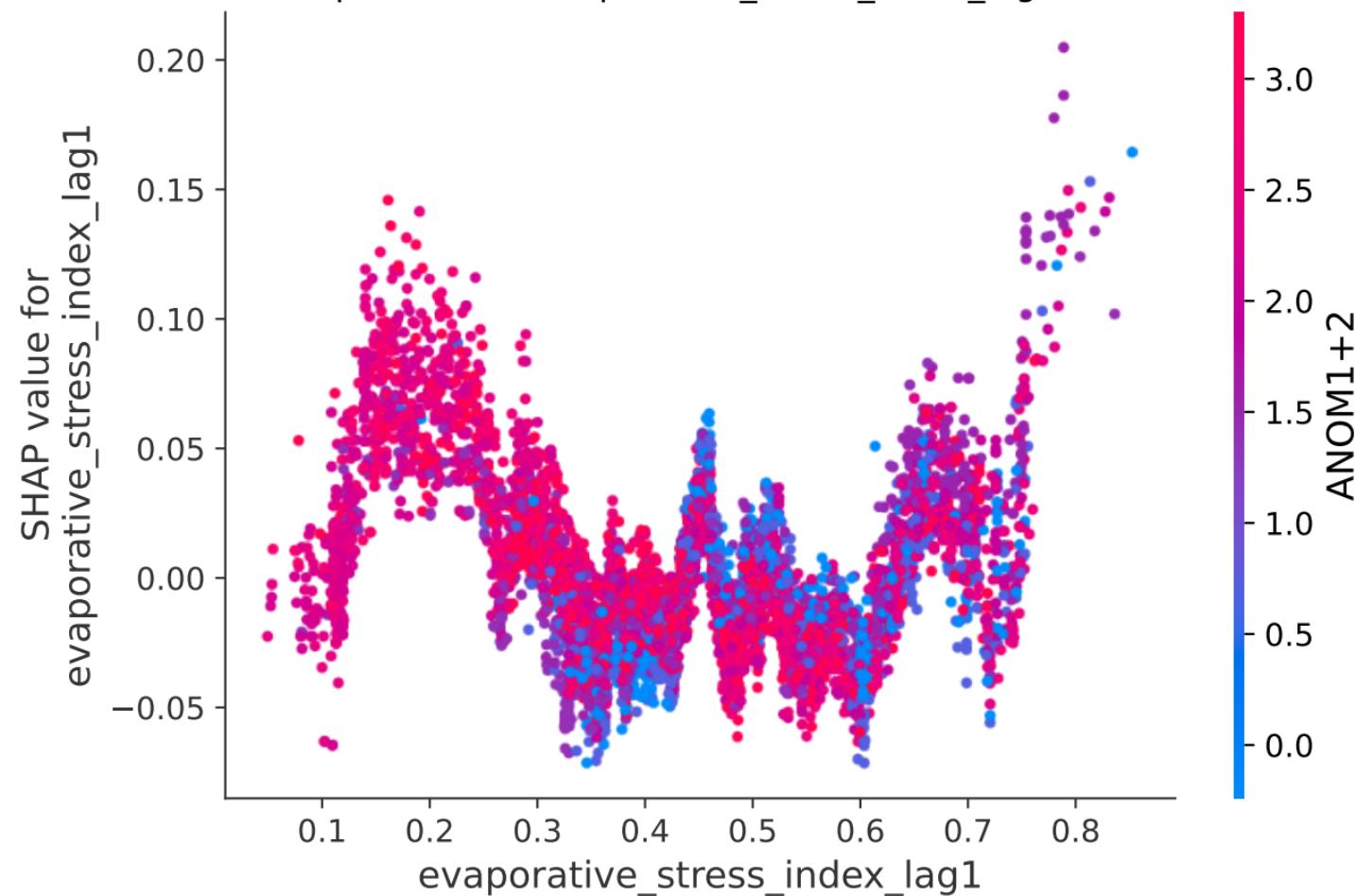
SHAP Dependence - total_evaporation_sum_lag2 - Class 0



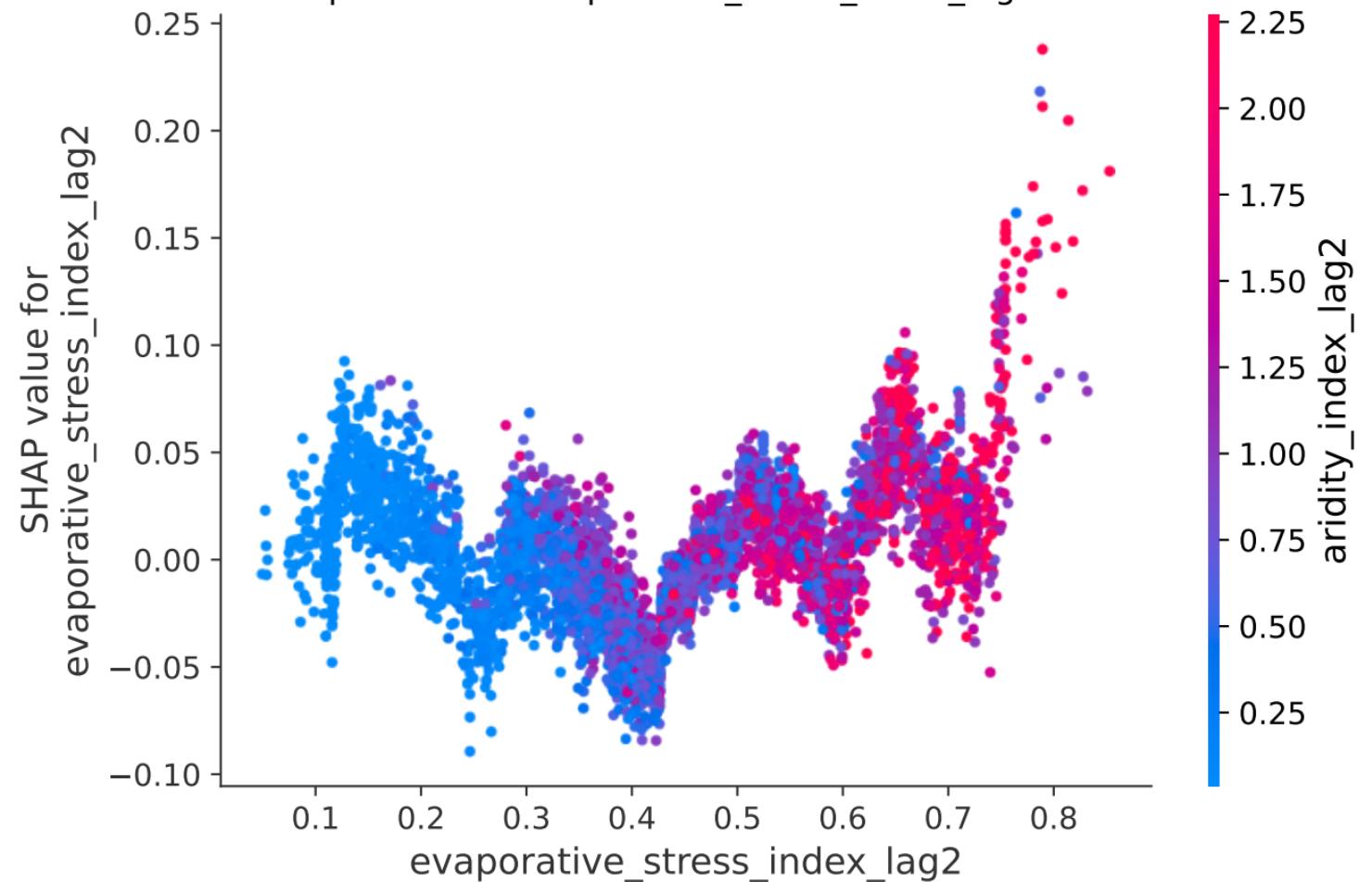
SHAP Dependence - total_evaporation_sum_lag3 - Class 0



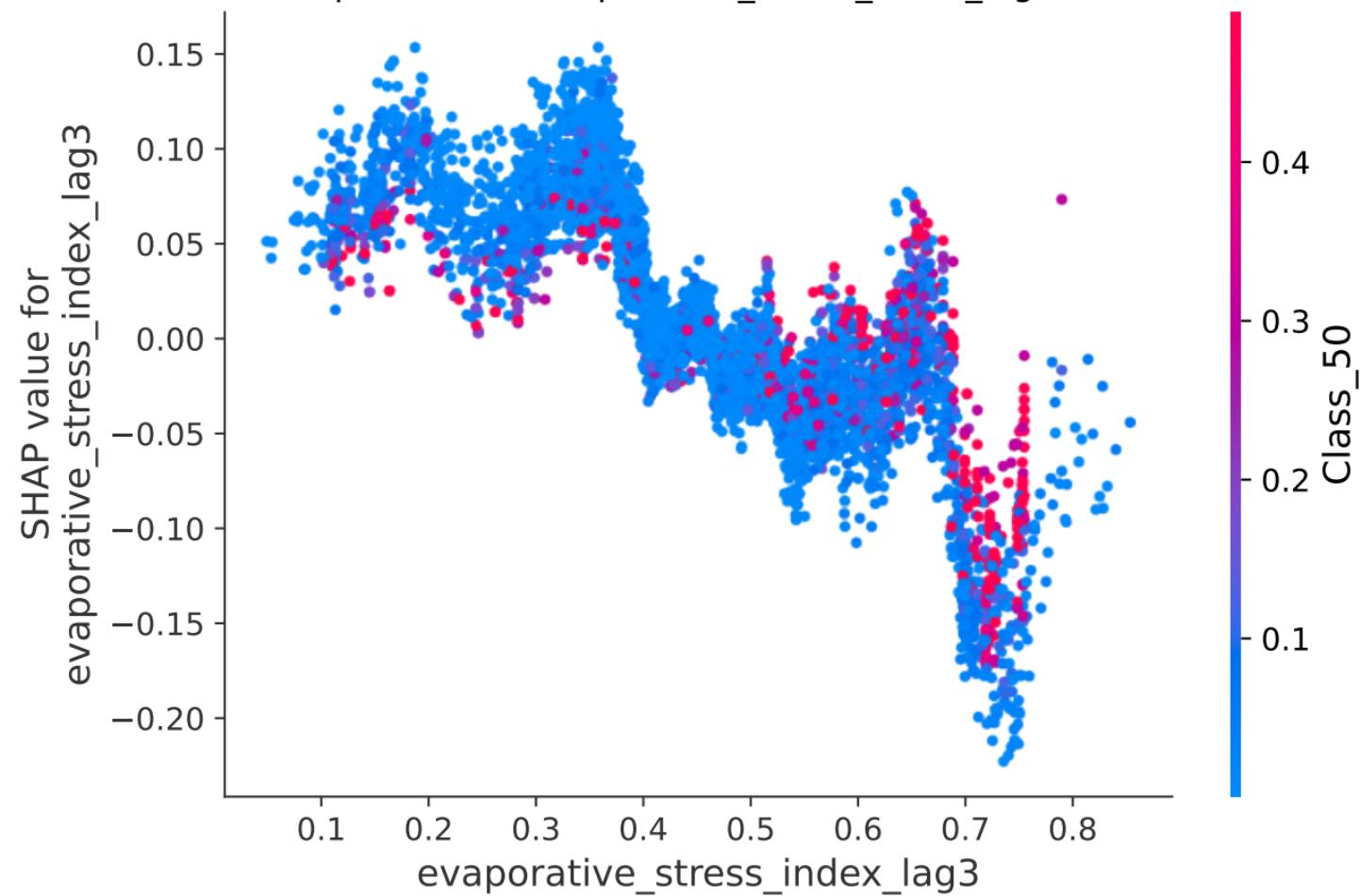
SHAP Dependence - evaporative_stress_index_lag1 - Class 0



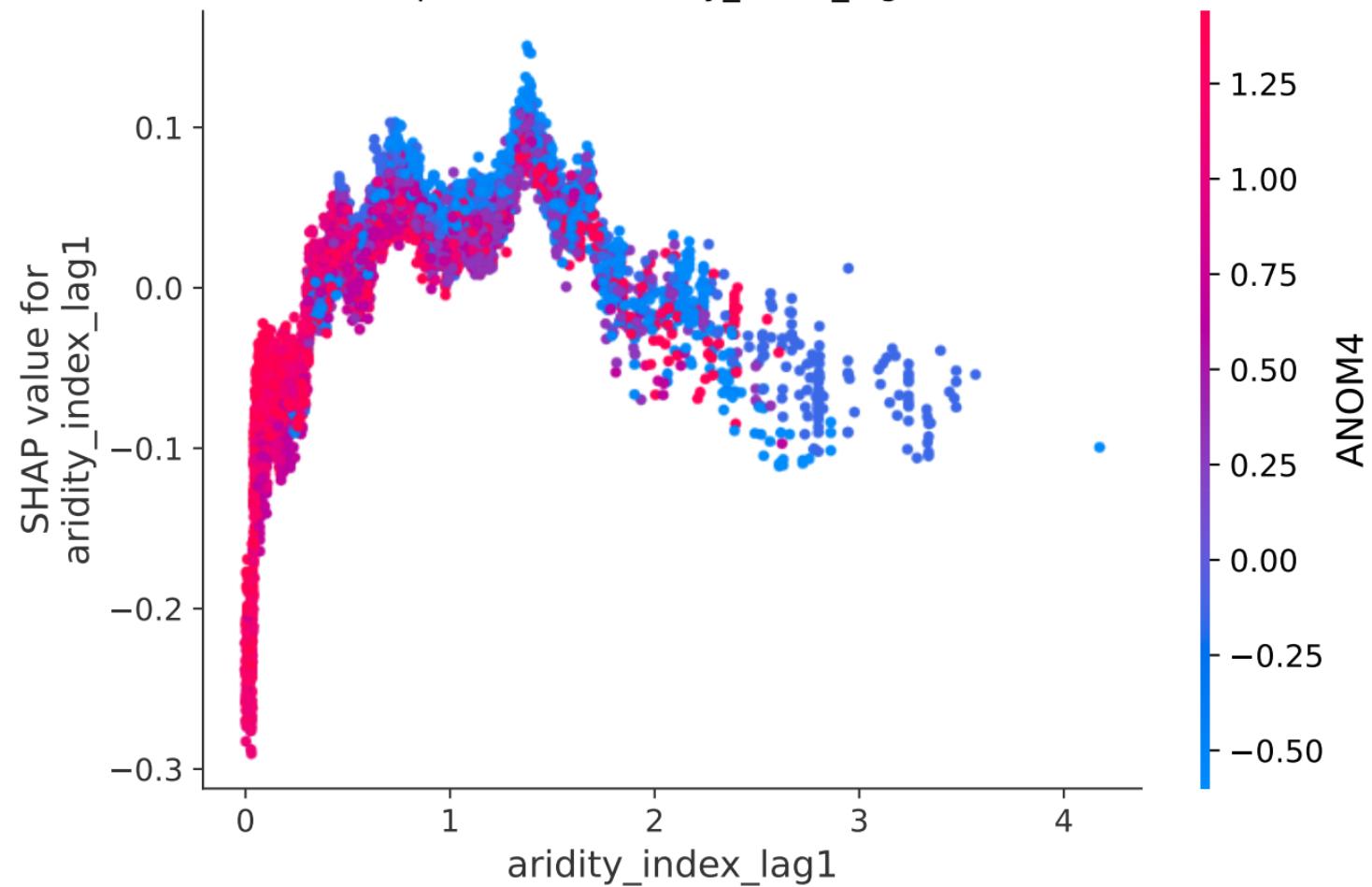
SHAP Dependence - evaporative_stress_index_lag2 - Class 0



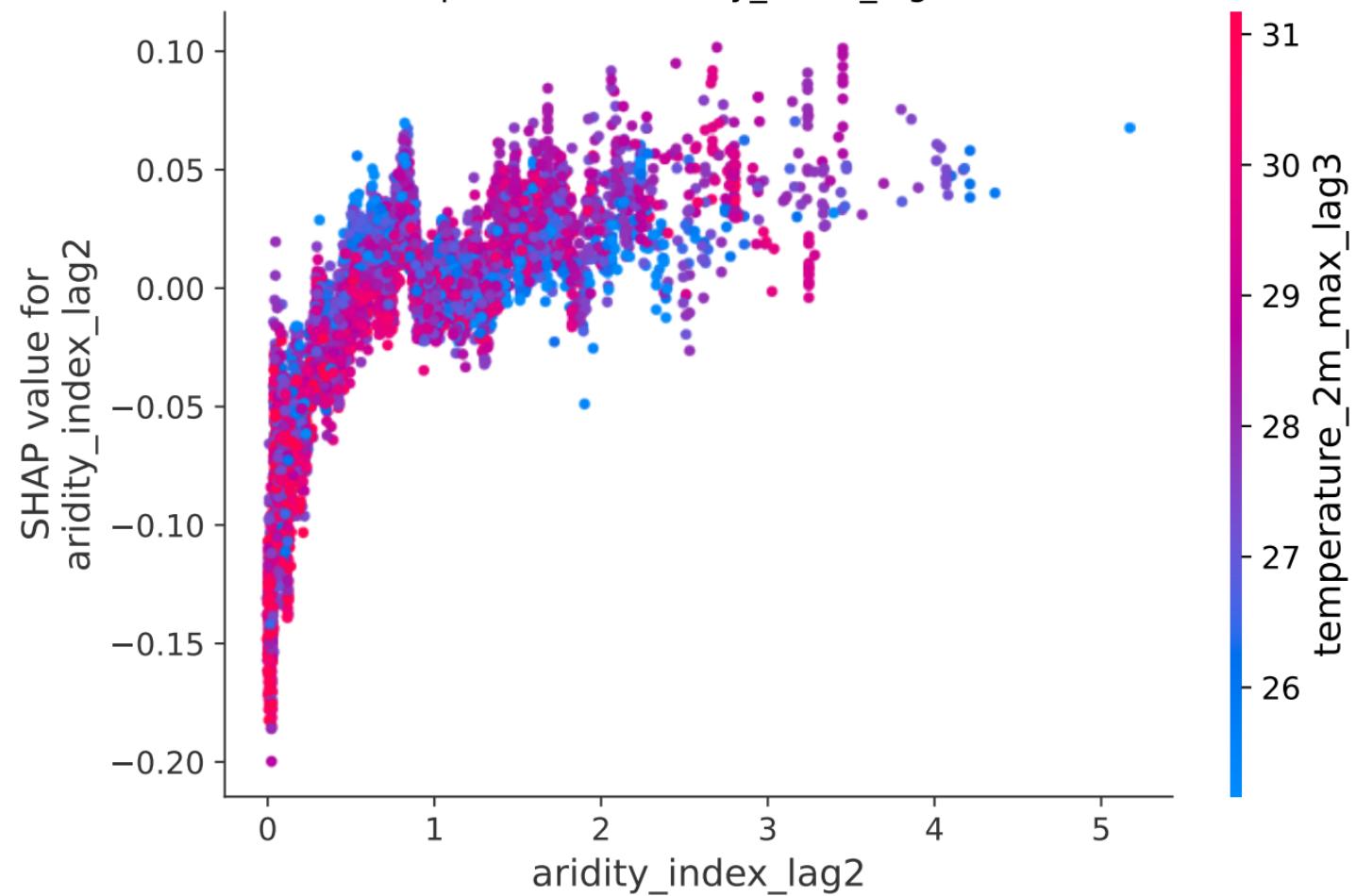
SHAP Dependence - evaporative_stress_index_lag3 - Class 0



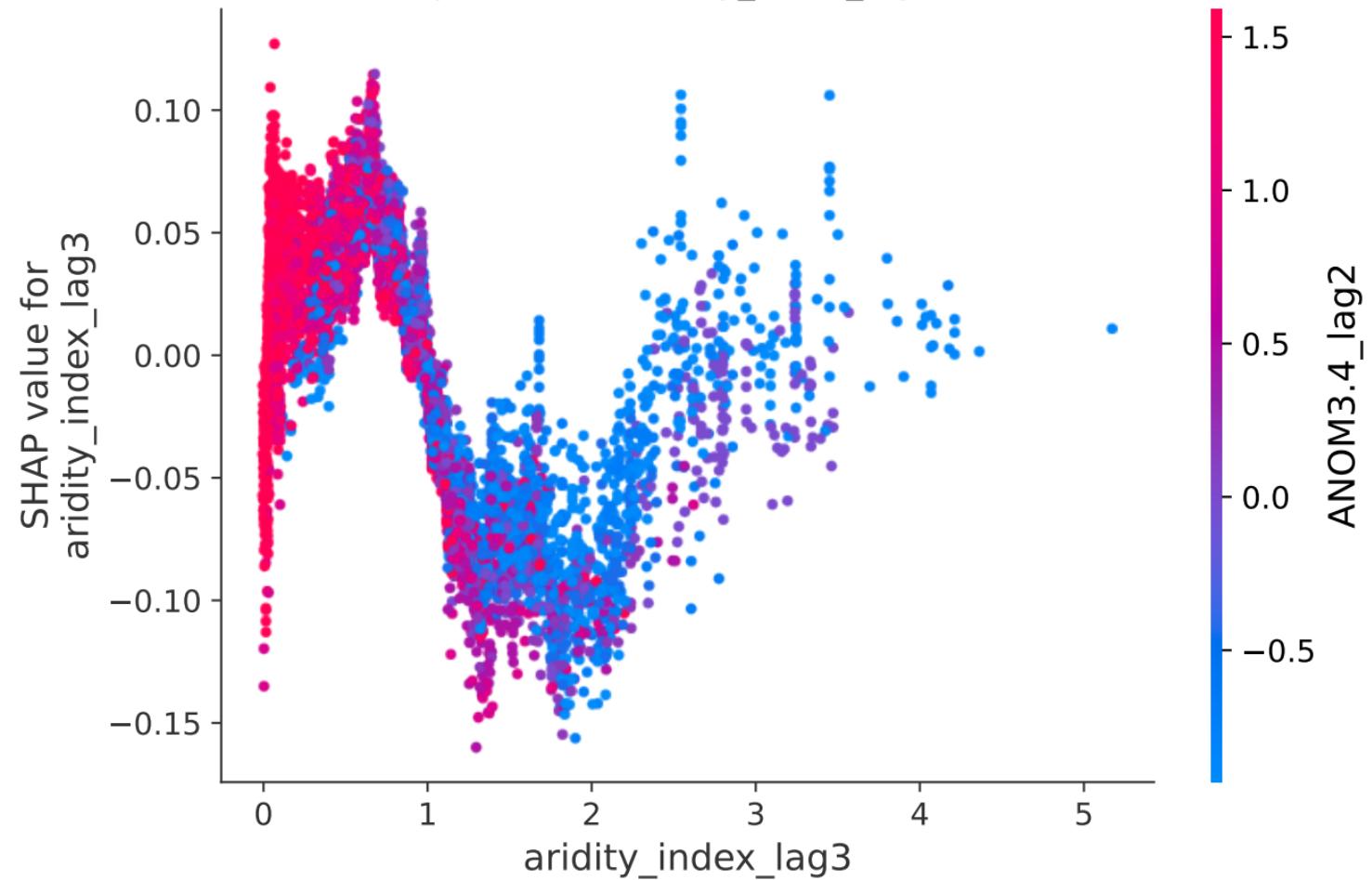
SHAP Dependence - aridity_index_lag1 - Class 0



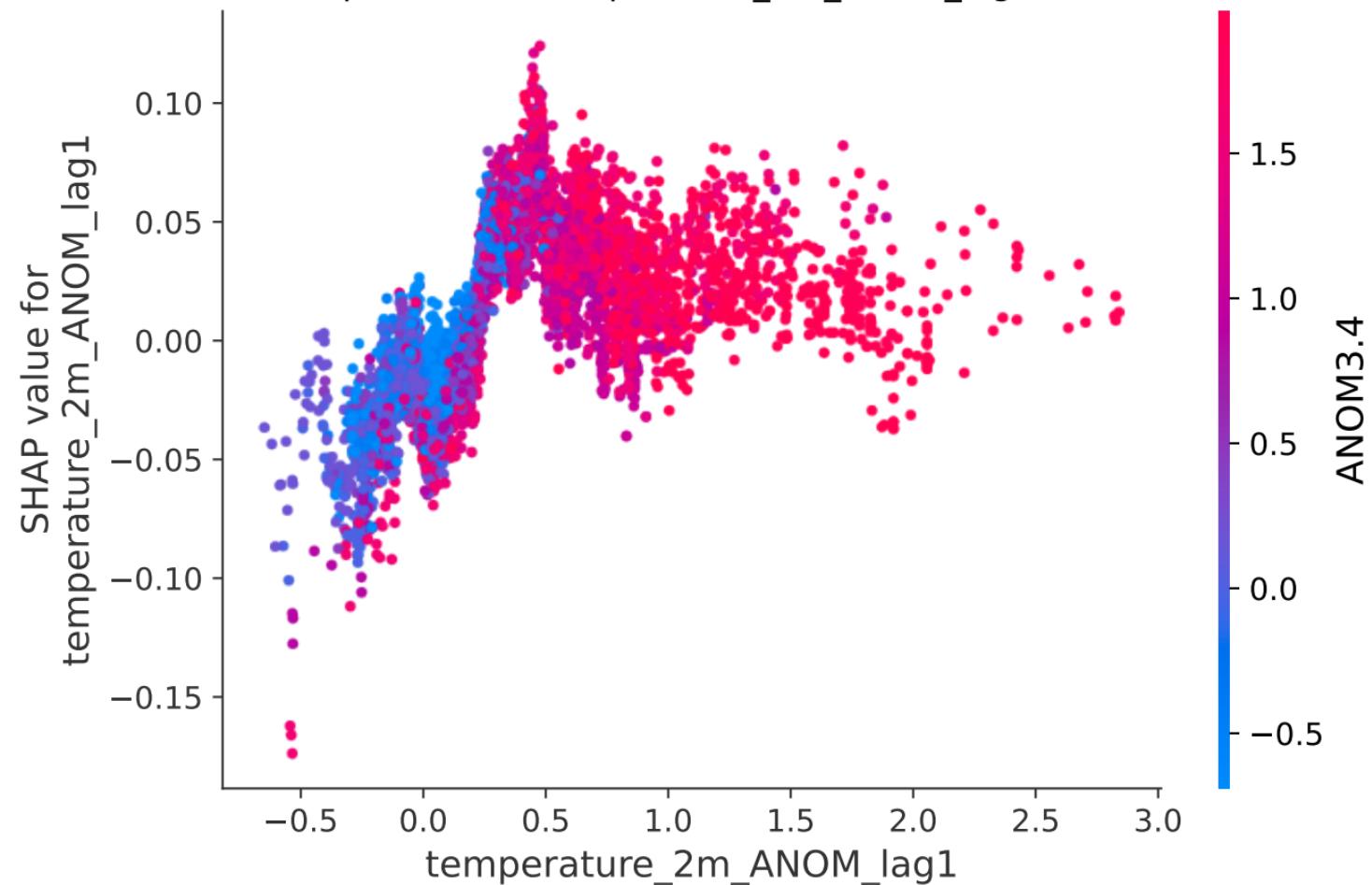
SHAP Dependence - aridity_index_lag2 - Class 0



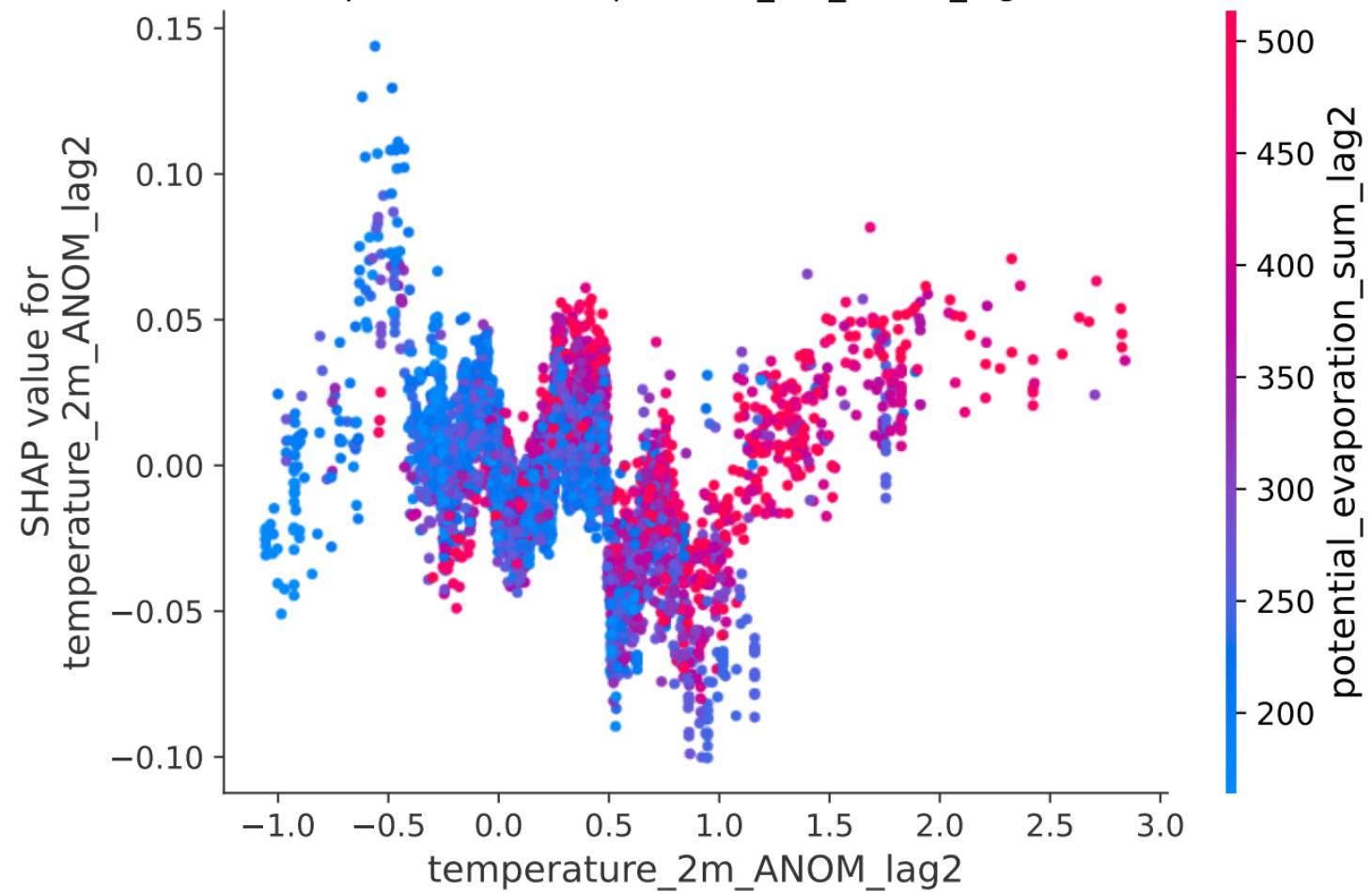
SHAP Dependence - aridity_index_lag3 - Class 0



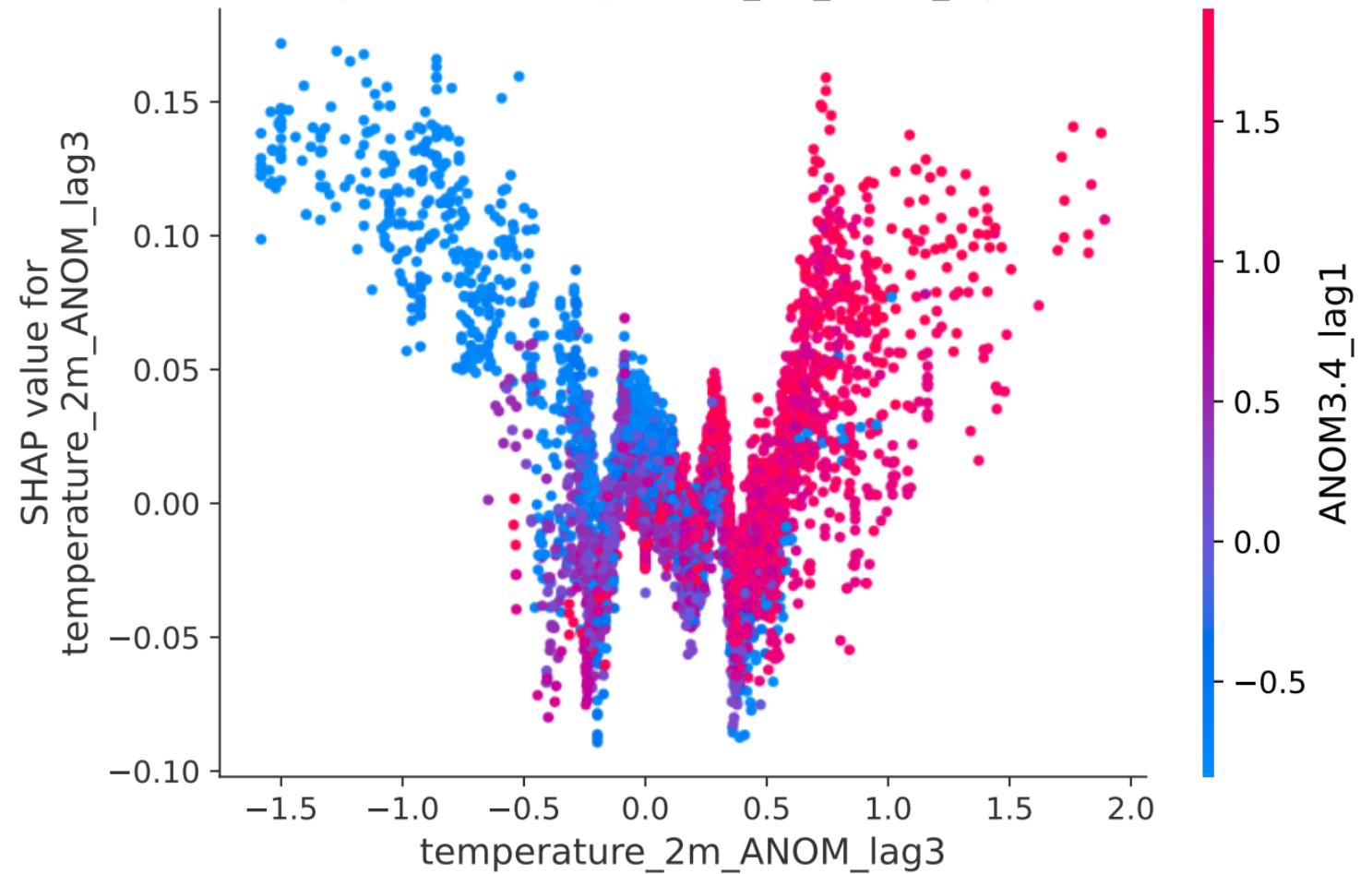
SHAP Dependence - temperature_2m_ANOM_lag1 - Class 0

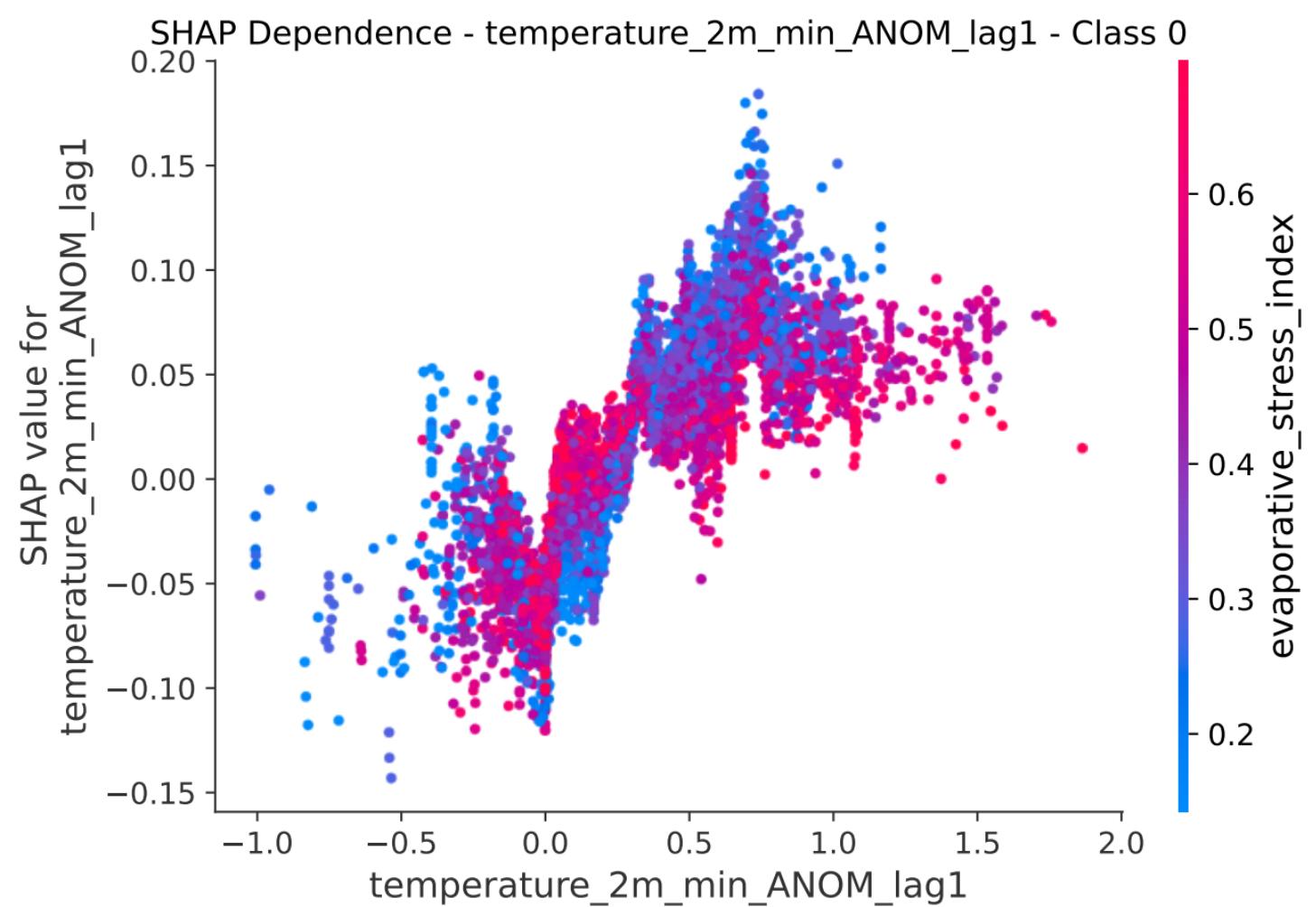


SHAP Dependence - temperature_2m_ANOM_lag2 - Class 0

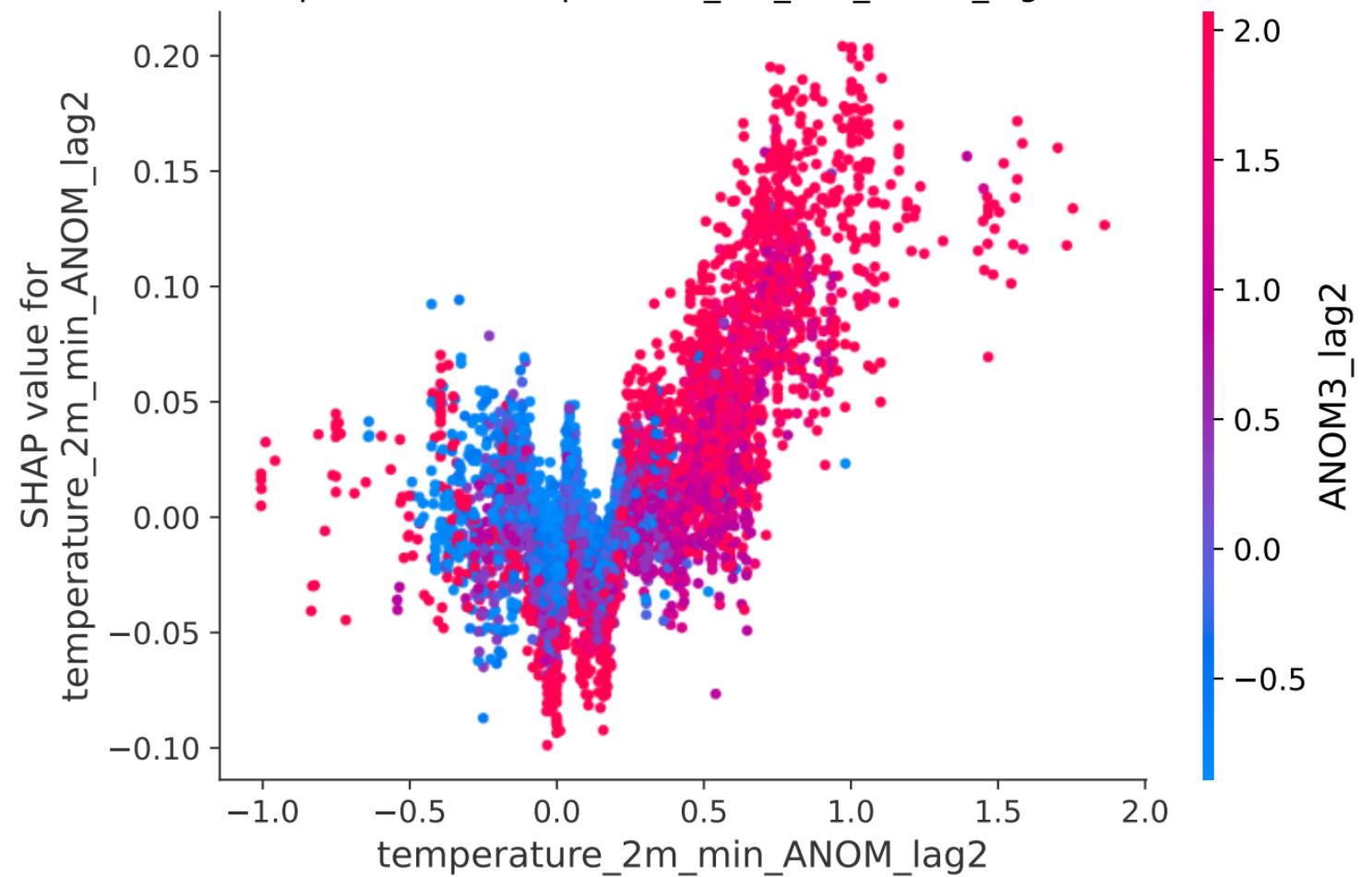


SHAP Dependence - temperature_2m_ANOM_lag3 - Class 0

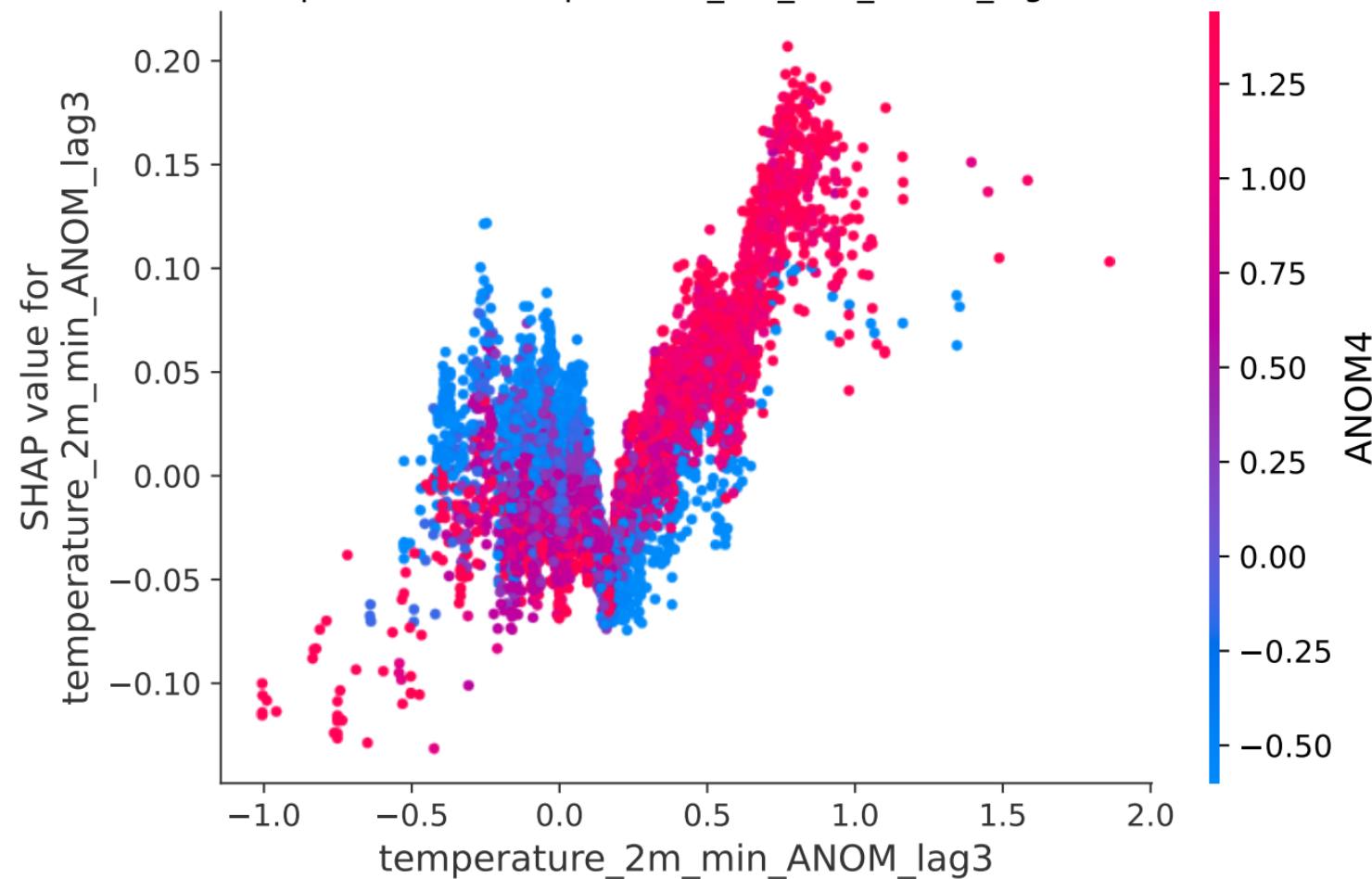




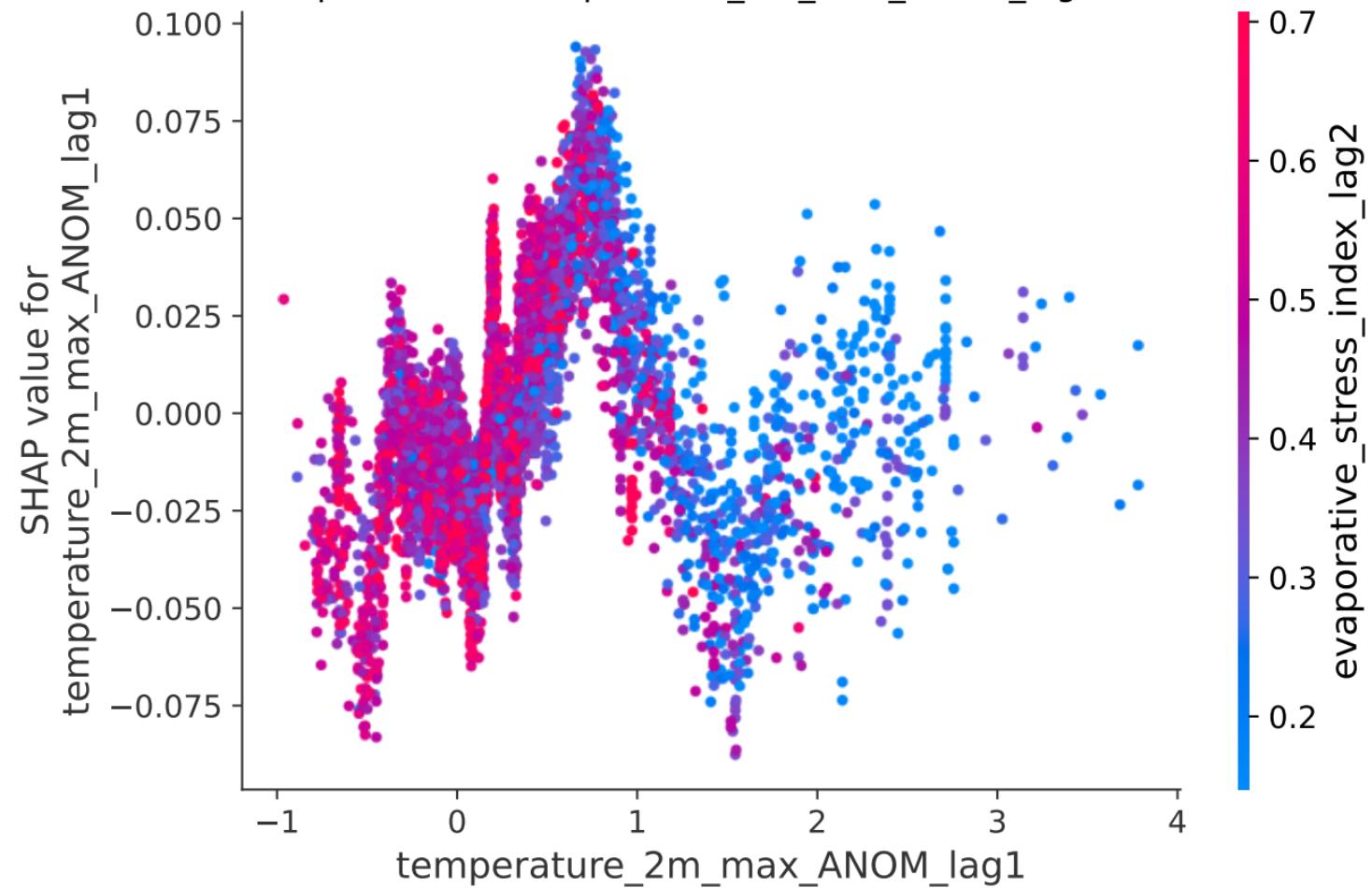
SHAP Dependence - temperature_2m_min_ANOM_lag2 - Class 0

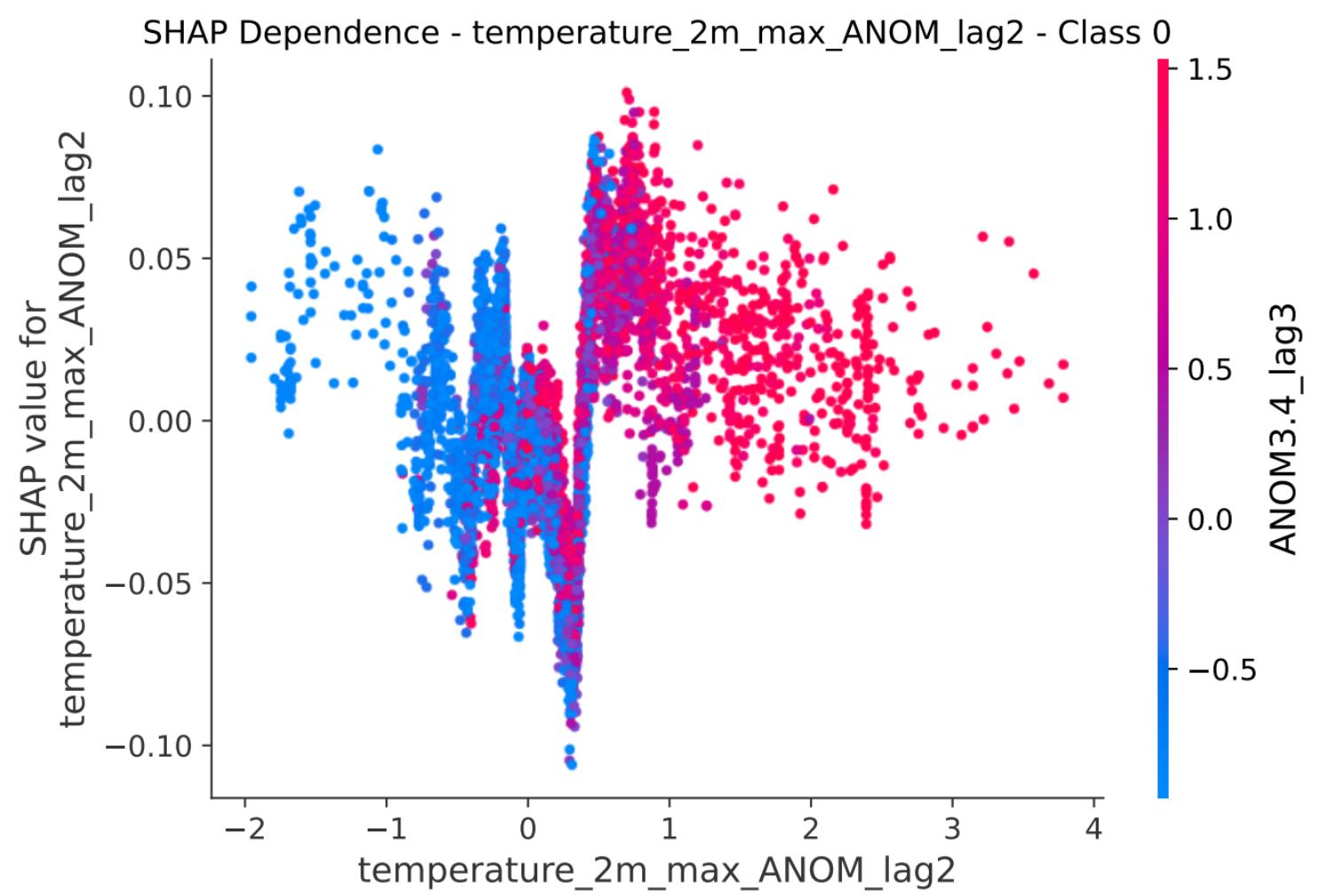


SHAP Dependence - temperature_2m_min_ANOM_lag3 - Class 0

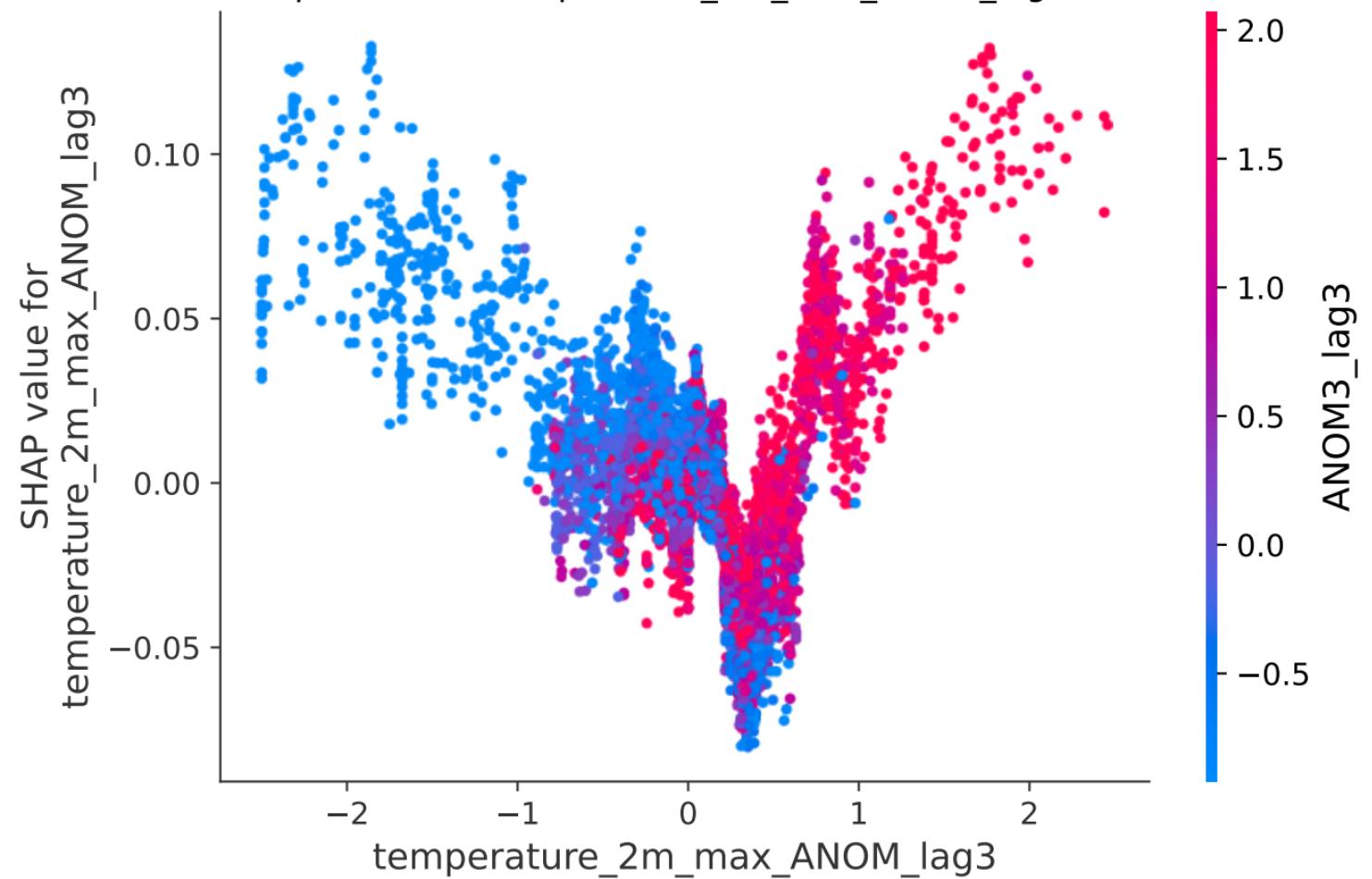


SHAP Dependence - temperature_2m_max_ANOM_lag1 - Class 0

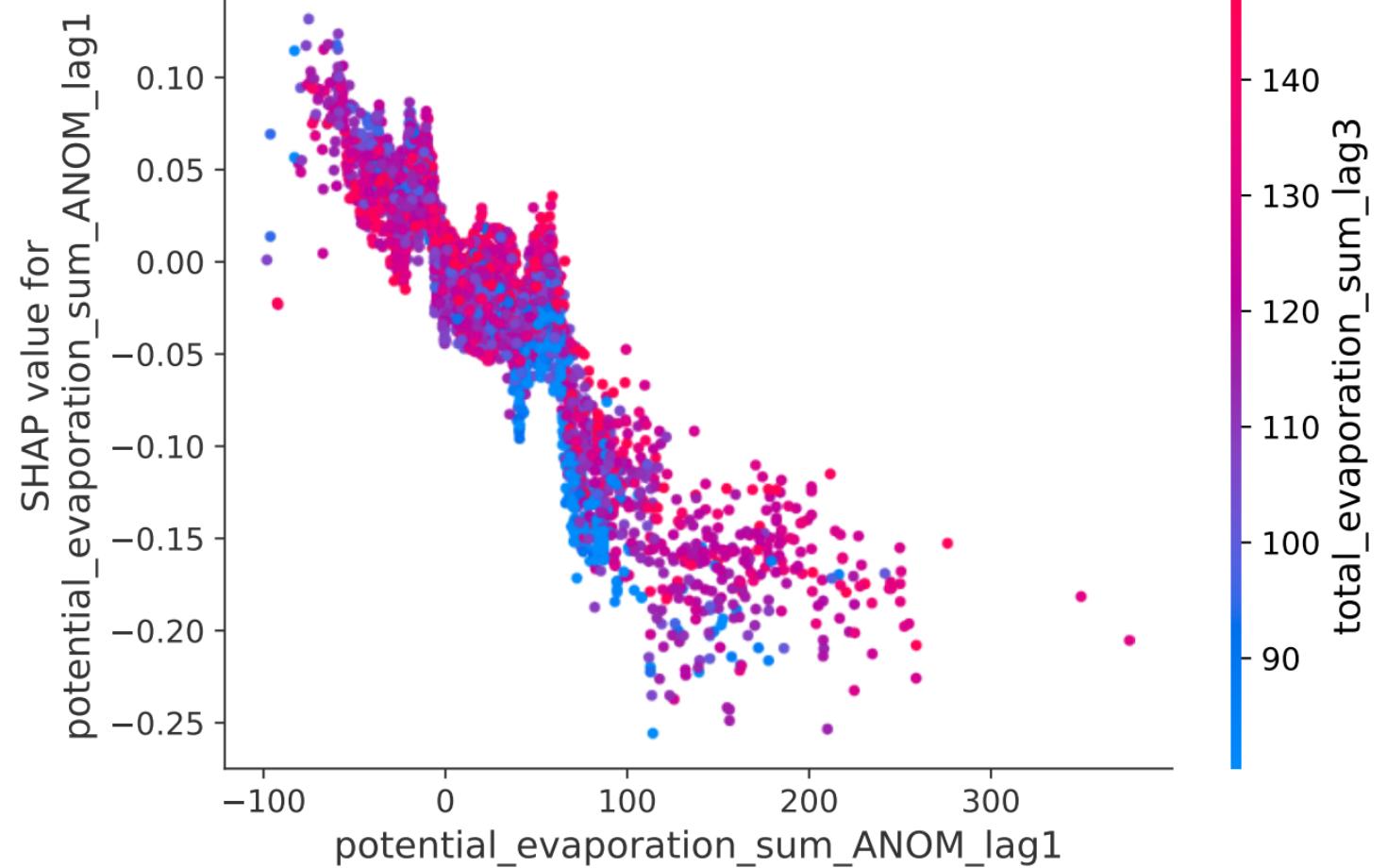




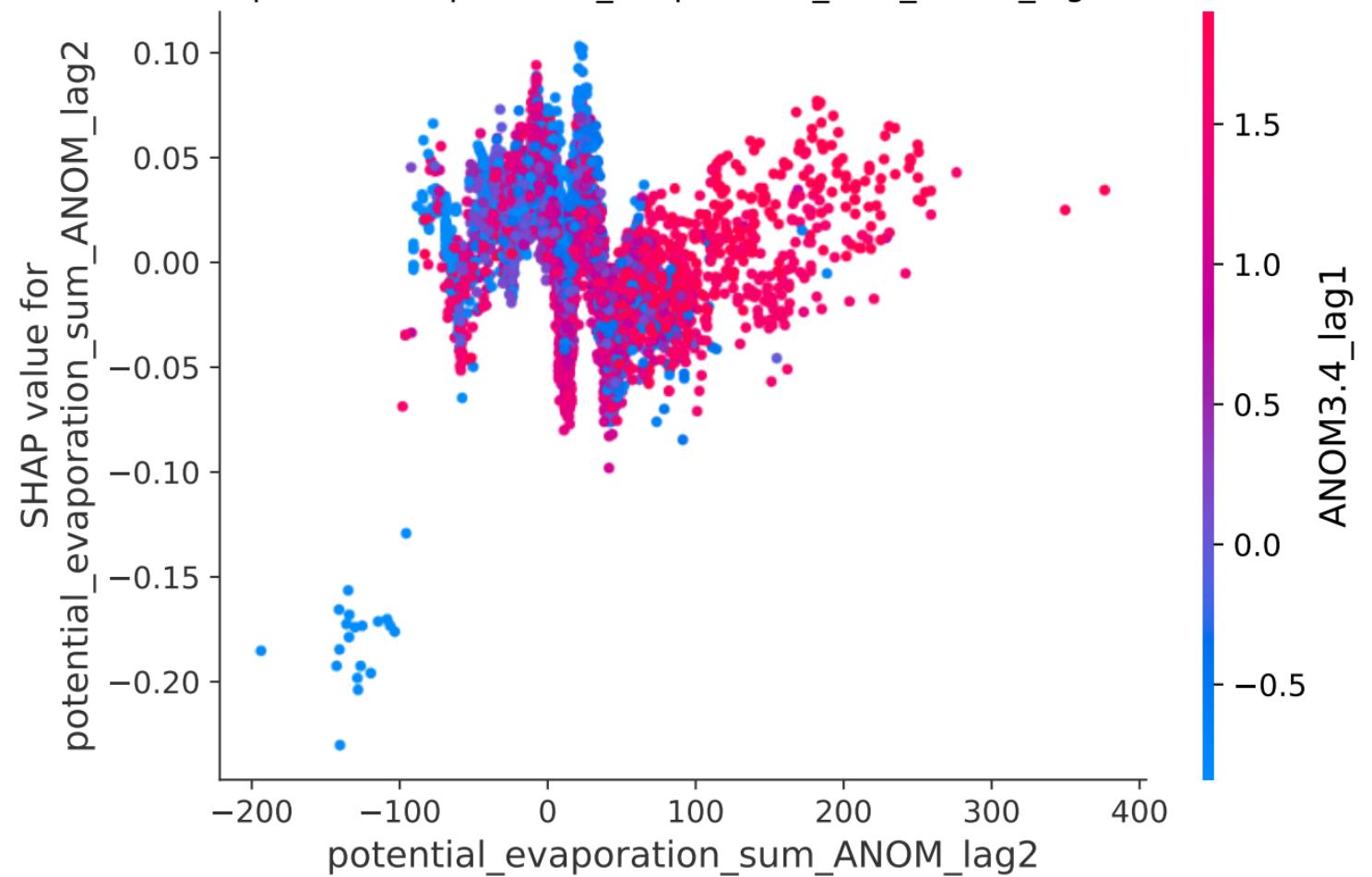
SHAP Dependence - temperature_2m_max_ANOM_lag3 - Class 0



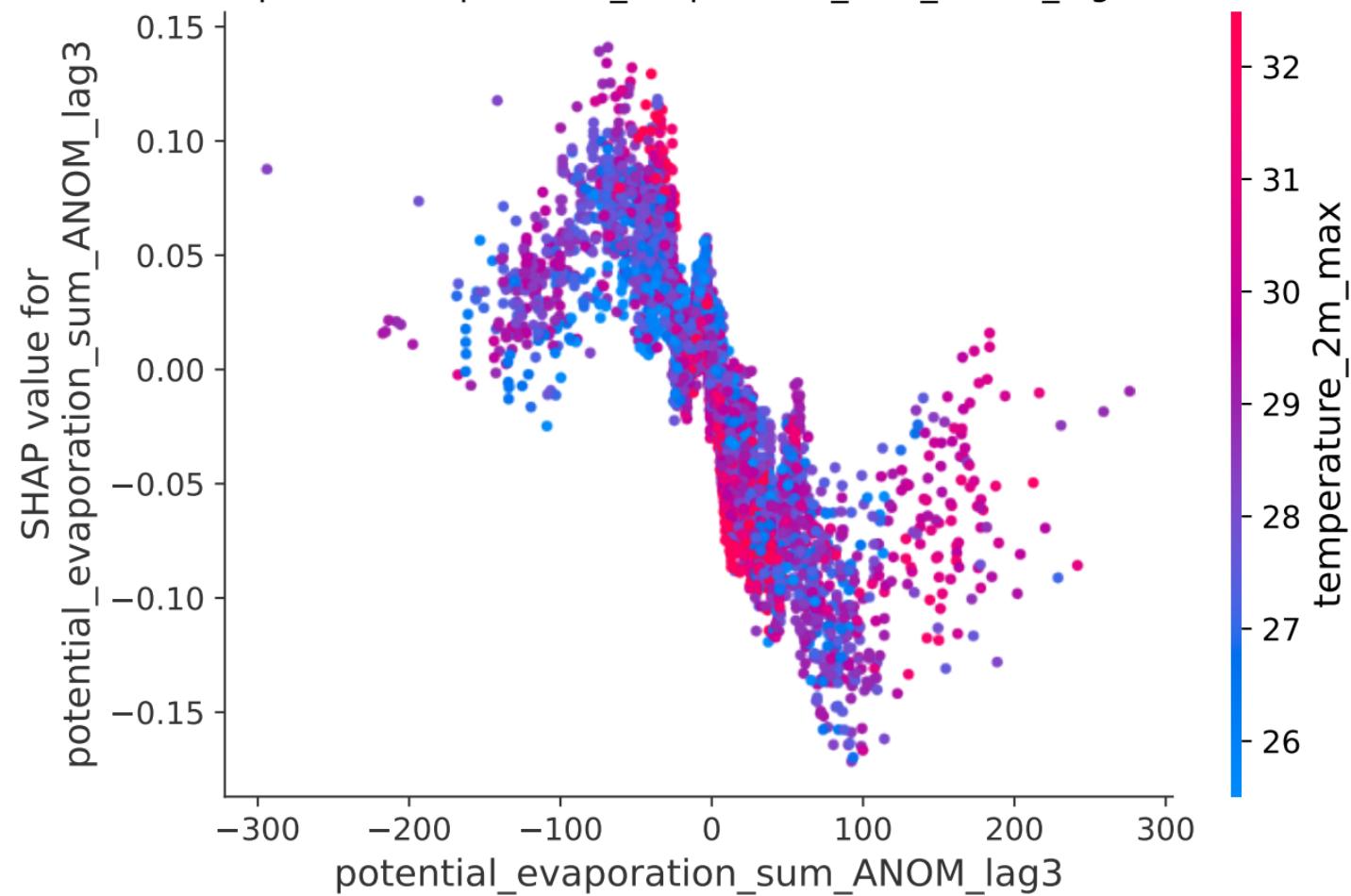
SHAP Dependence - potential_evaporation_sum_ANOM_lag1 - Class 0



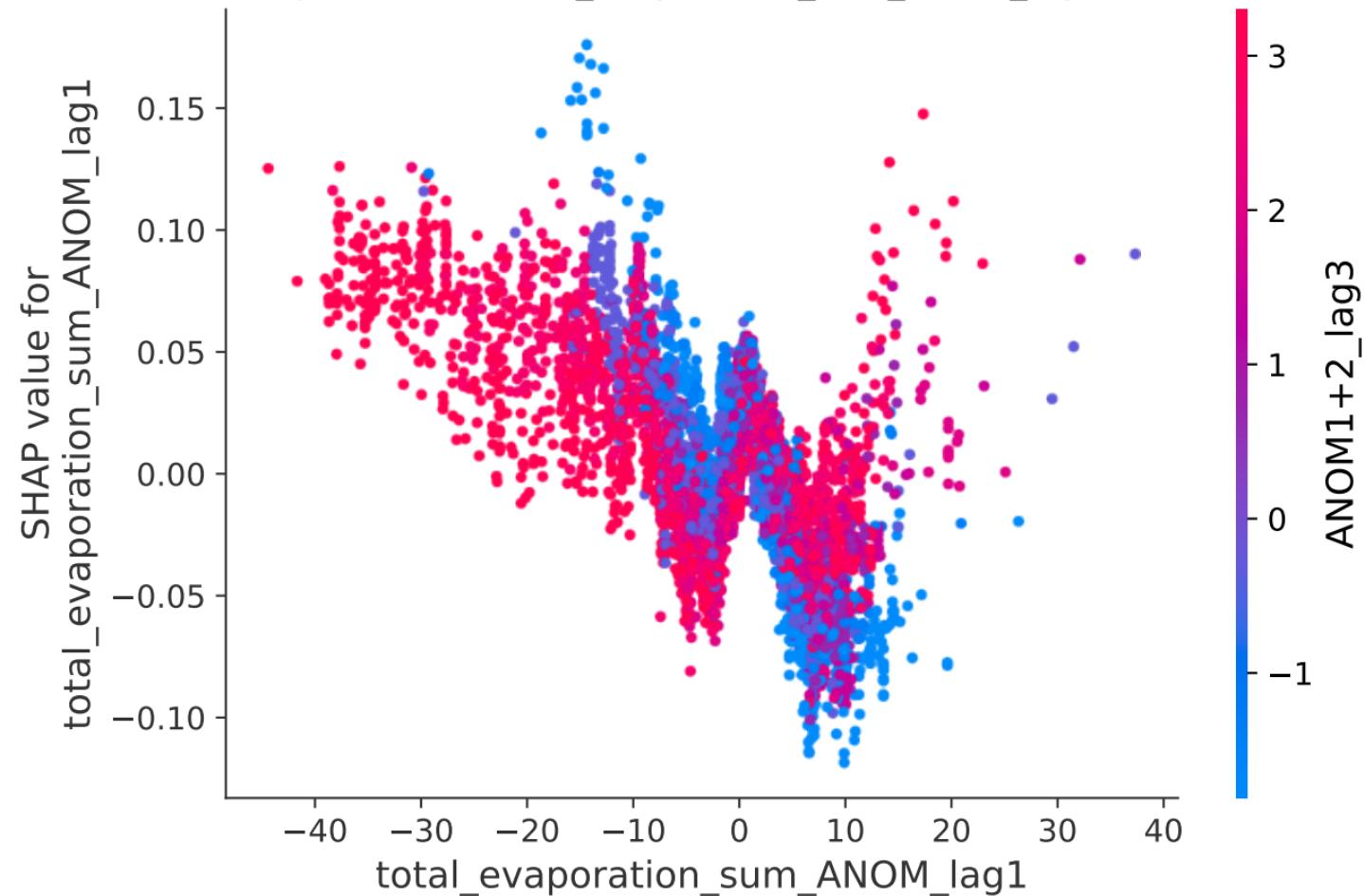
SHAP Dependence - potential_evaporation_sum_ANOM_lag2 - Class 0



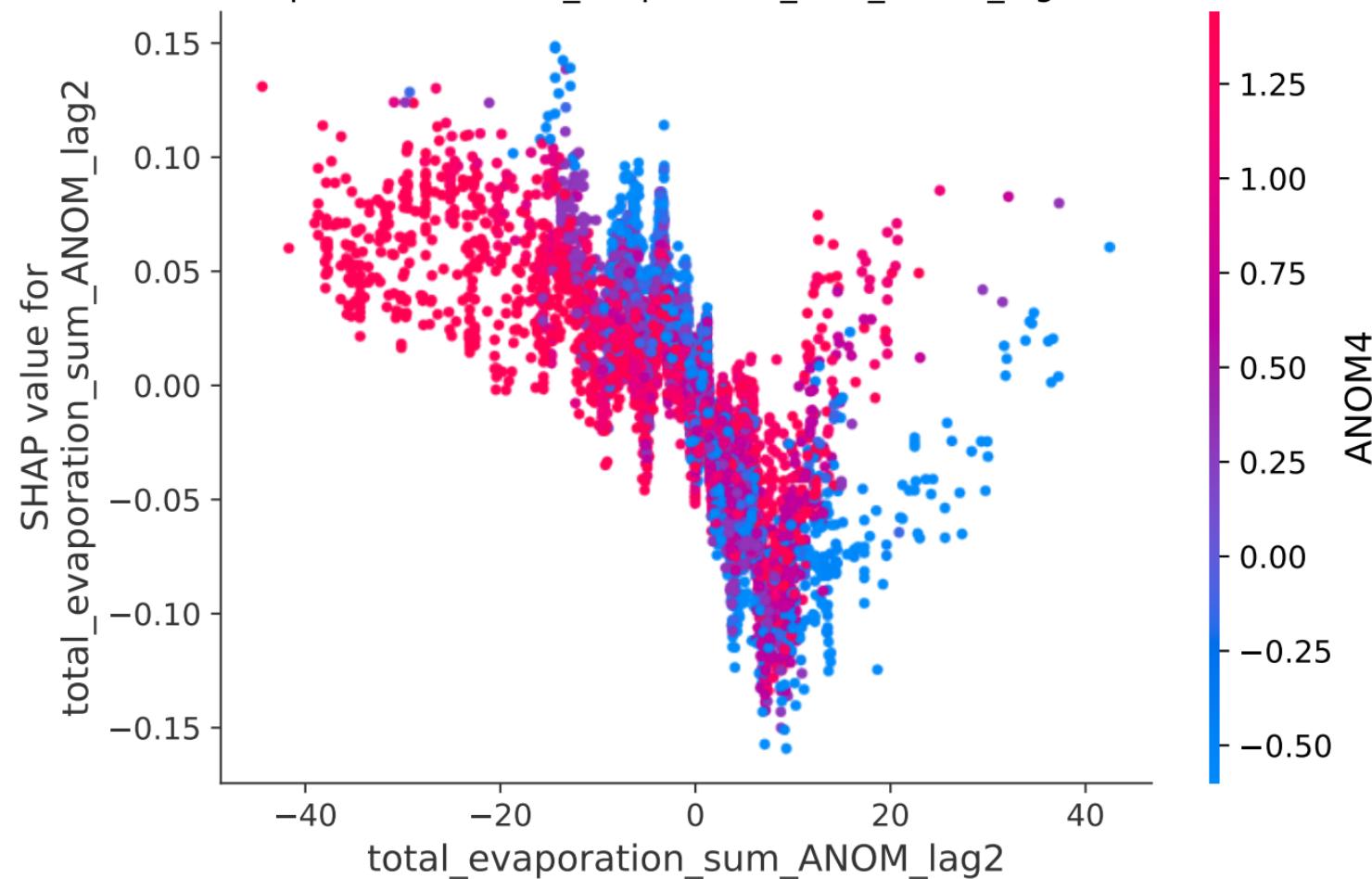
SHAP Dependence - potential_evaporation_sum_ANOM_lag3 - Class 0



SHAP Dependence - total_evaporation_sum_ANOM_lag1 - Class 0

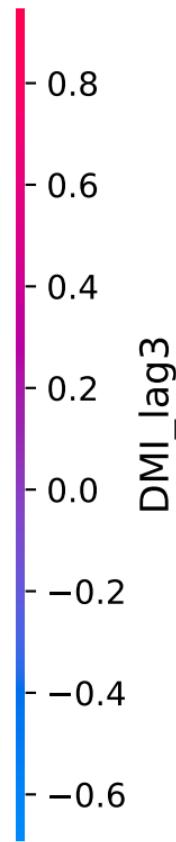
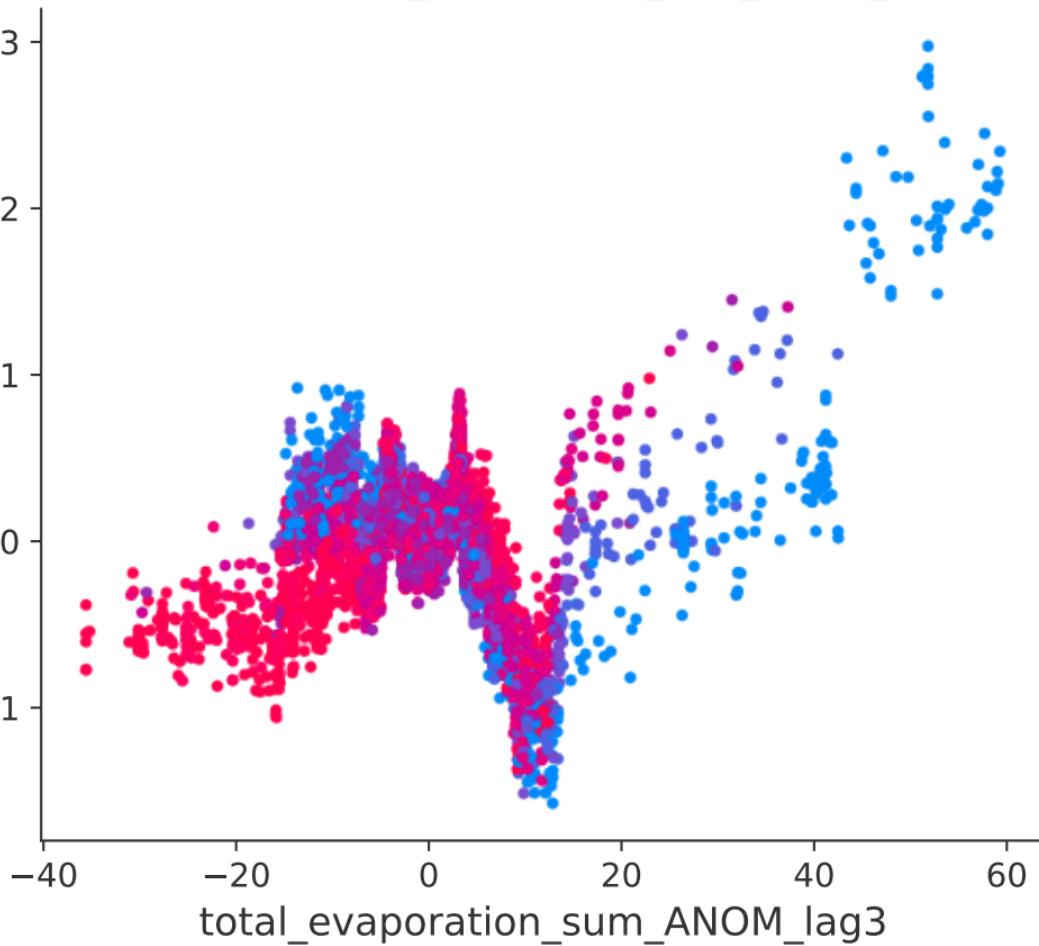


SHAP Dependence - total_evaporation_sum_ANOM_lag2 - Class 0



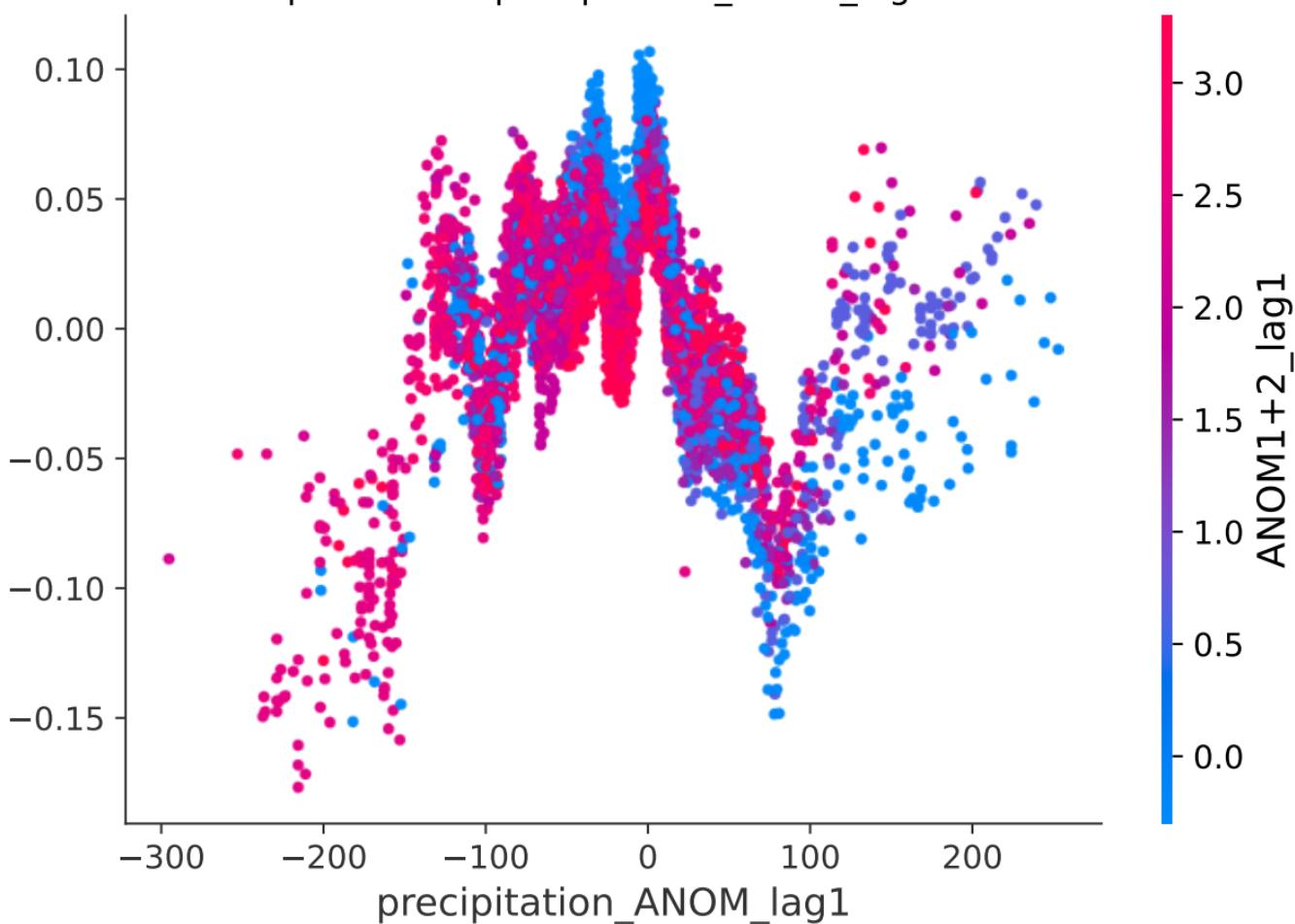
SHAP Dependence - total_evaporation_sum_ANOM_lag3 - Class 0

SHAP value for
total_evaporation_sum_ANOM_lag3



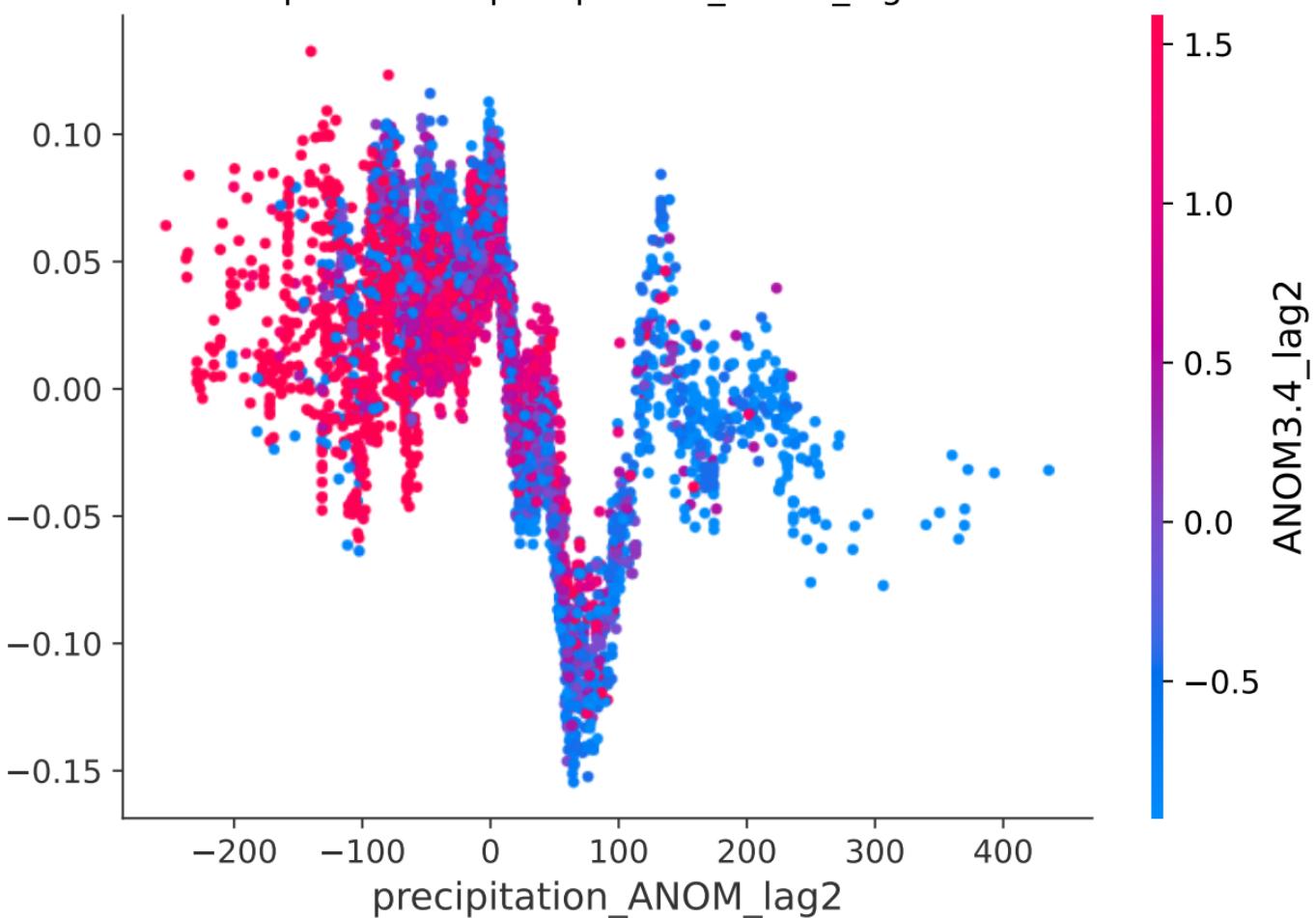
SHAP Dependence - precipitation_ANOM_lag1 - Class 0

SHAP value for
precipitation_ANOM_lag1

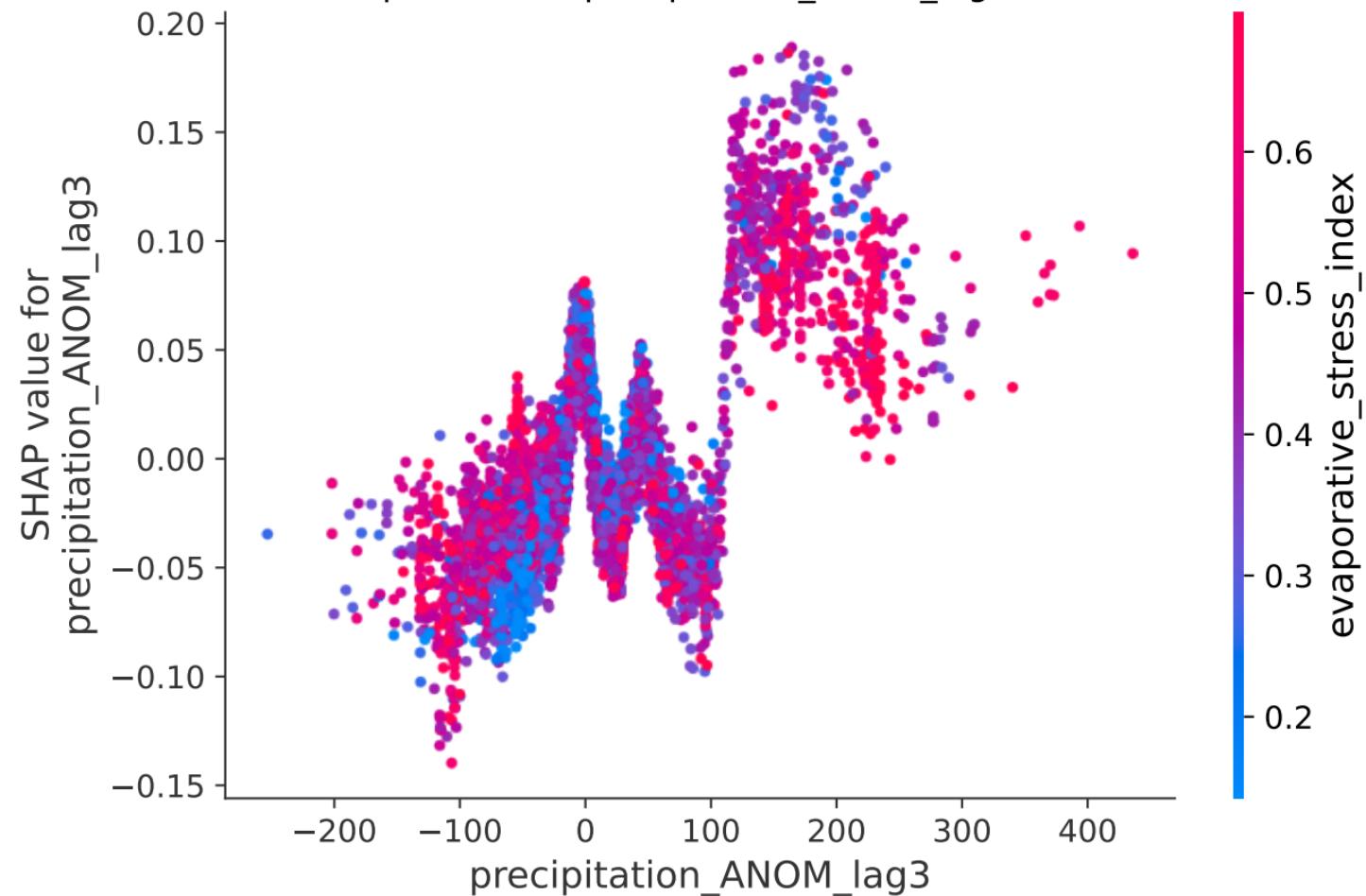


SHAP Dependence - precipitation_ANOM_lag2 - Class 0

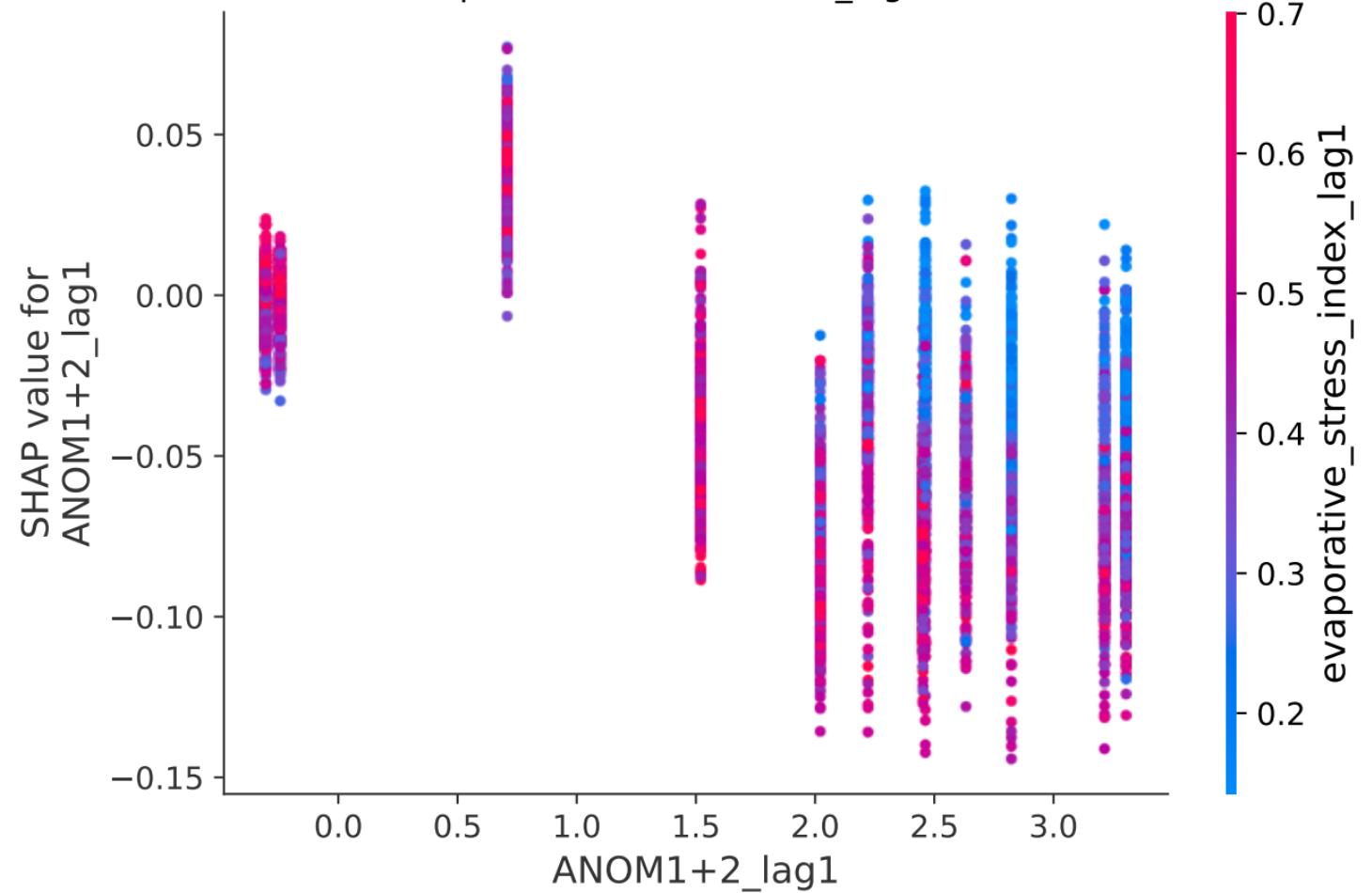
SHAP value for
precipitation_ANOM_lag2



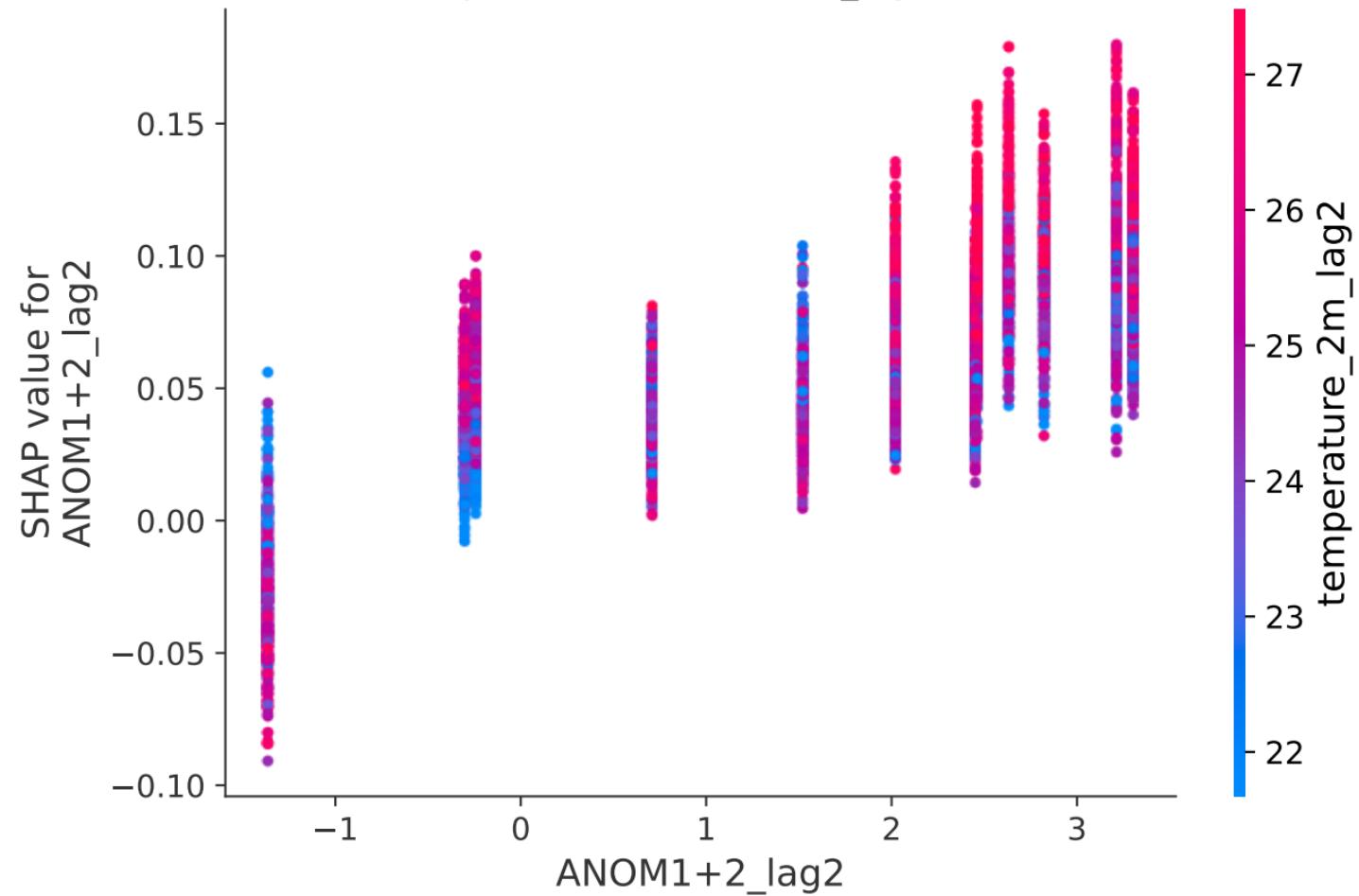
SHAP Dependence - precipitation_ANOM_lag3 - Class 0



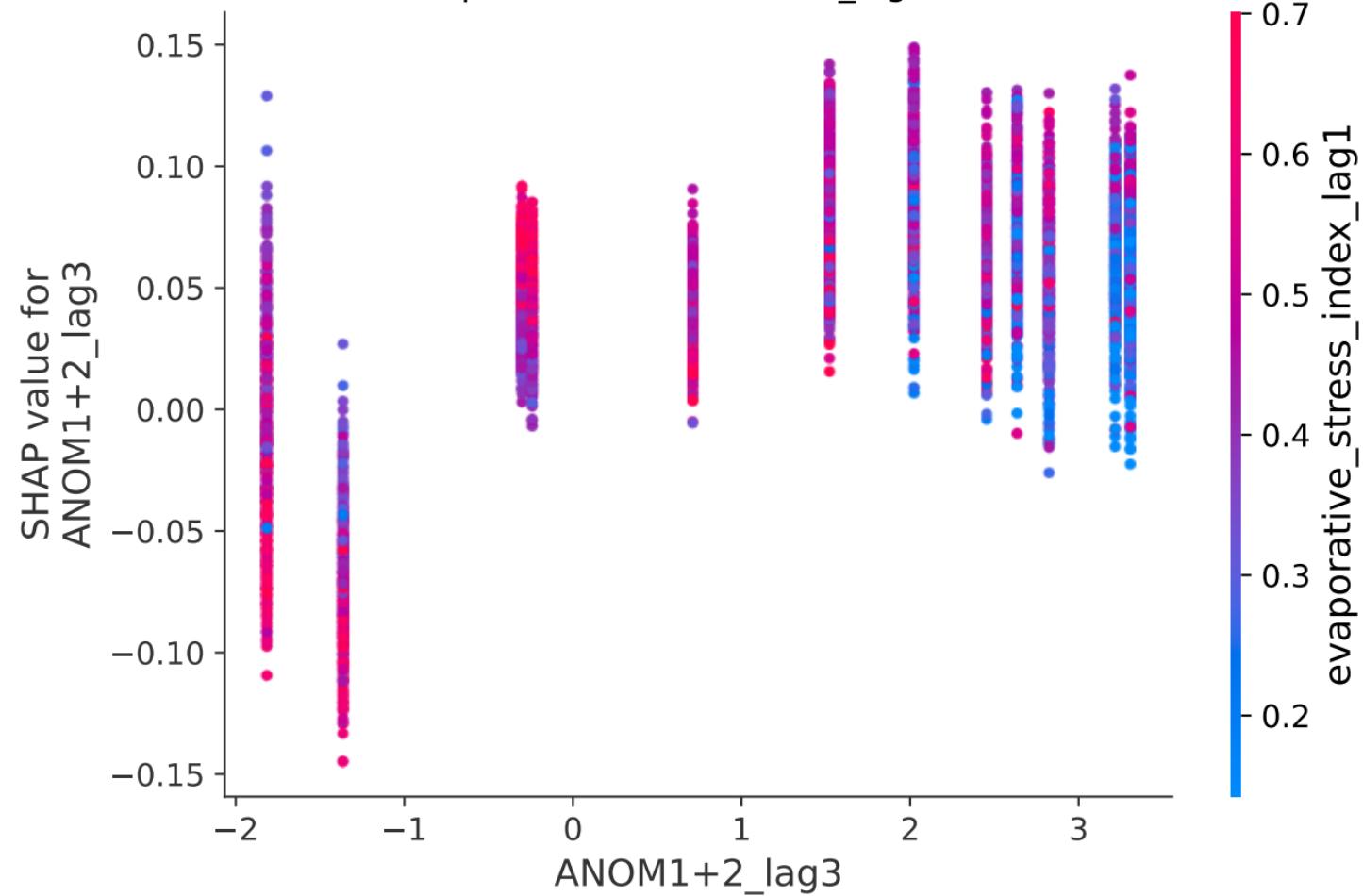
SHAP Dependence - ANOM1+2_lag1 - Class 0



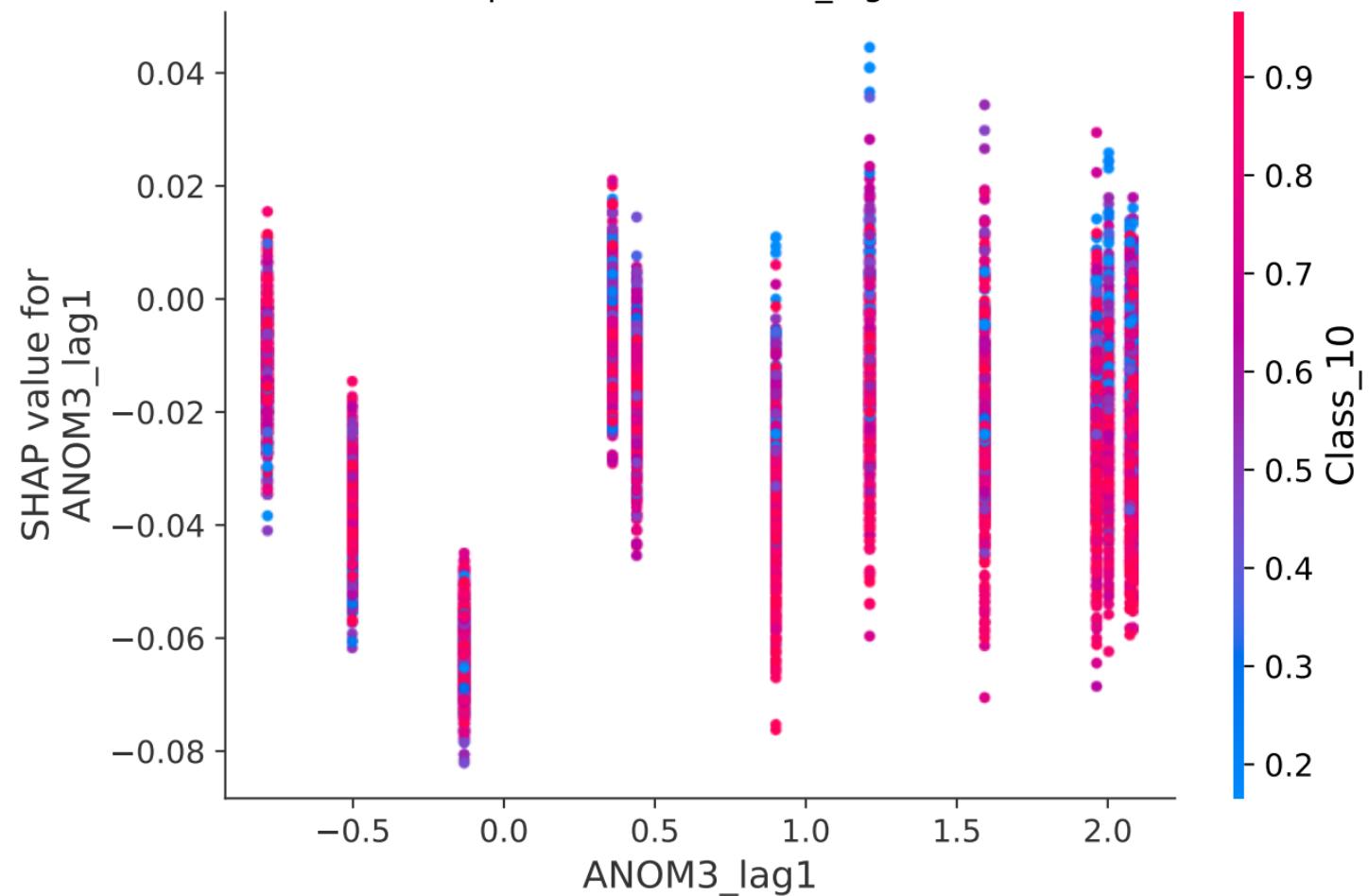
SHAP Dependence - ANOM1+2_lag2 - Class 0



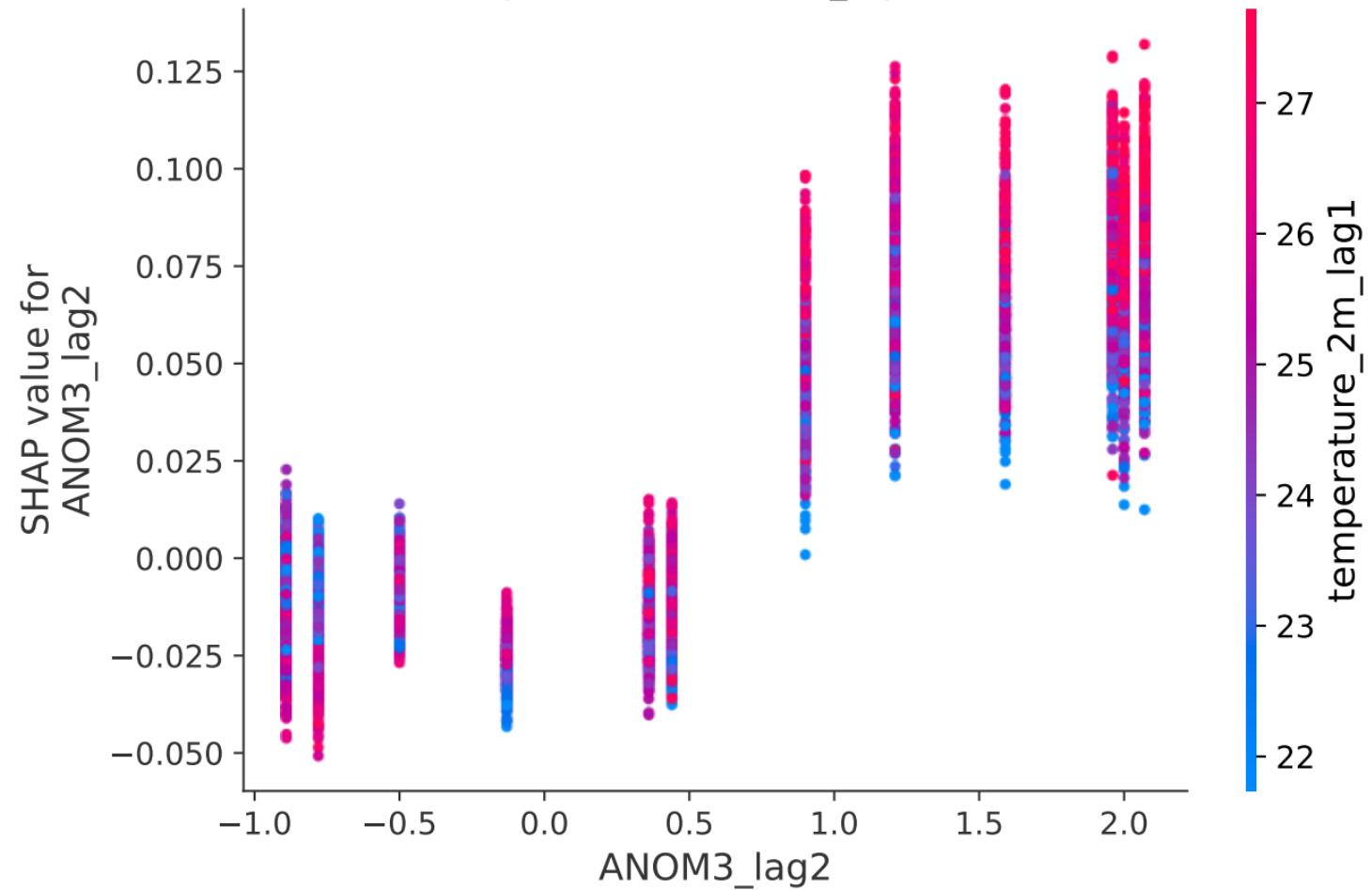
SHAP Dependence - ANOM1+2_lag3 - Class 0



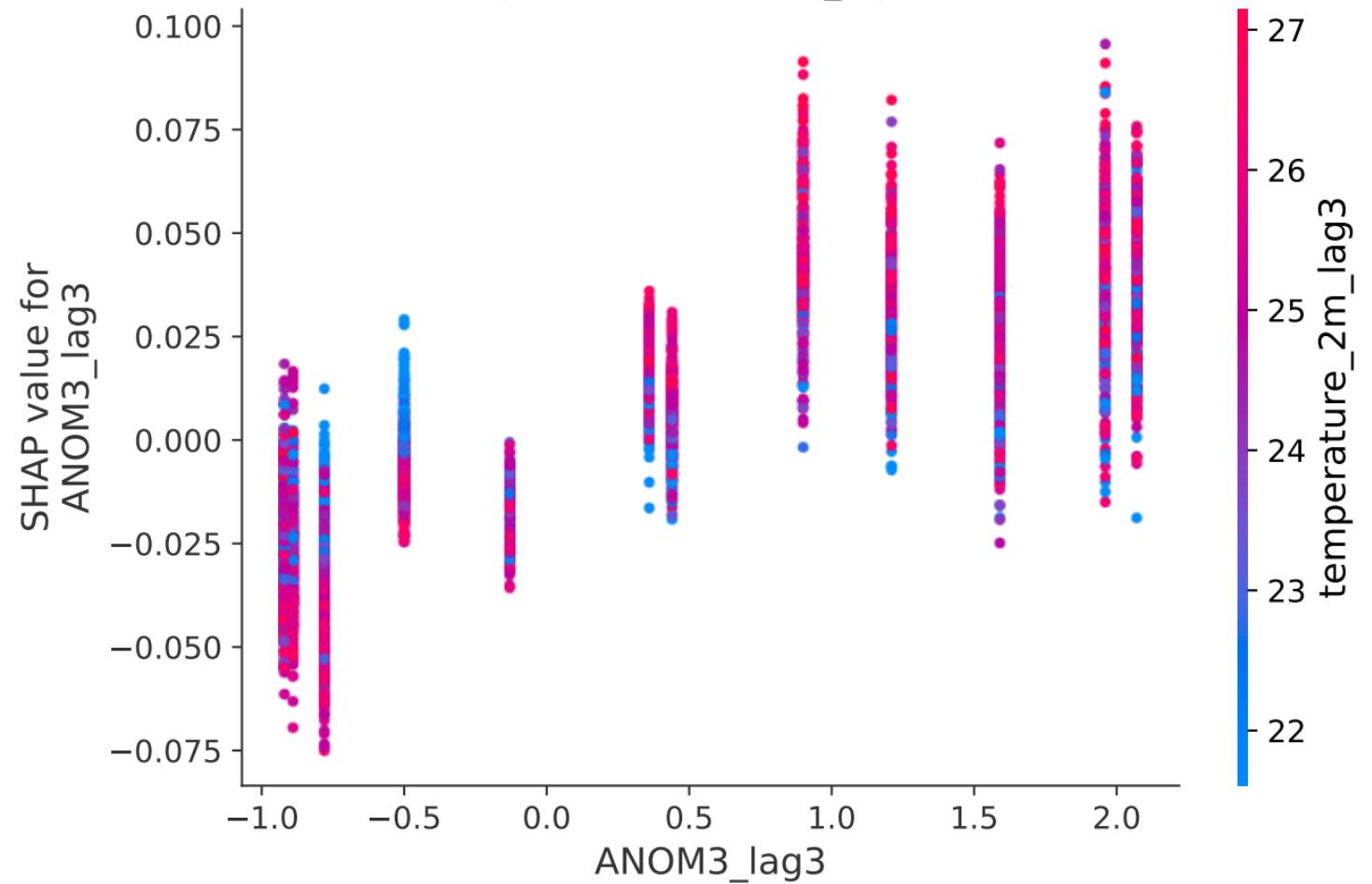
SHAP Dependence - ANOM3_lag1 - Class 0



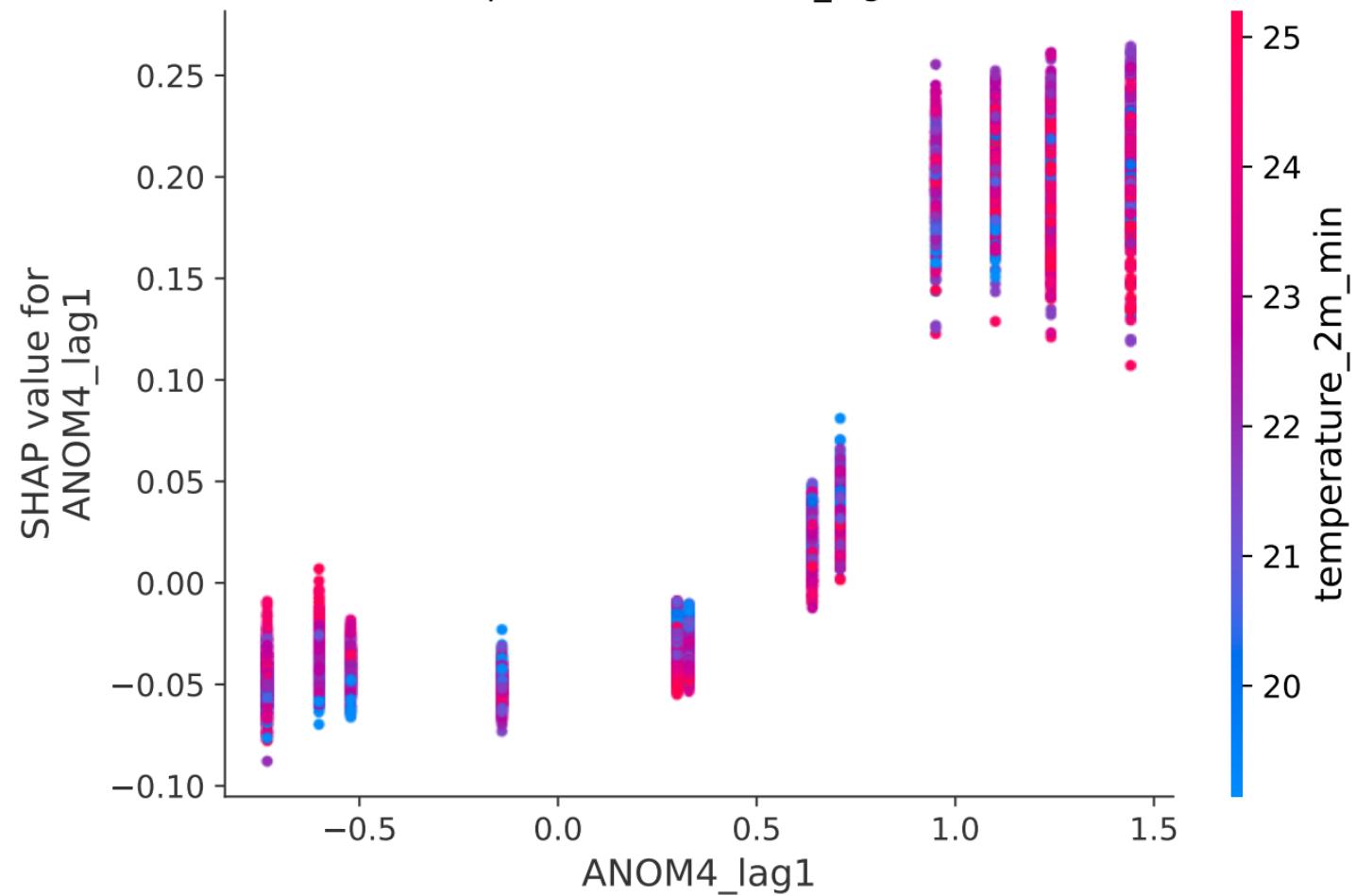
SHAP Dependence - ANOM3_lag2 - Class 0



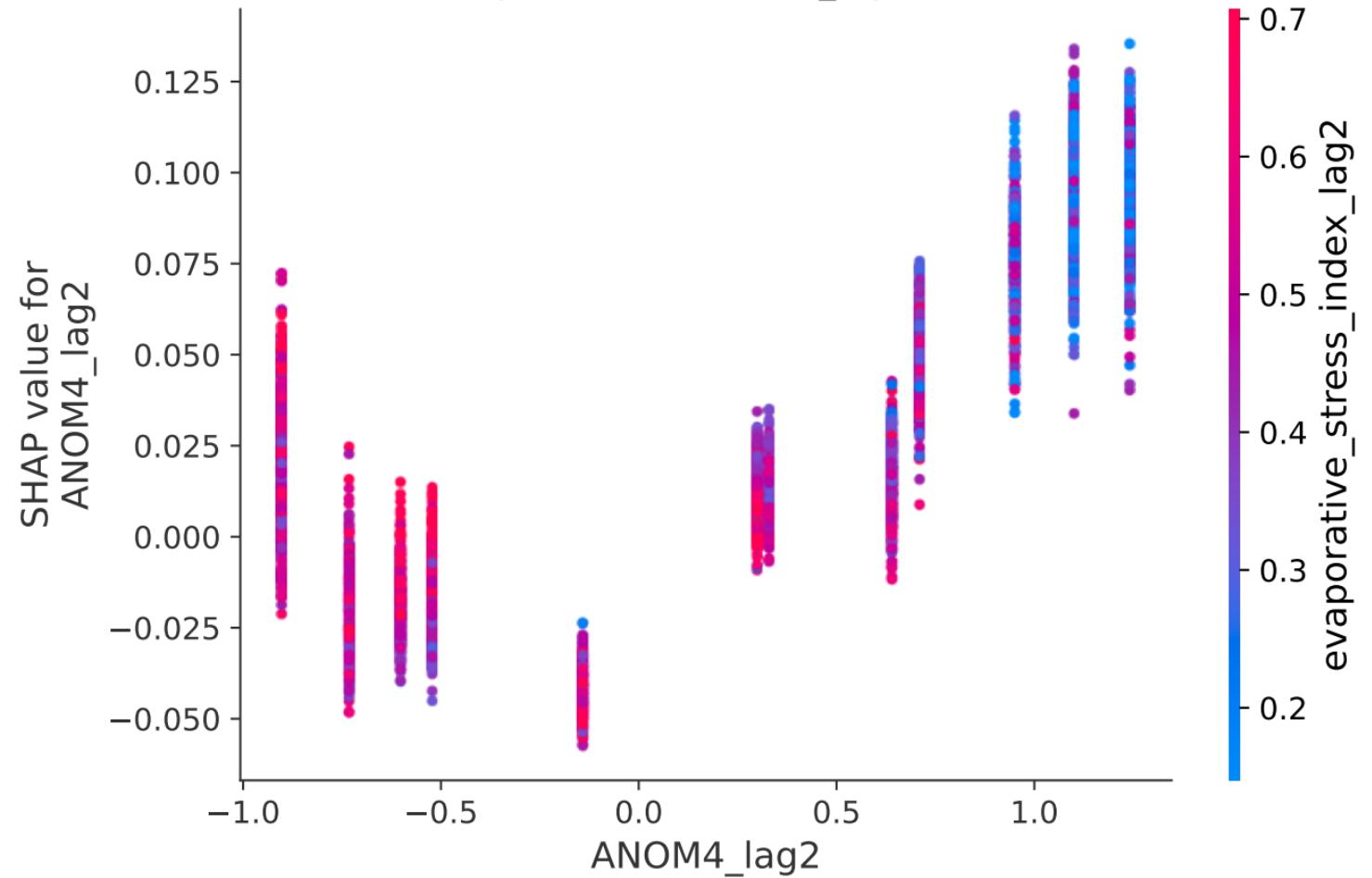
SHAP Dependence - ANOM3_lag3 - Class 0



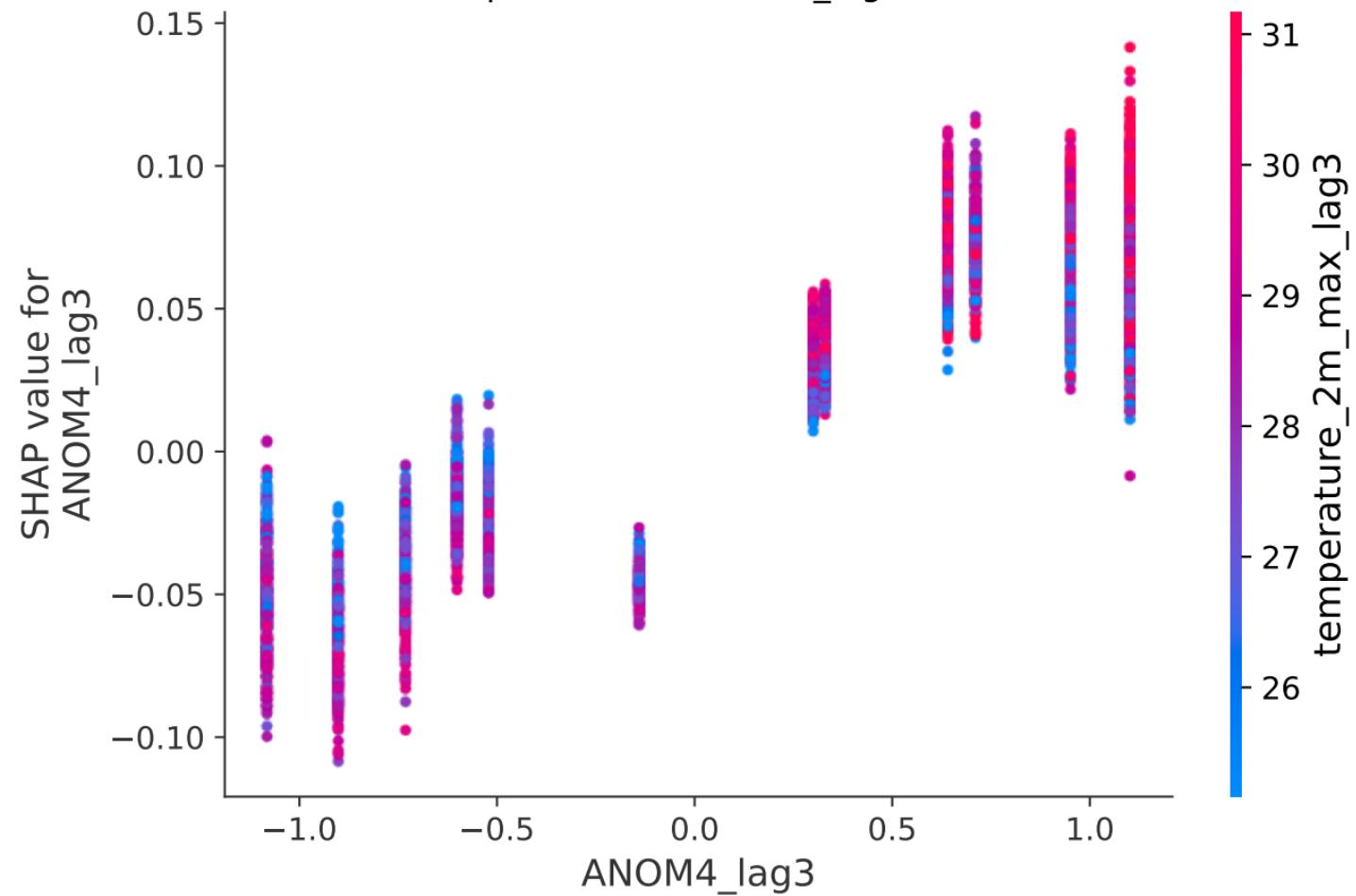
SHAP Dependence - ANOM4_lag1 - Class 0



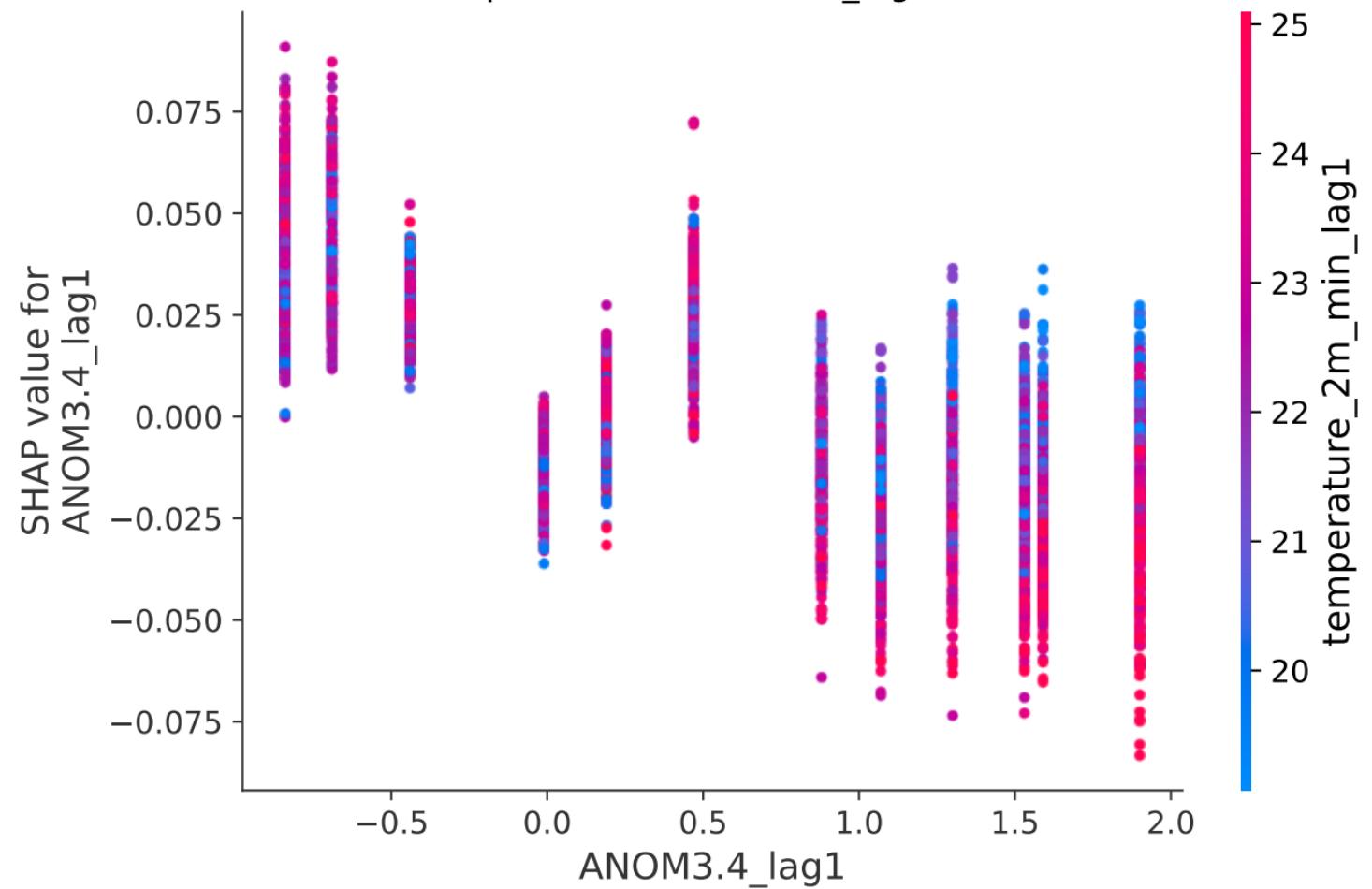
SHAP Dependence - ANOM4_lag2 - Class 0



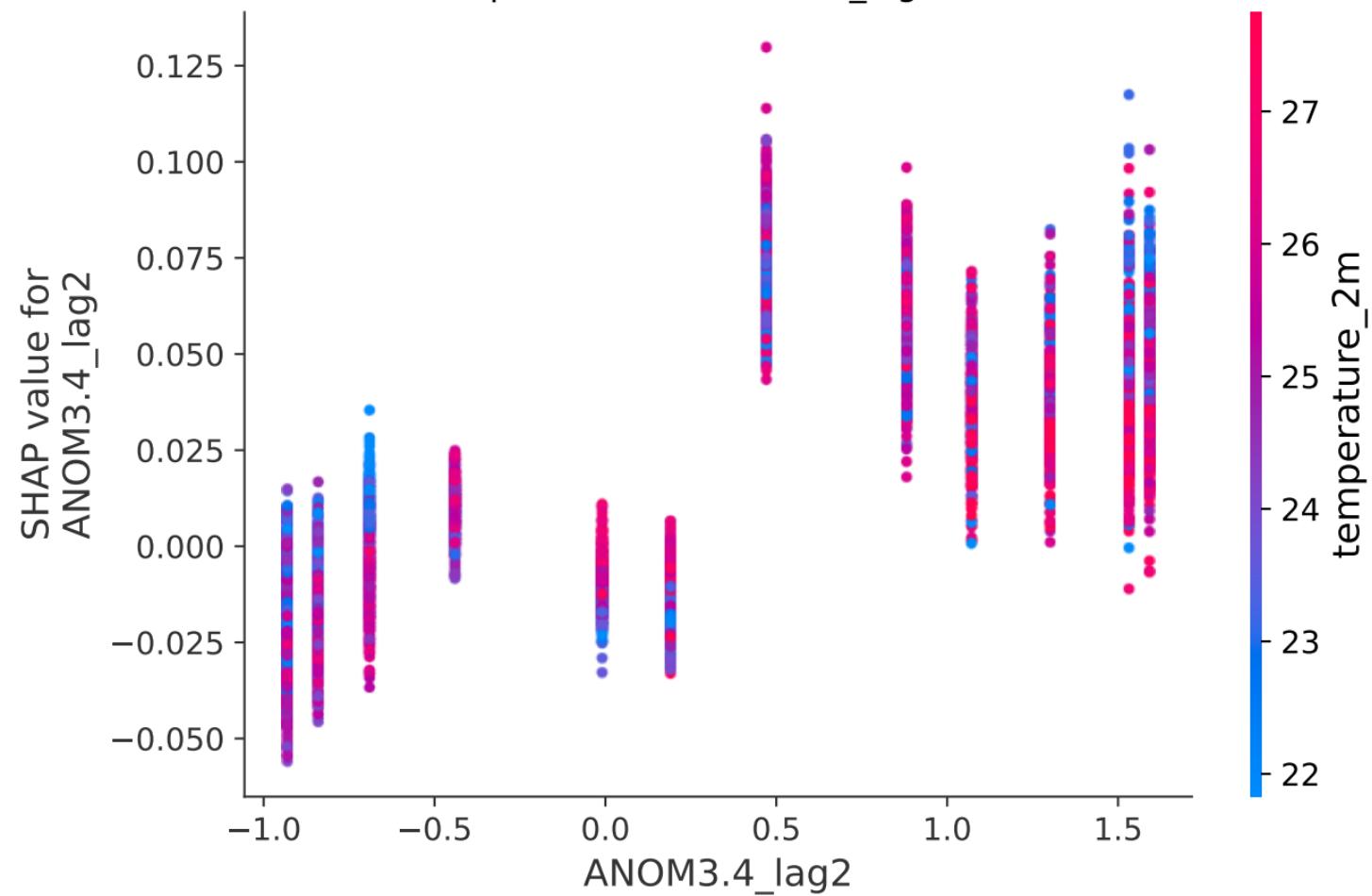
SHAP Dependence - ANOM4_lag3 - Class 0



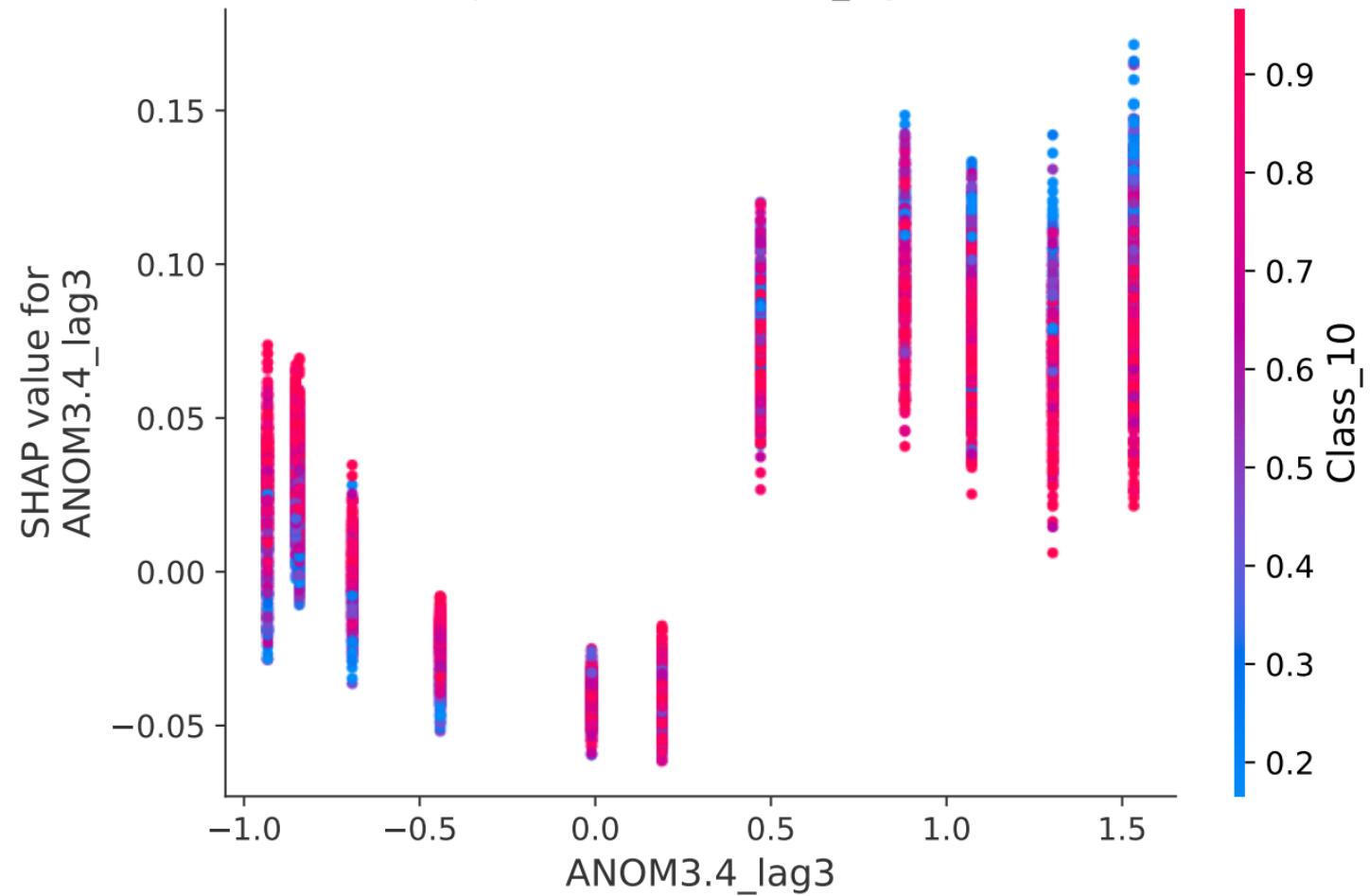
SHAP Dependence - ANOM3.4_lag1 - Class 0



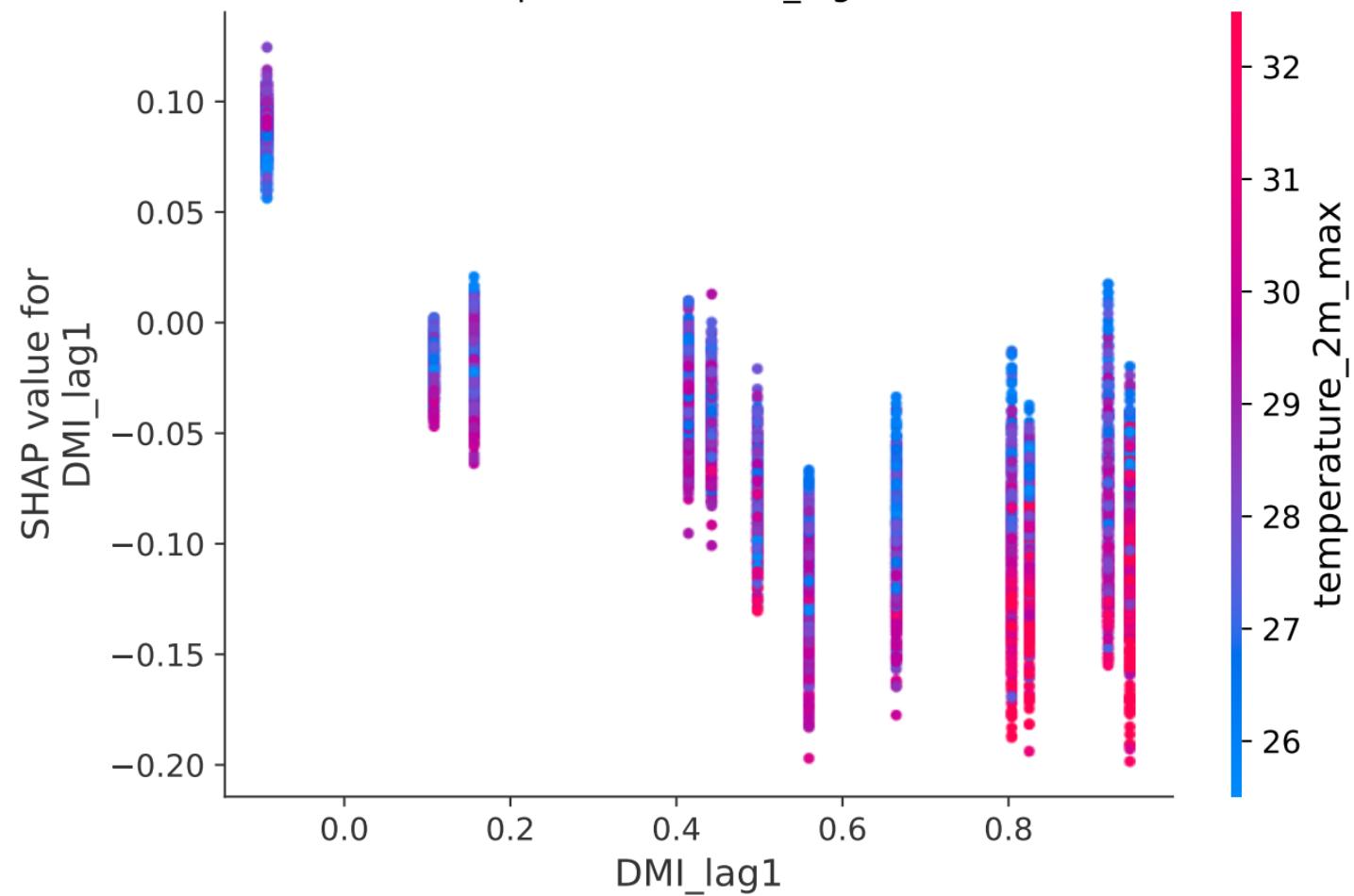
SHAP Dependence - ANOM3.4_lag2 - Class 0



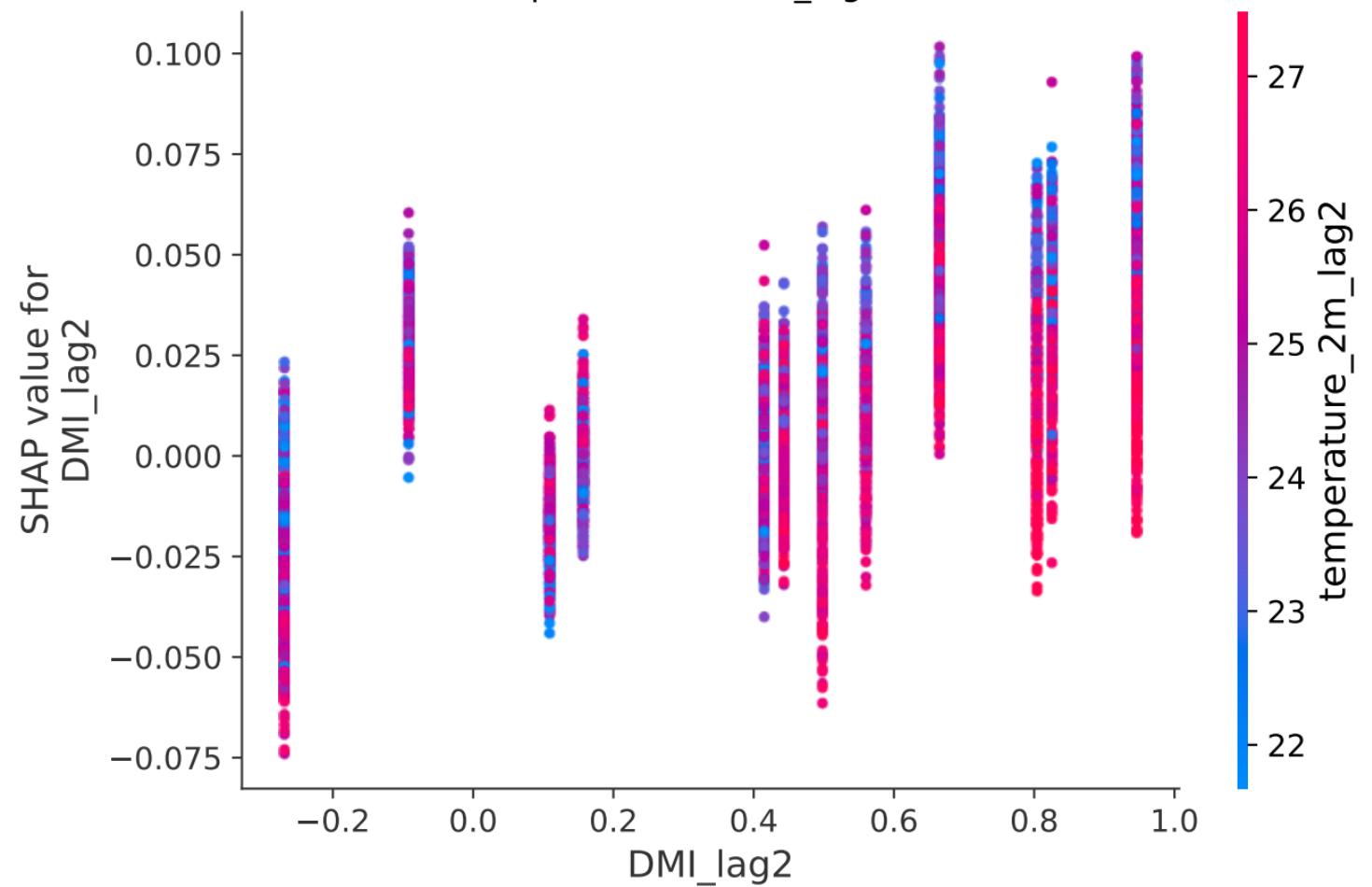
SHAP Dependence - ANOM3.4_lag3 - Class 0



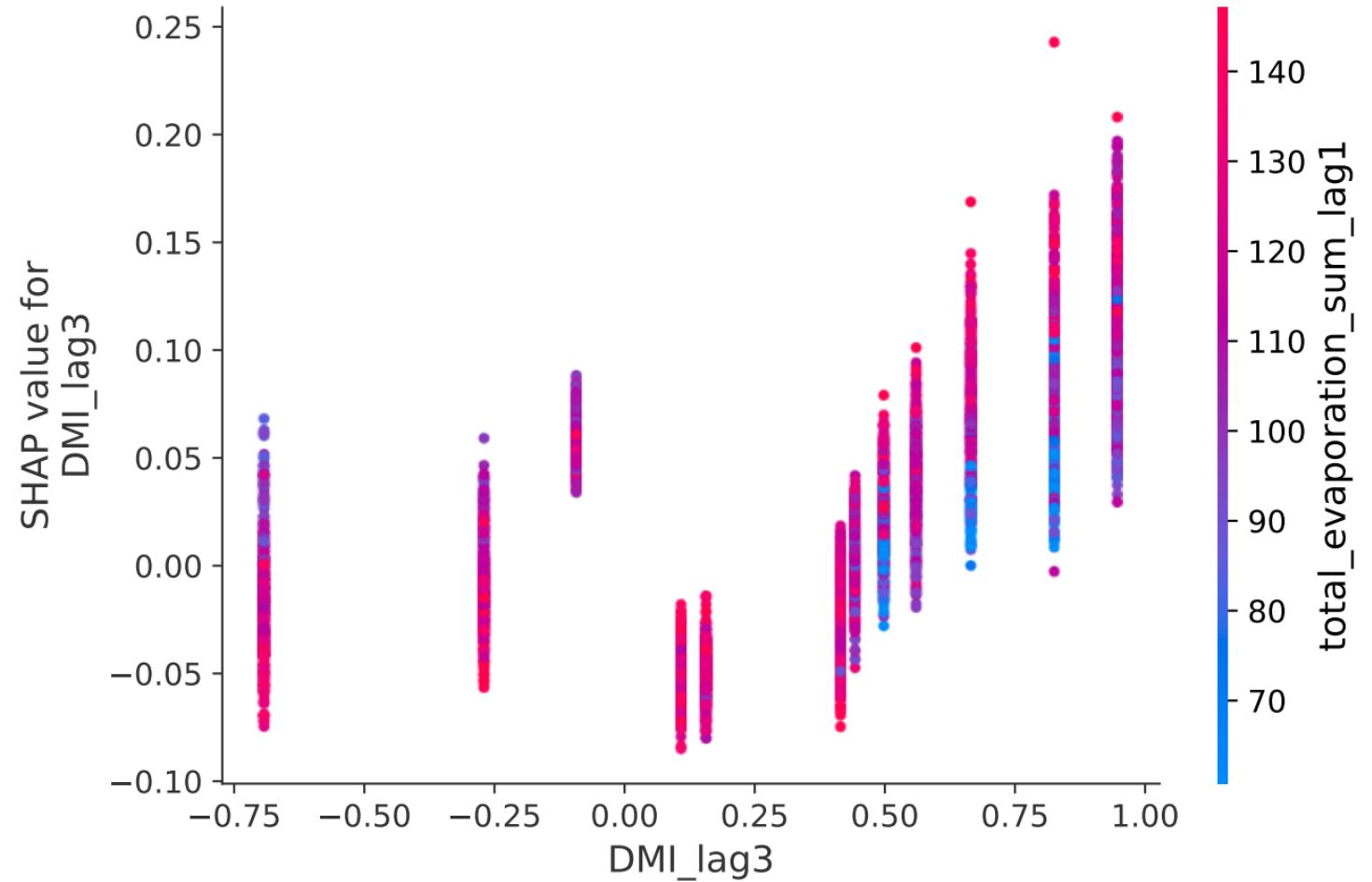
SHAP Dependence - DMI_lag1 - Class 0



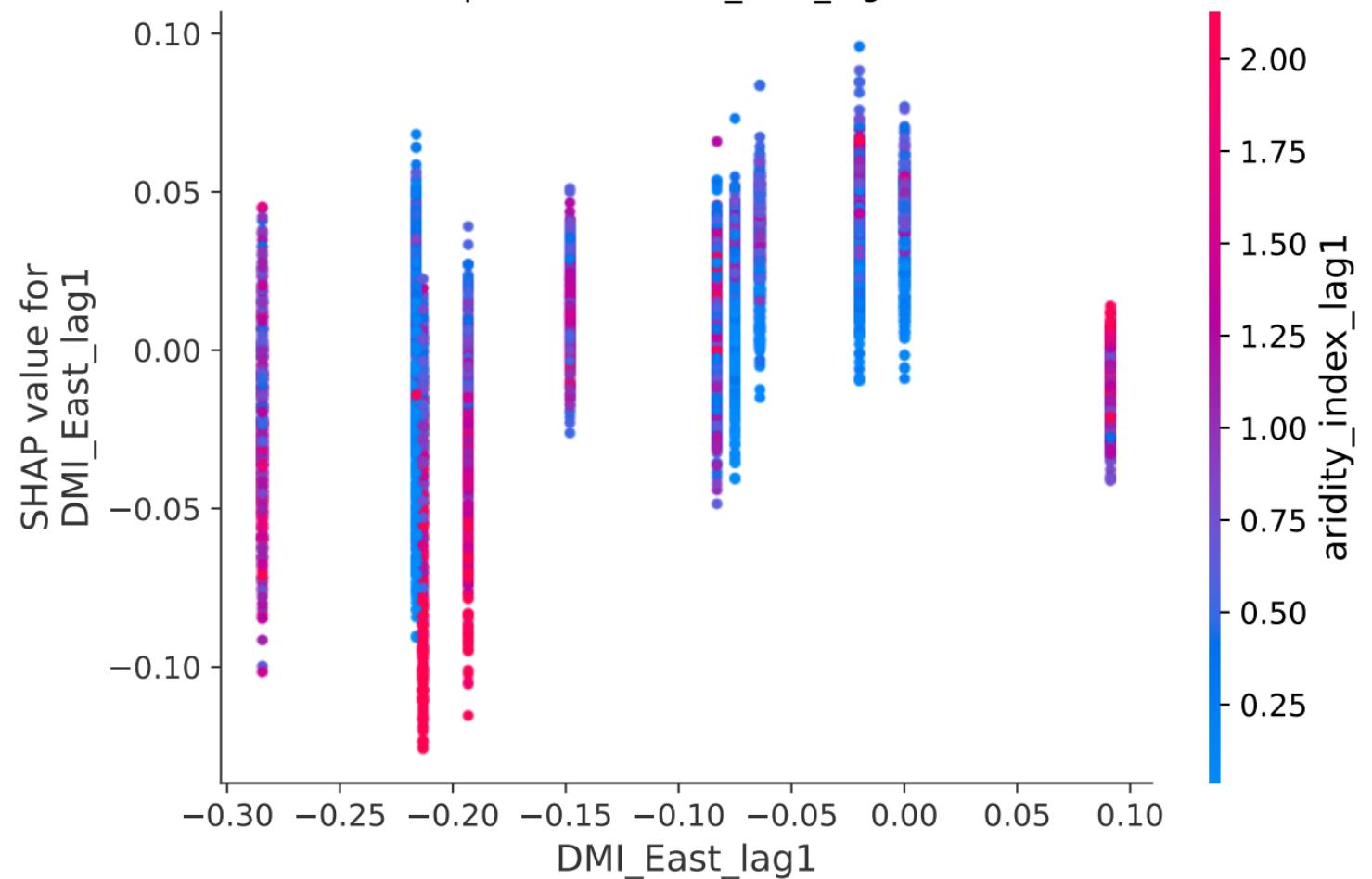
SHAP Dependence - DMI_lag2 - Class 0



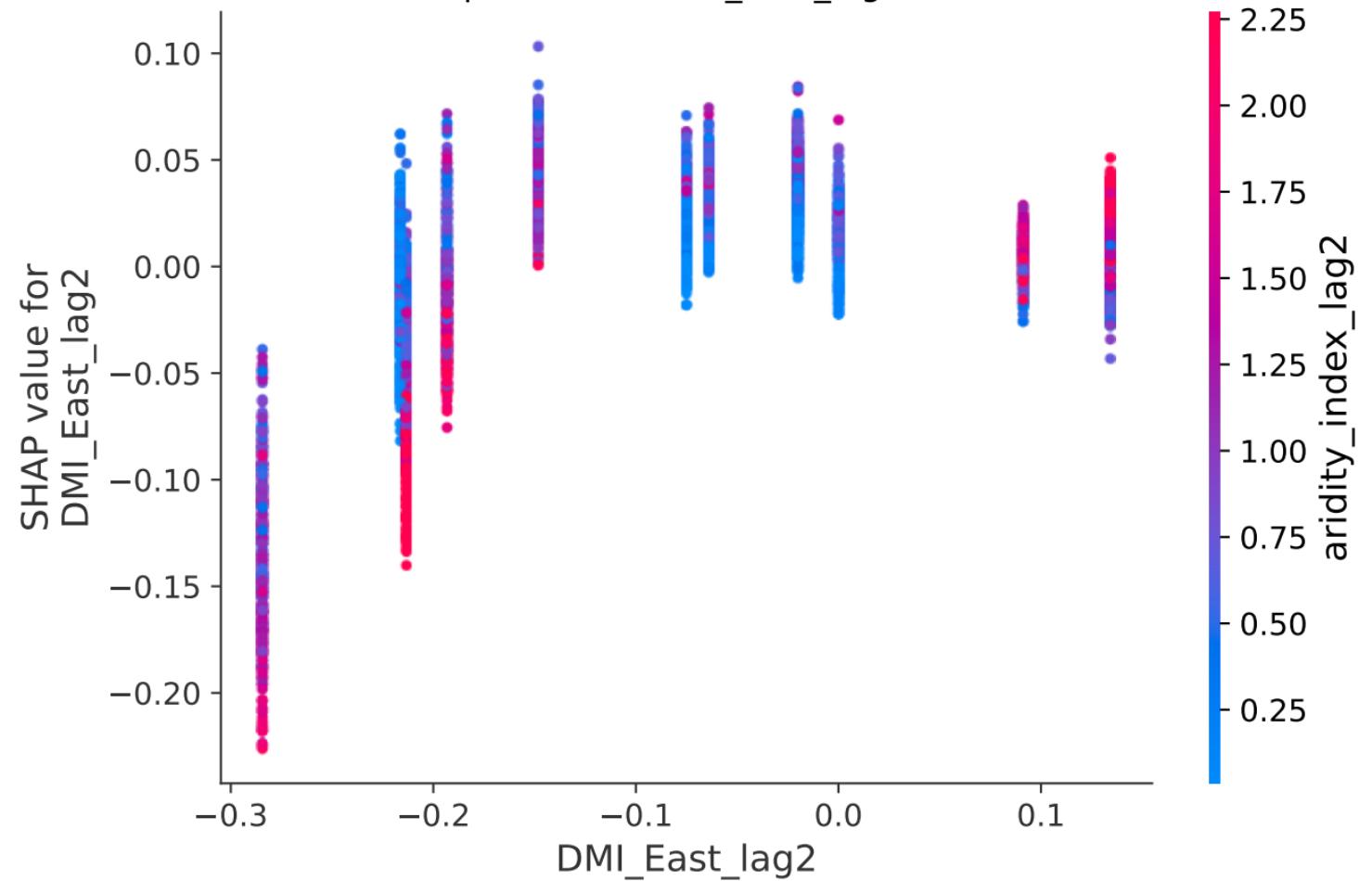
SHAP Dependence - DMI_lag3 - Class 0



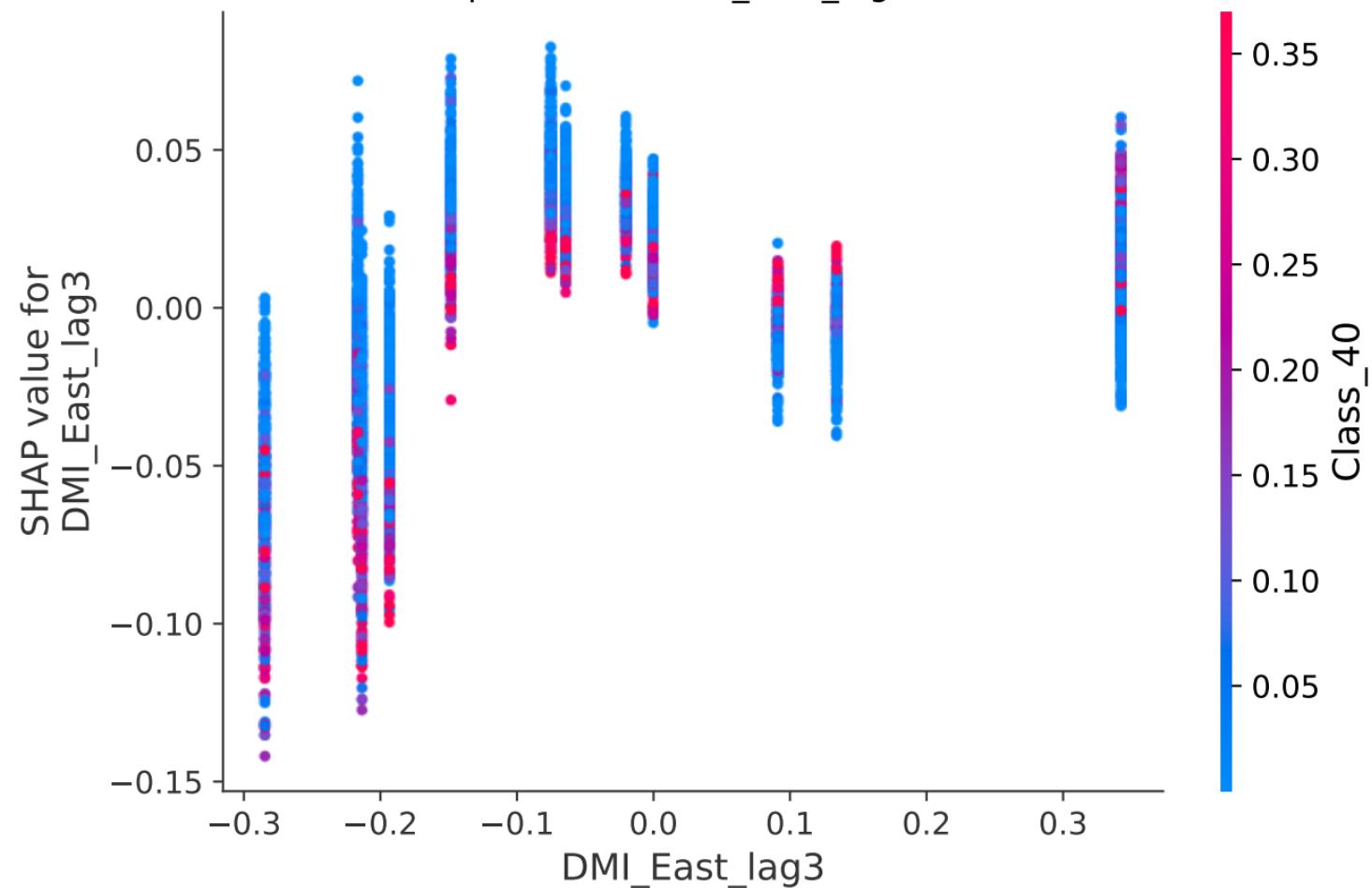
SHAP Dependence - DMI_East_lag1 - Class 0



SHAP Dependence - DMI_East_lag2 - Class 0



SHAP Dependence - DMI_East_lag3 - Class 0



SHAP Beeswarm - Class 1

High

Feature value

Low

Class_40

Class_50

Class_80

Class_10

Class_60

temperature_2m_max

Class_90

Class_30

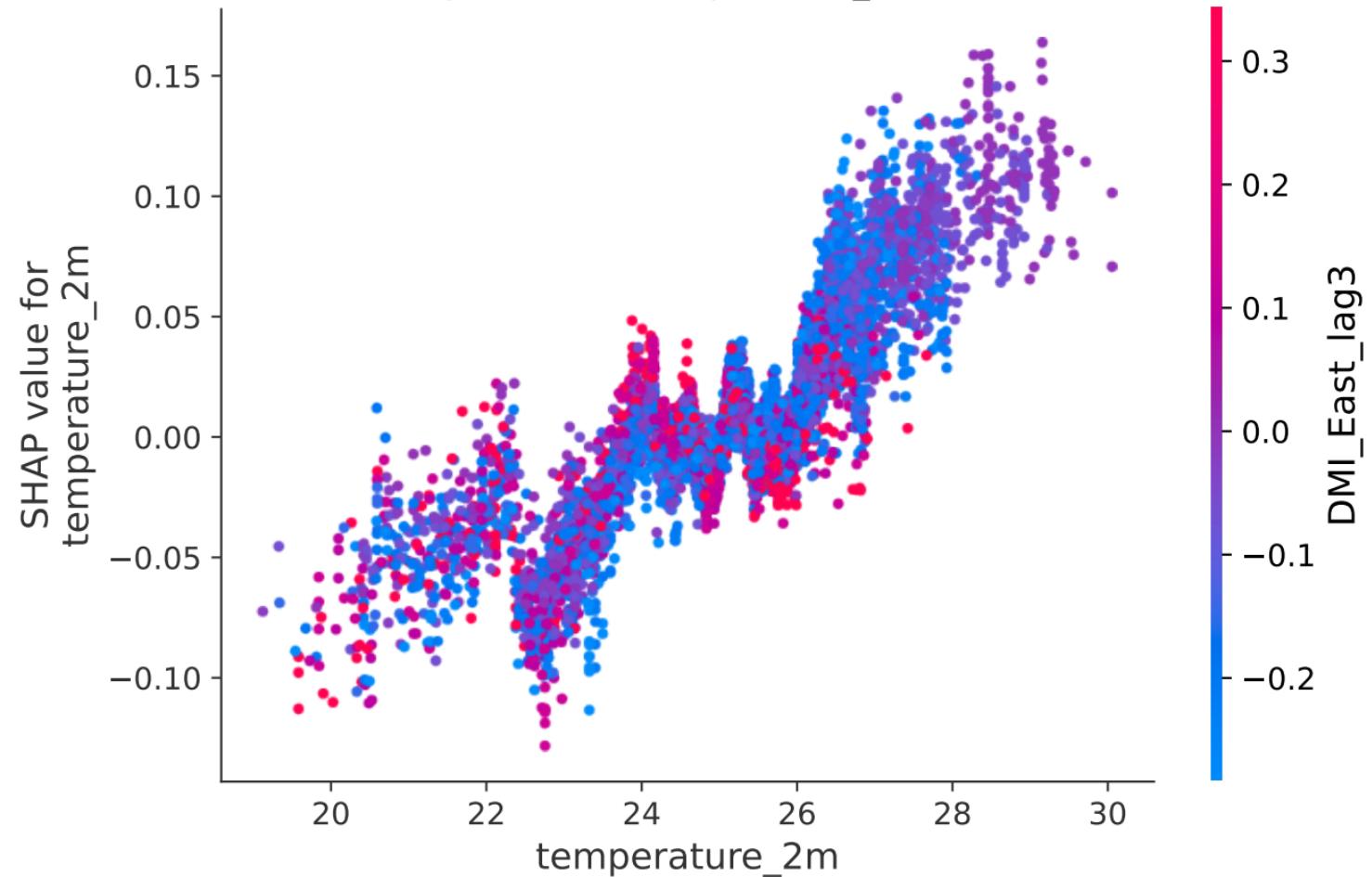
DMI

Sum of 81 other features

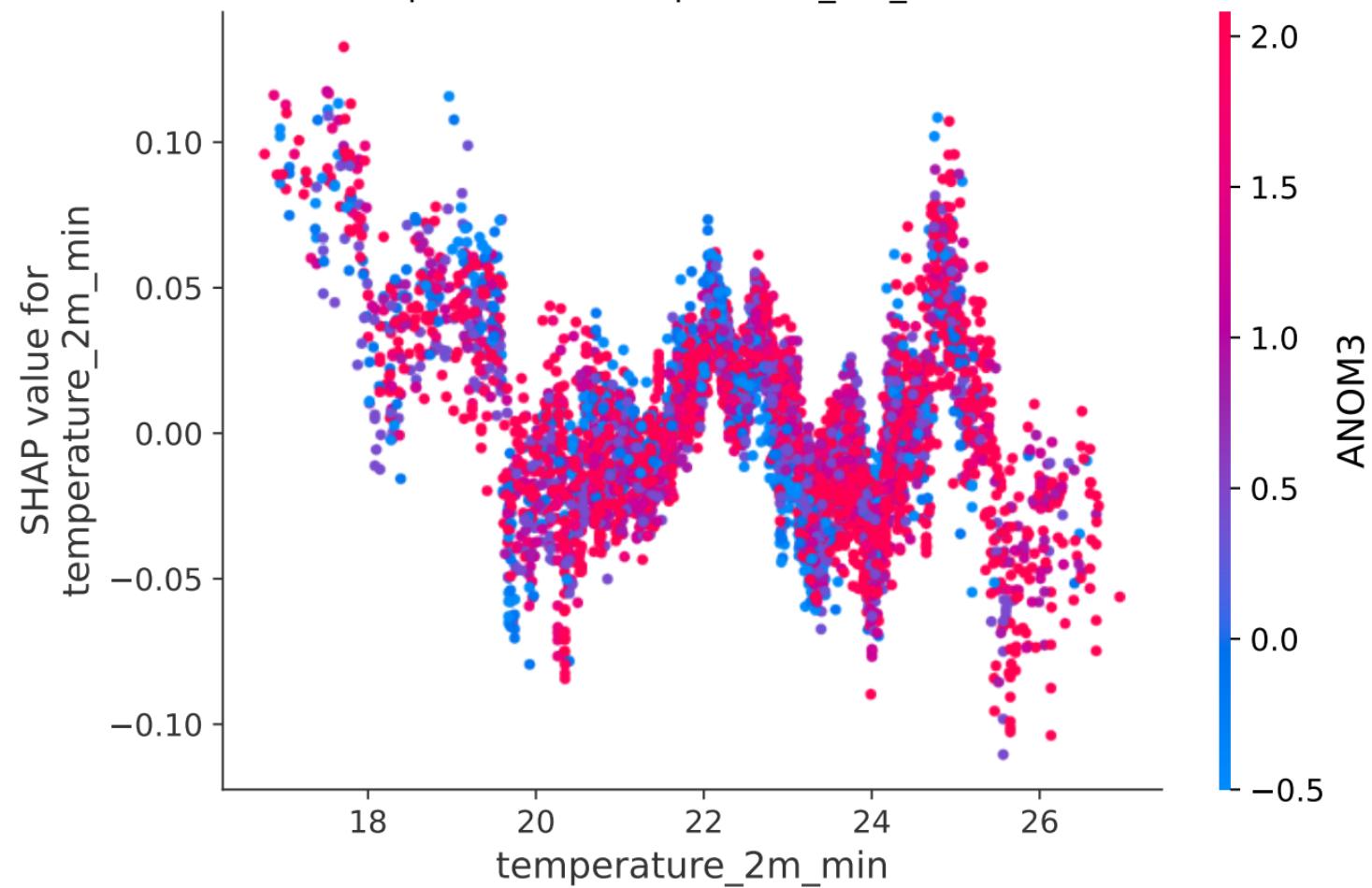
-2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5

SHAP value (impact on model output)

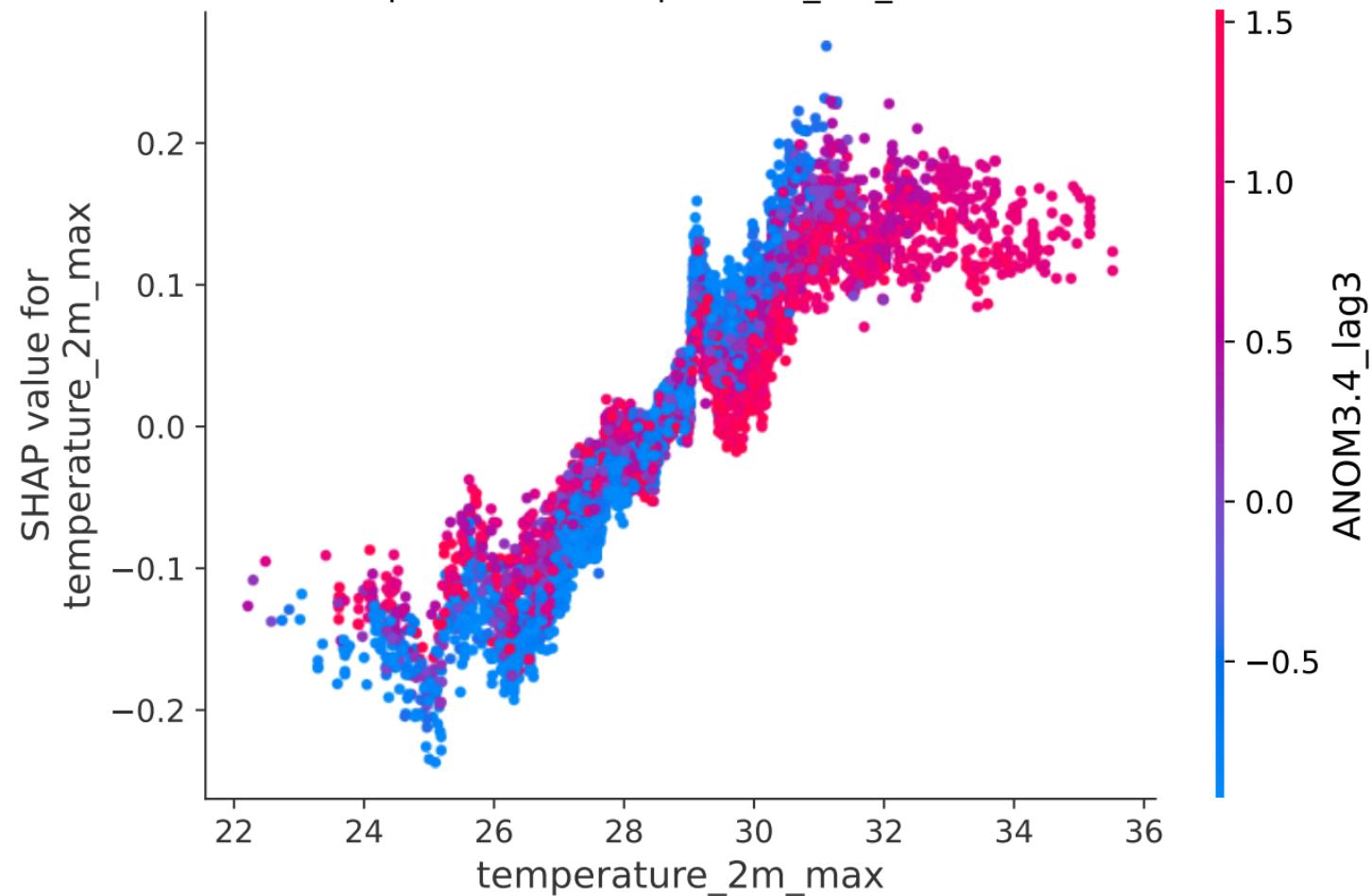
SHAP Dependence - temperature_2m - Class 1



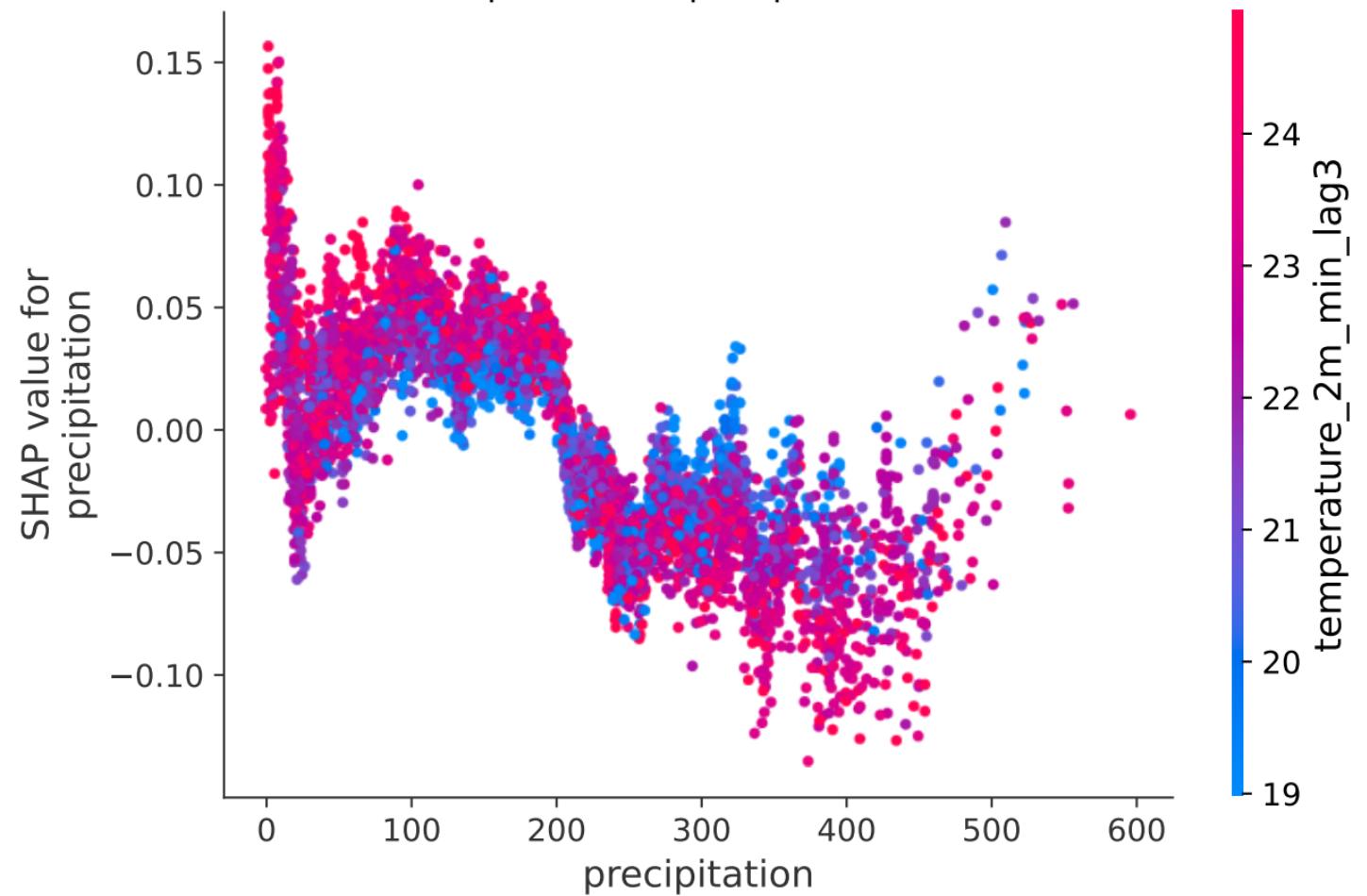
SHAP Dependence - temperature_2m_min - Class 1



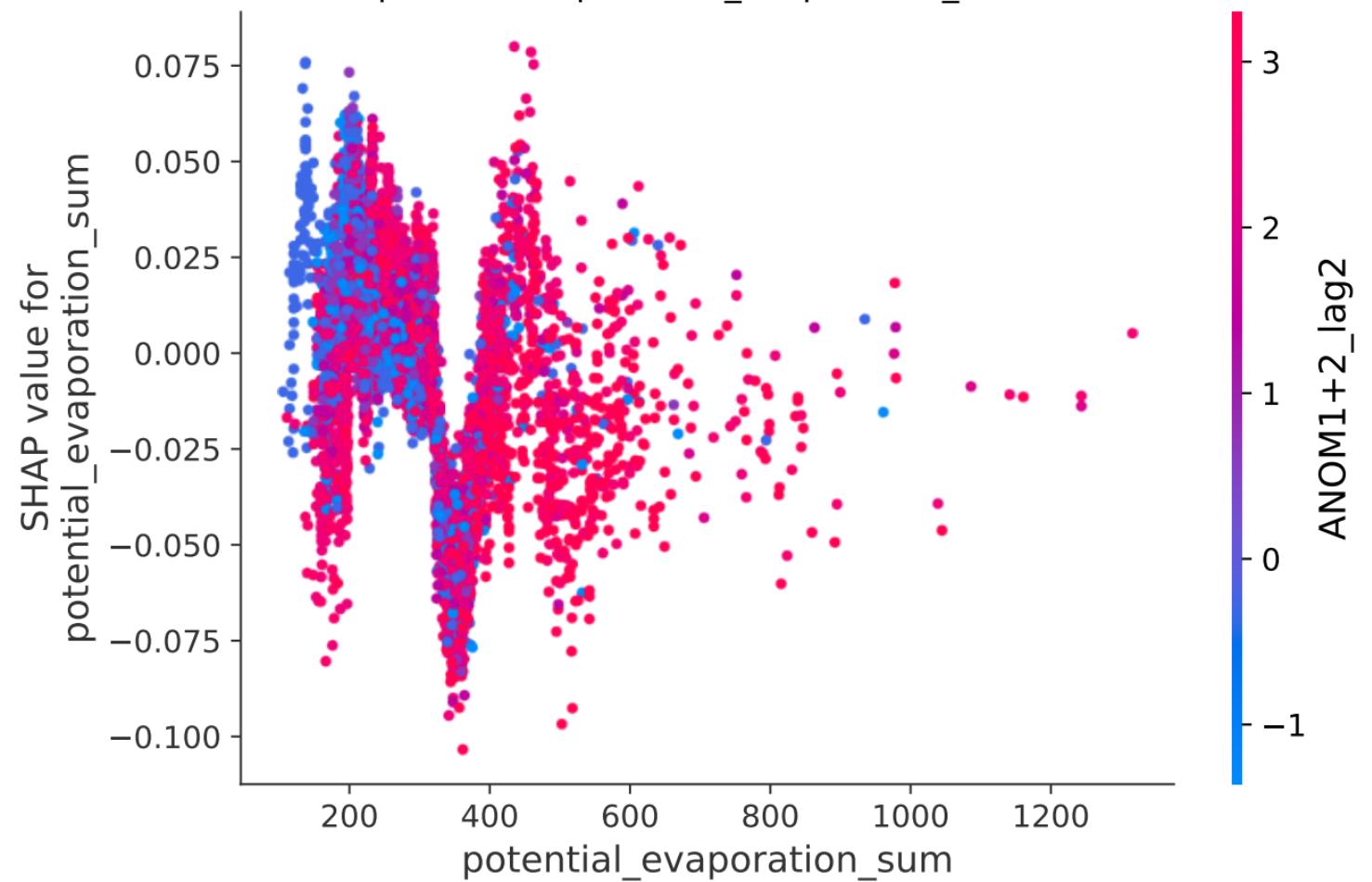
SHAP Dependence - temperature_2m_max - Class 1



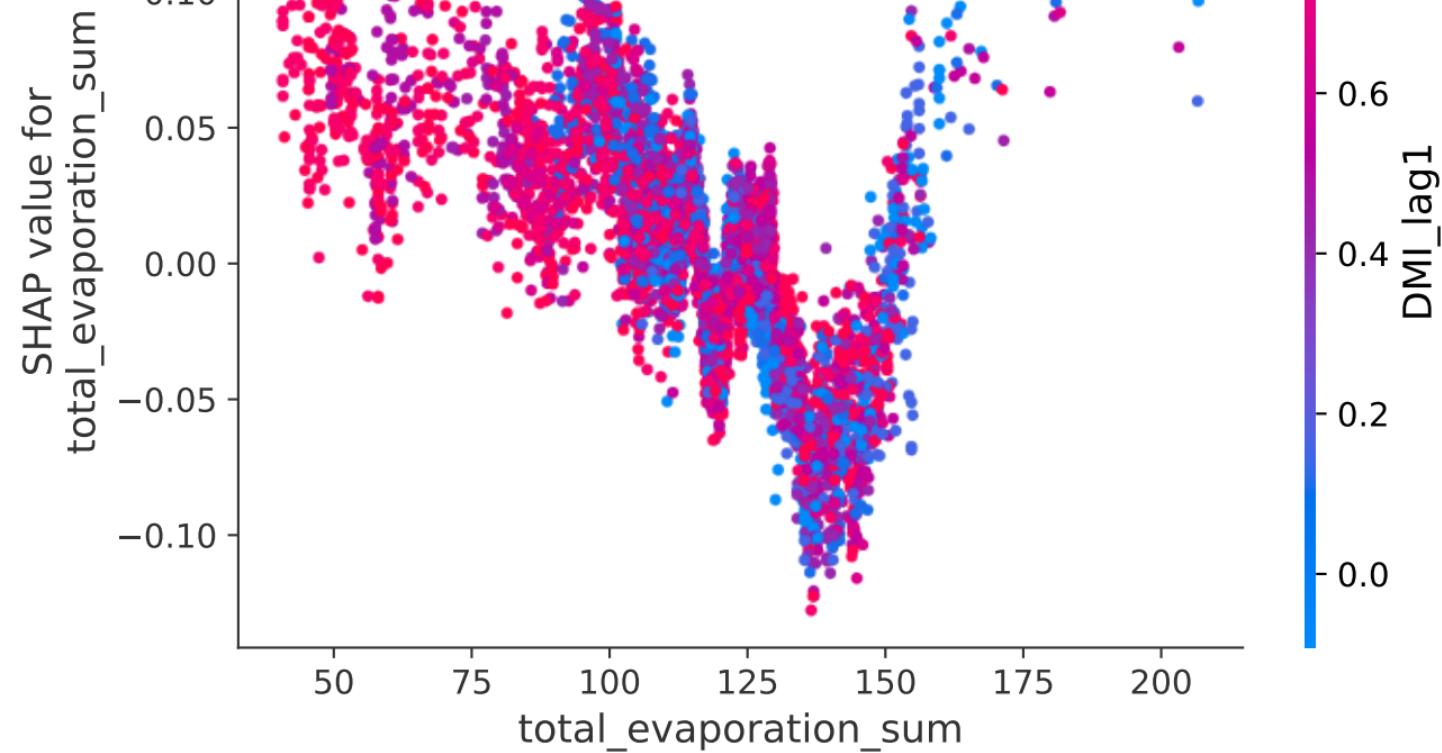
SHAP Dependence - precipitation - Class 1



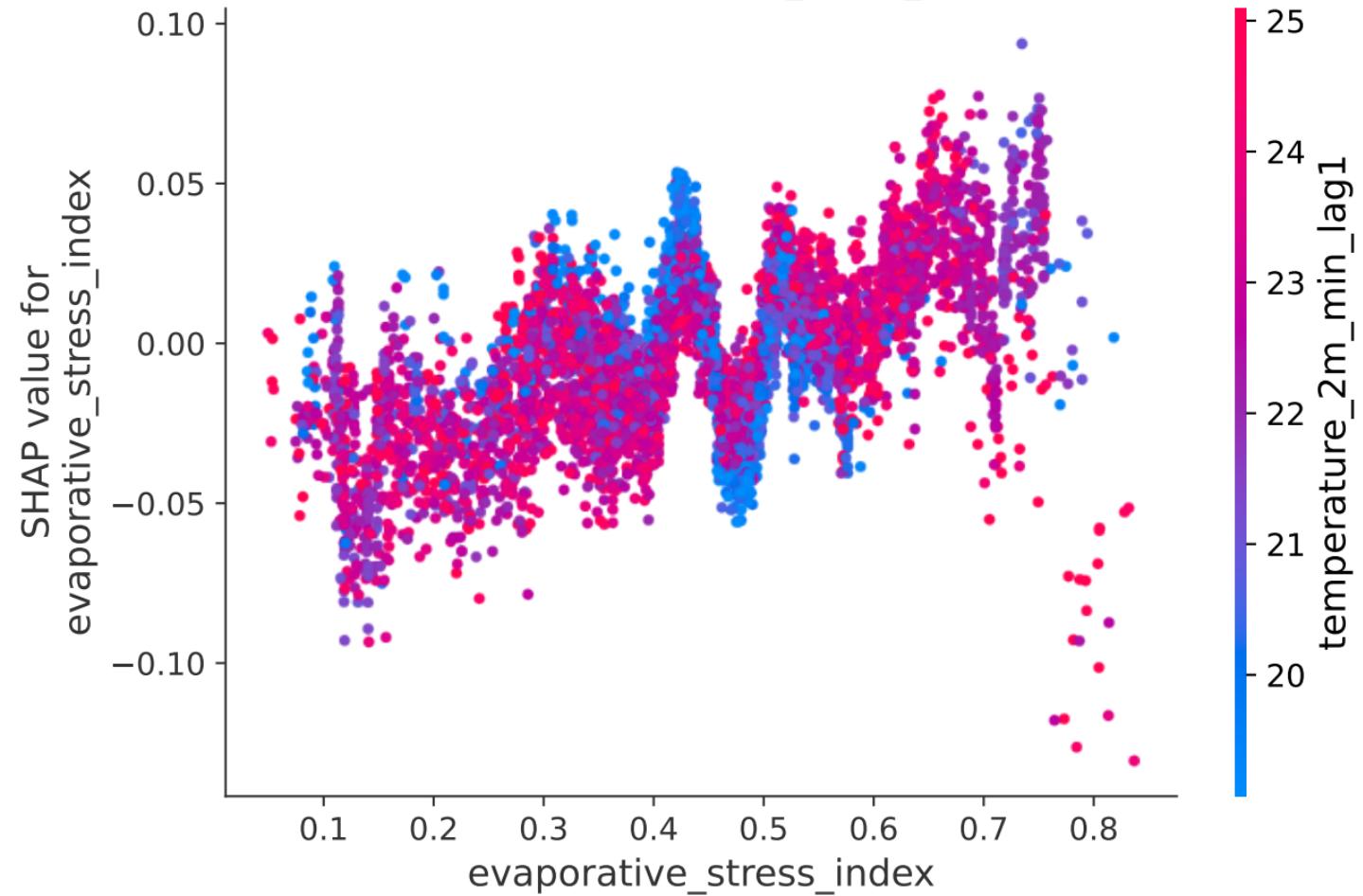
SHAP Dependence - potential_evaporation_sum - Class 1



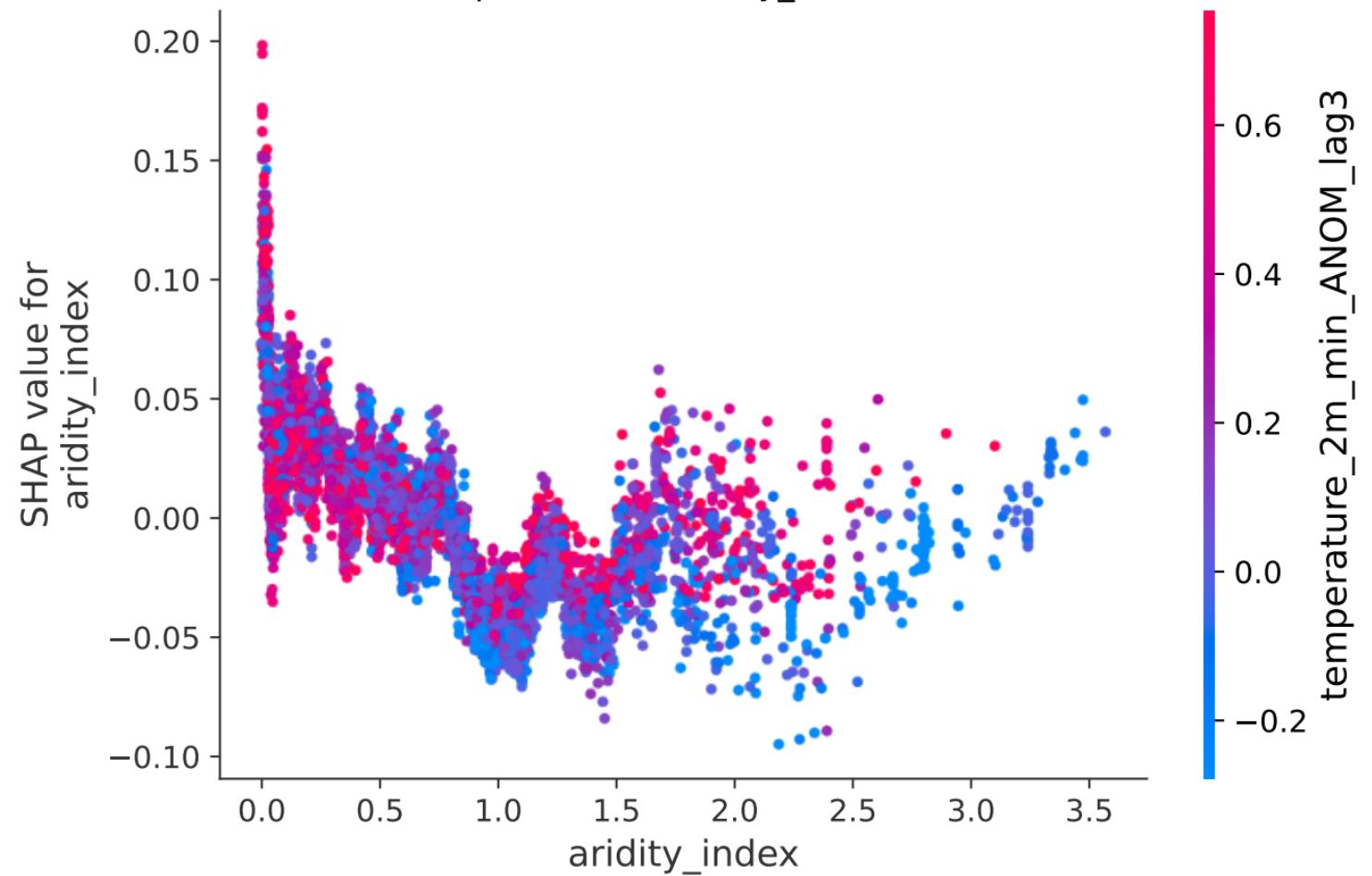
SHAP Dependence - total_evaporation_sum - Class 1



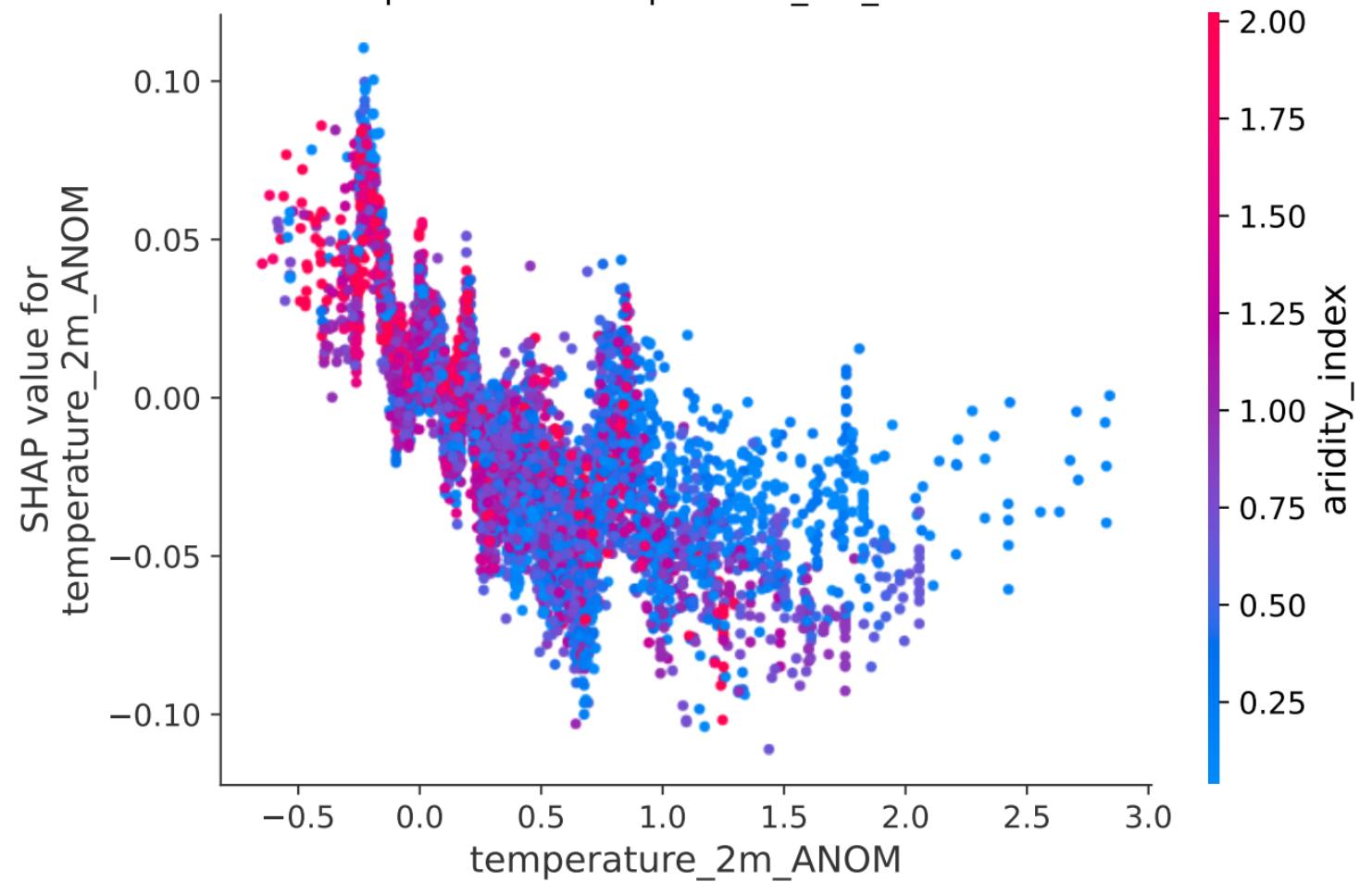
SHAP Dependence - evaporative_stress_index - Class 1



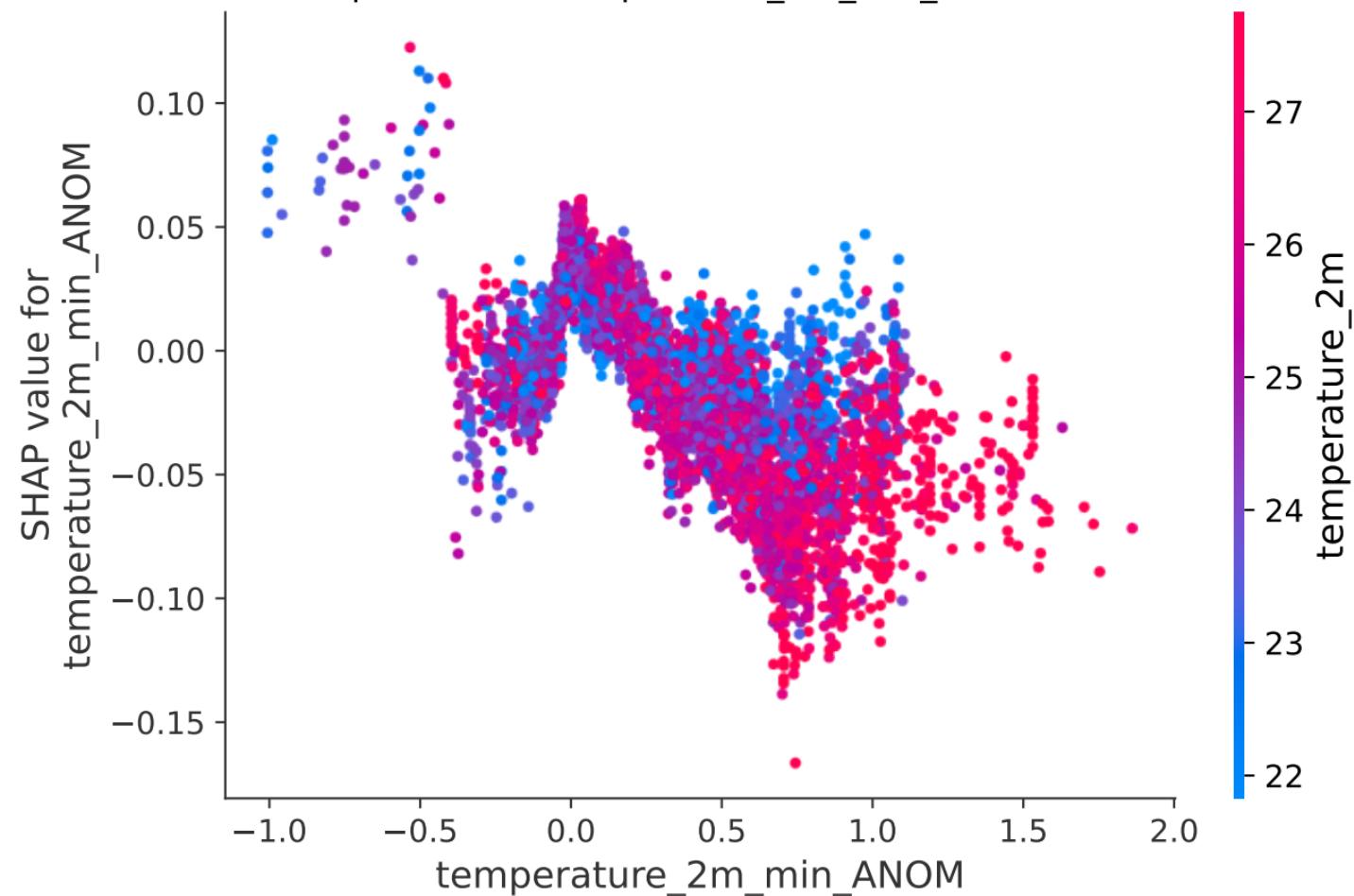
SHAP Dependence - aridity_index - Class 1



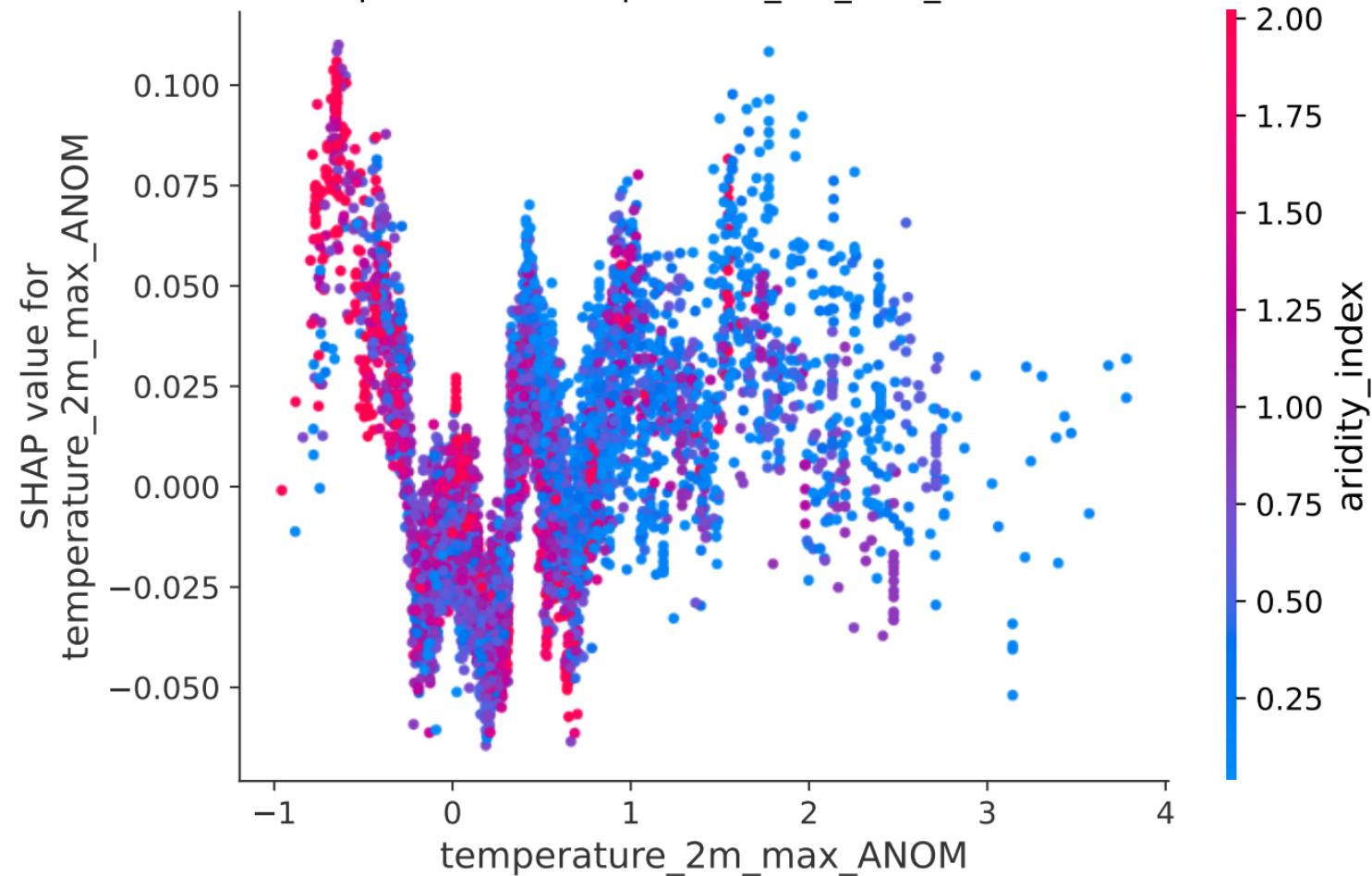
SHAP Dependence - temperature_2m_ANOM - Class 1



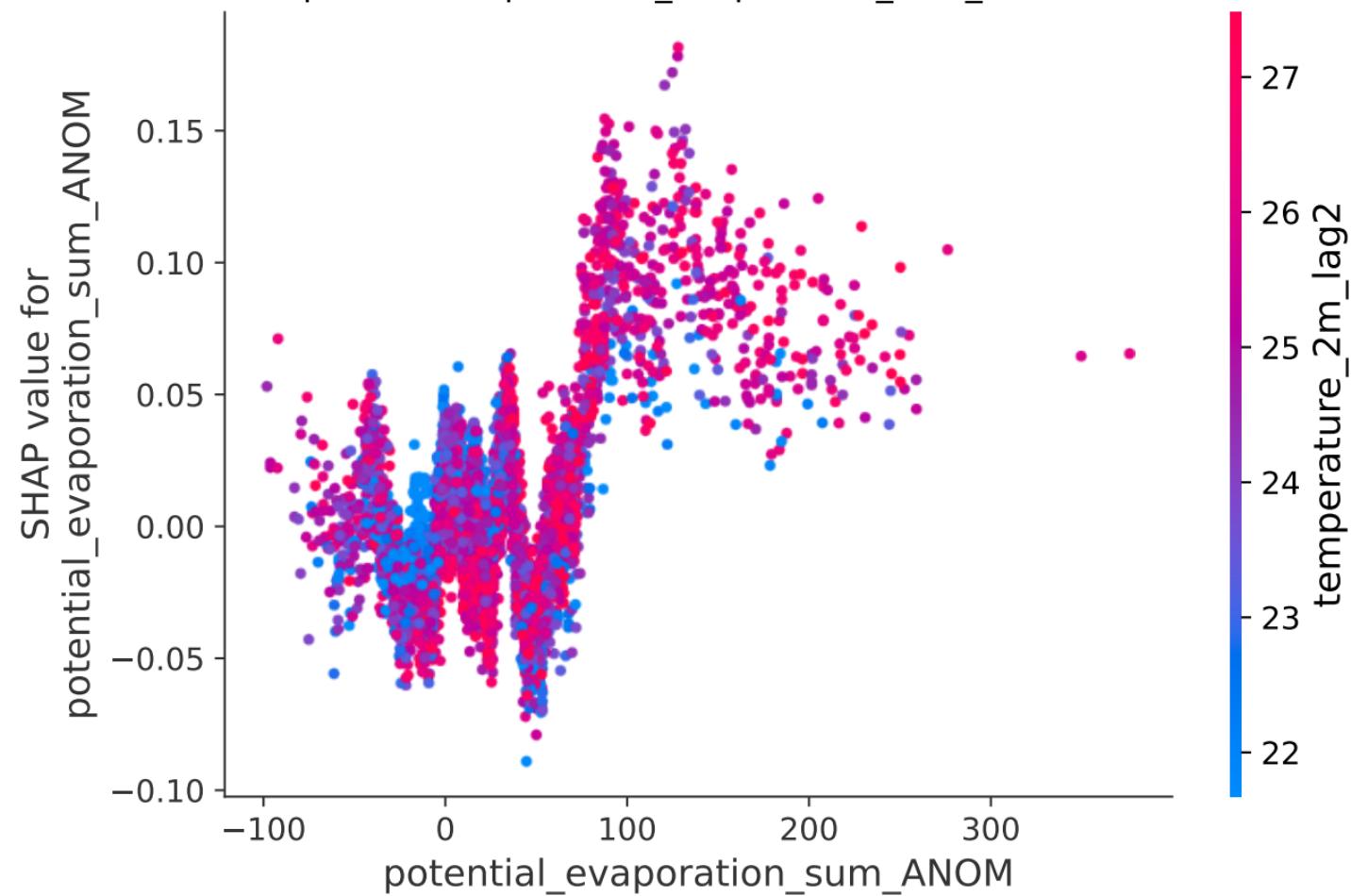
SHAP Dependence - temperature_2m_min_ANOM - Class 1



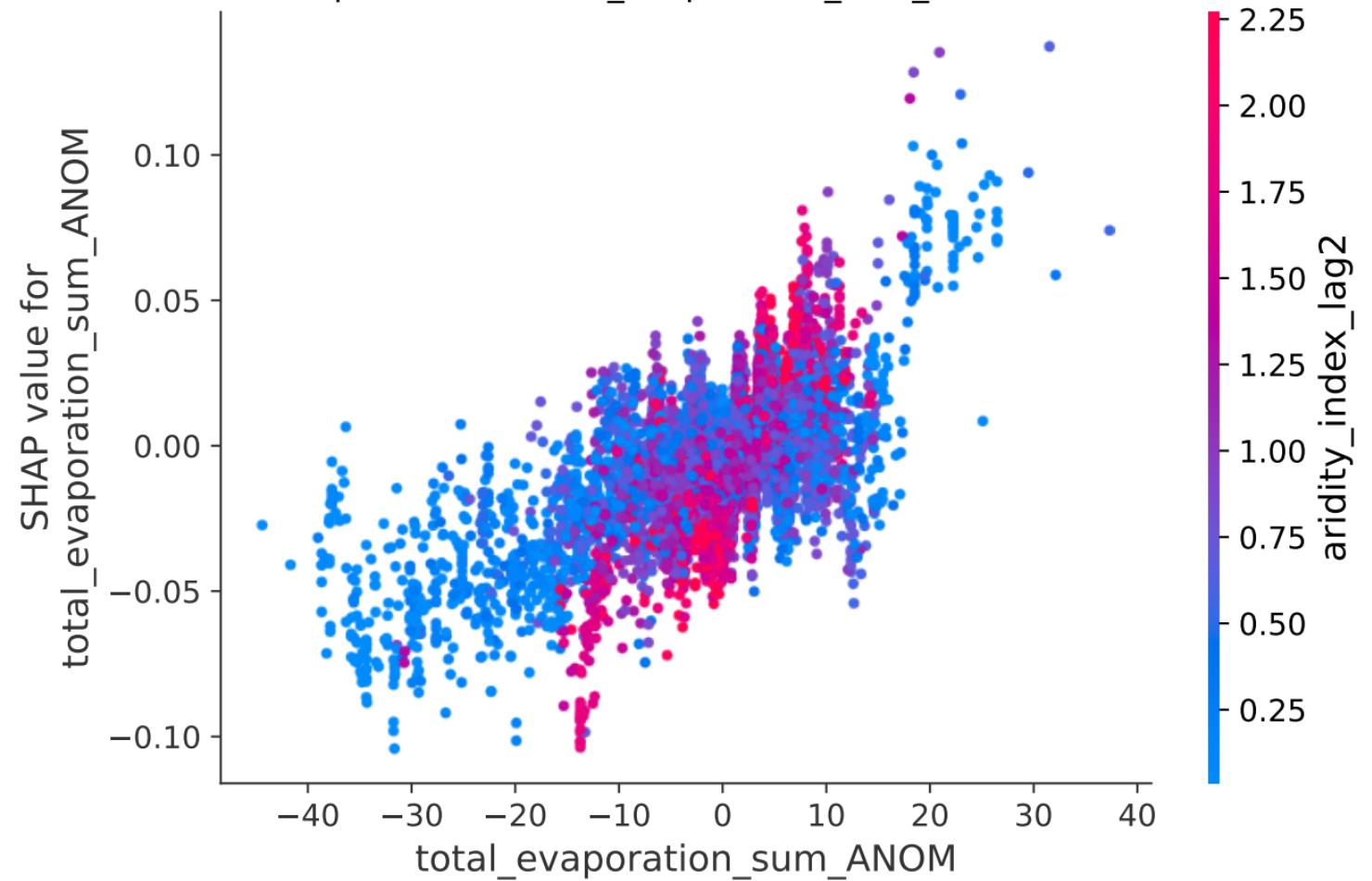
SHAP Dependence - temperature_2m_max_ANOM - Class 1



SHAP Dependence - potential_evaporation_sum_ANOM - Class 1

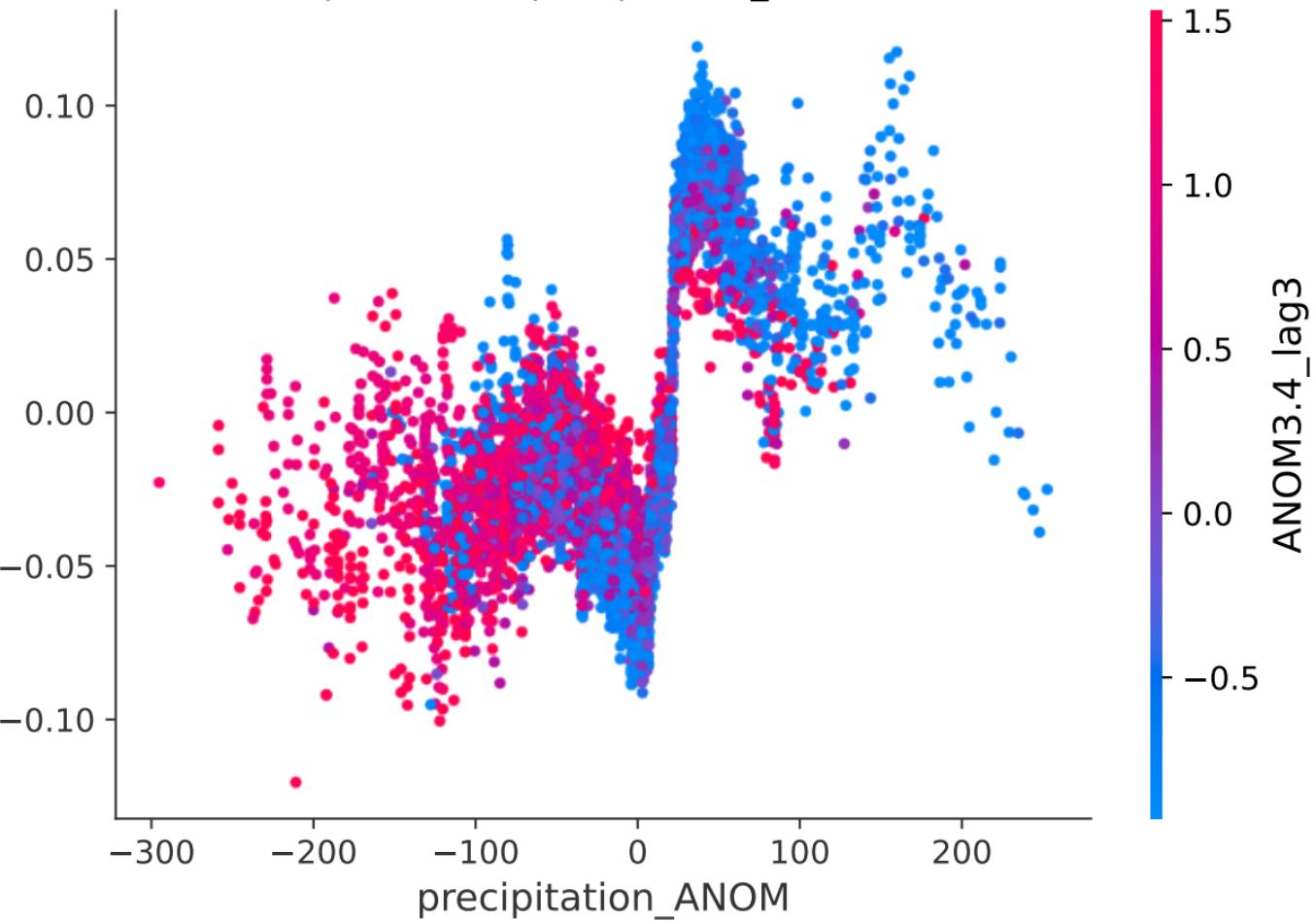


SHAP Dependence - total_evaporation_sum_ANOM - Class 1

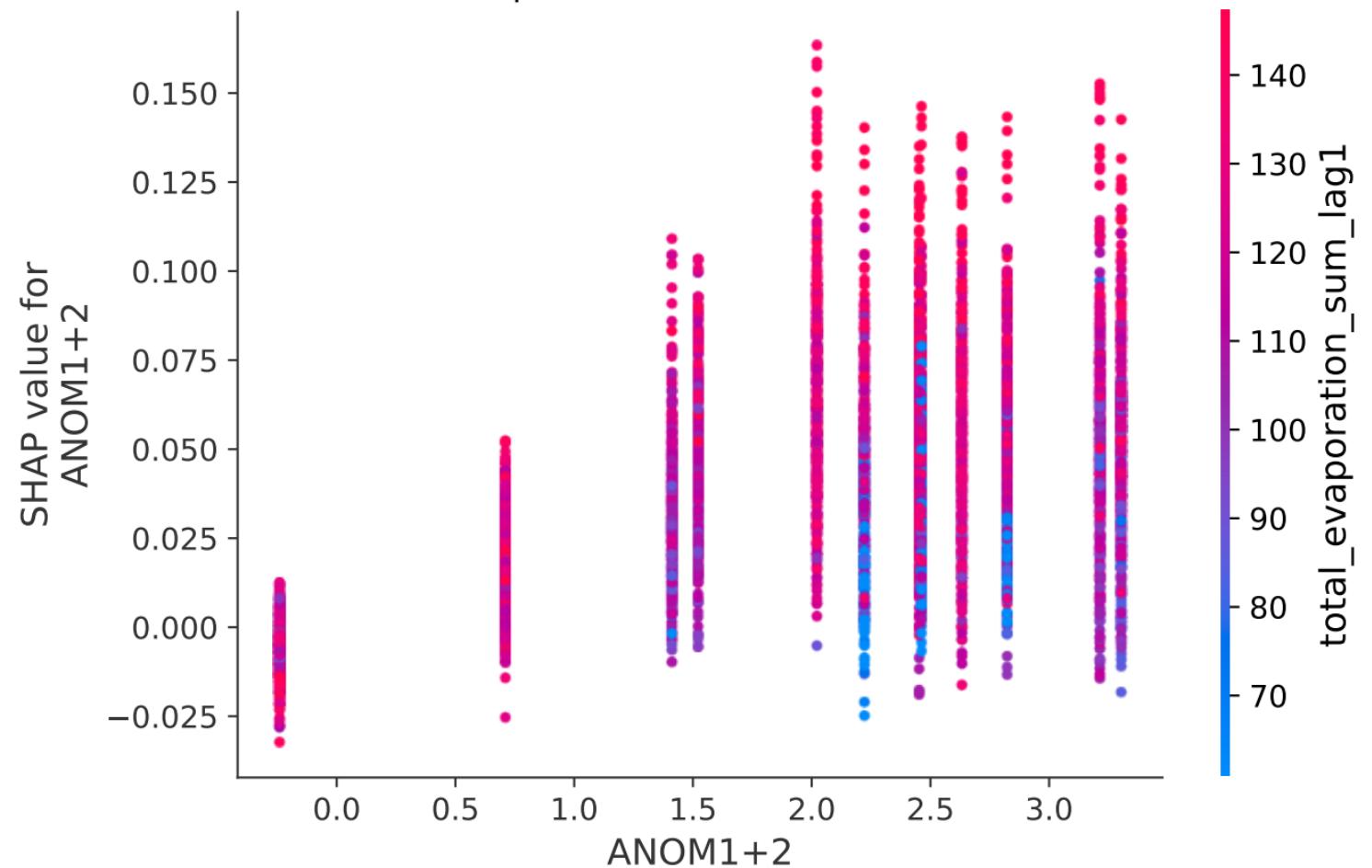


SHAP Dependence - precipitation_ANOM - Class 1

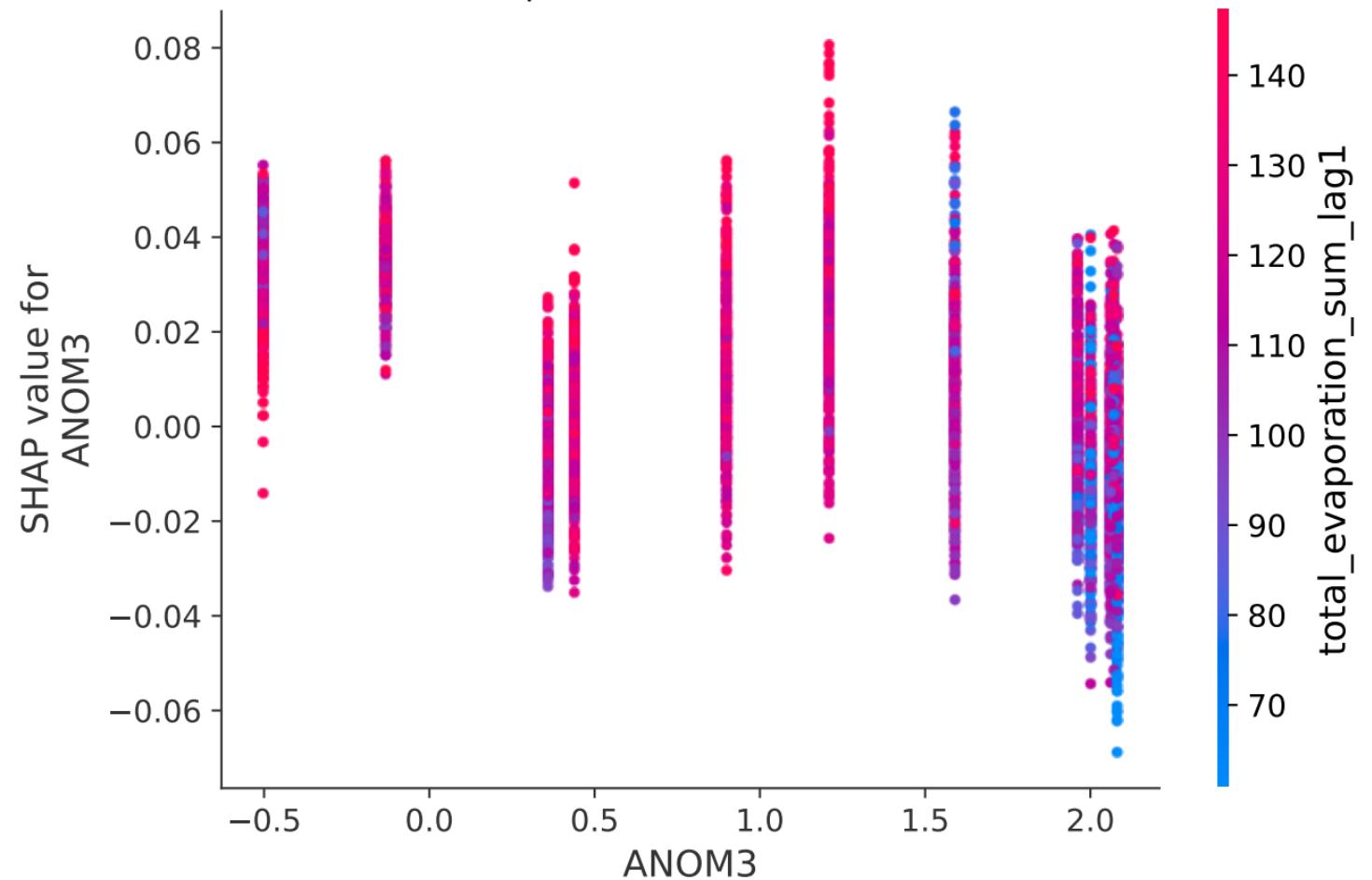
SHAP value for
precipitation_ANOM



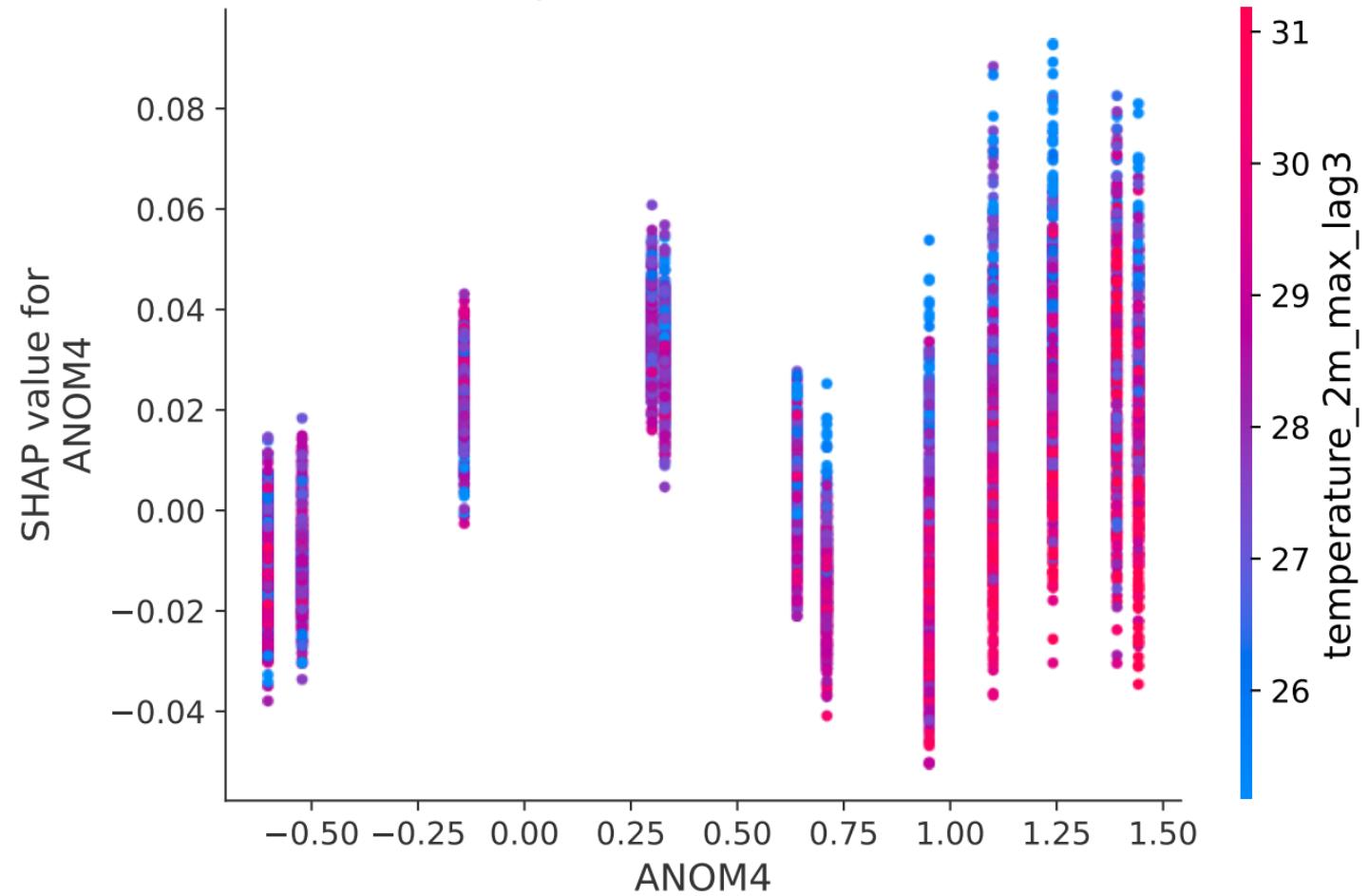
SHAP Dependence - ANOM1+2 - Class 1



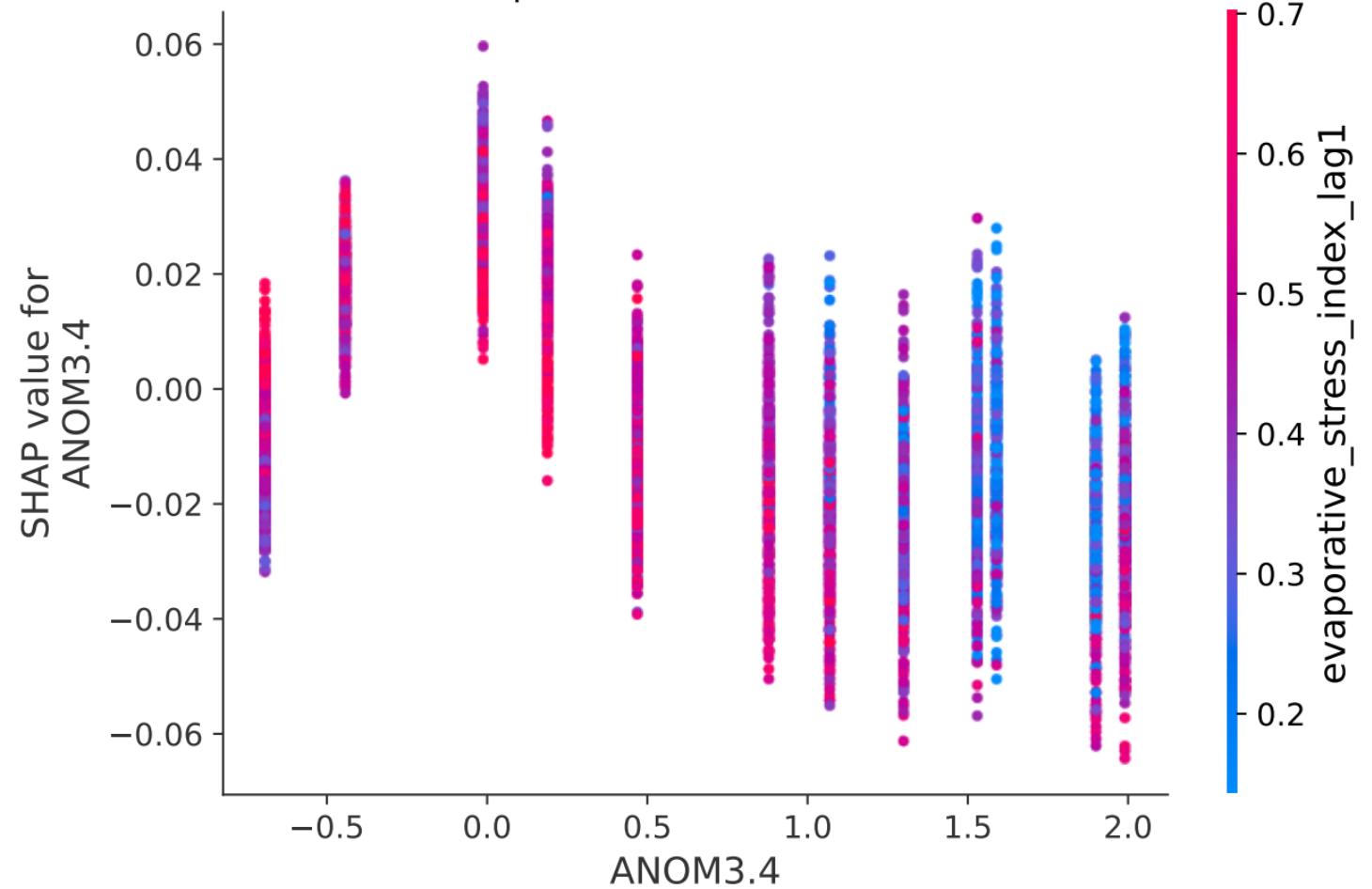
SHAP Dependence - ANOM3 - Class 1



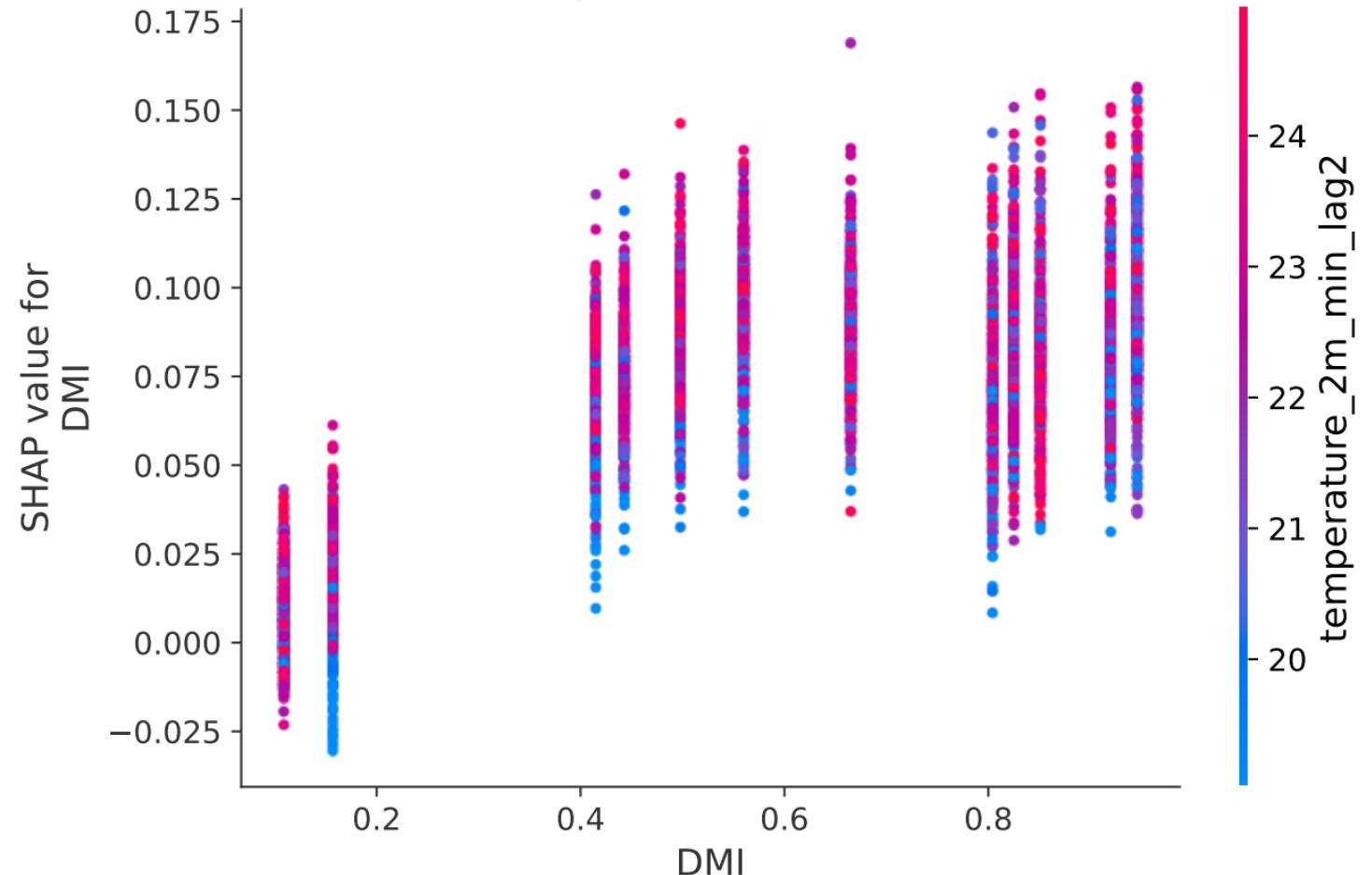
SHAP Dependence - ANOM4 - Class 1



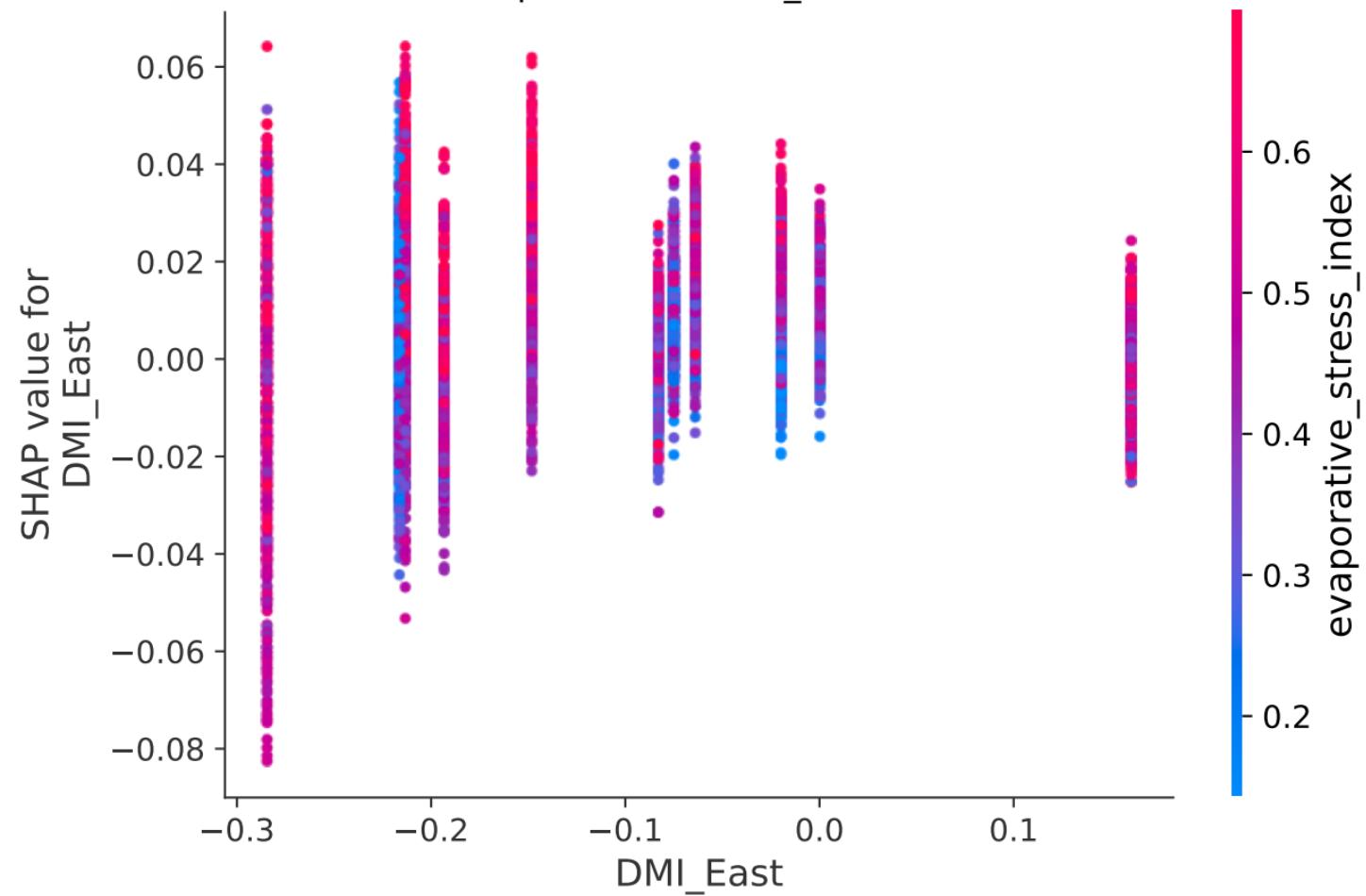
SHAP Dependence - ANOM3.4 - Class 1



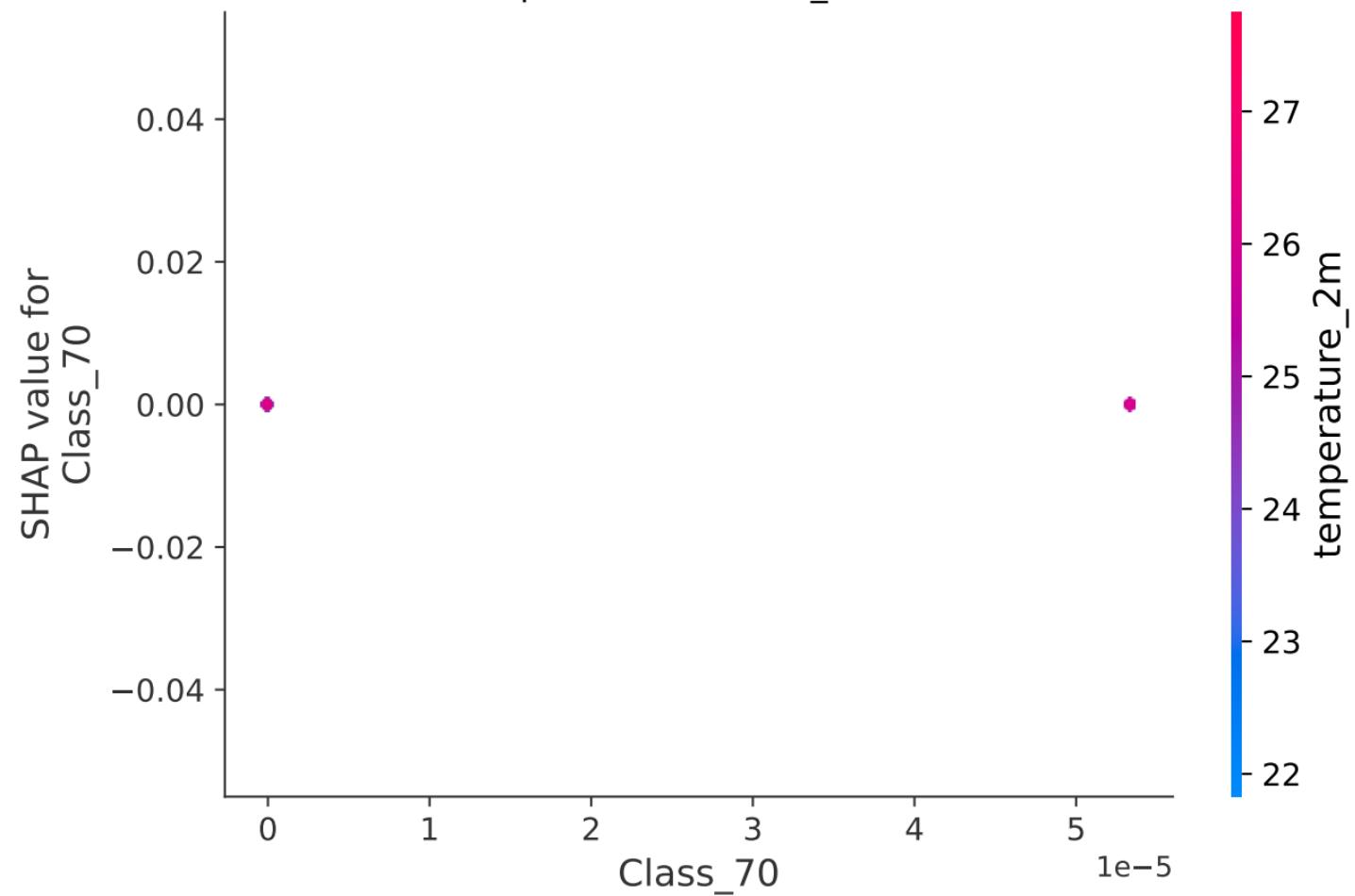
SHAP Dependence - DMI - Class 1



SHAP Dependence - DMI_East - Class 1

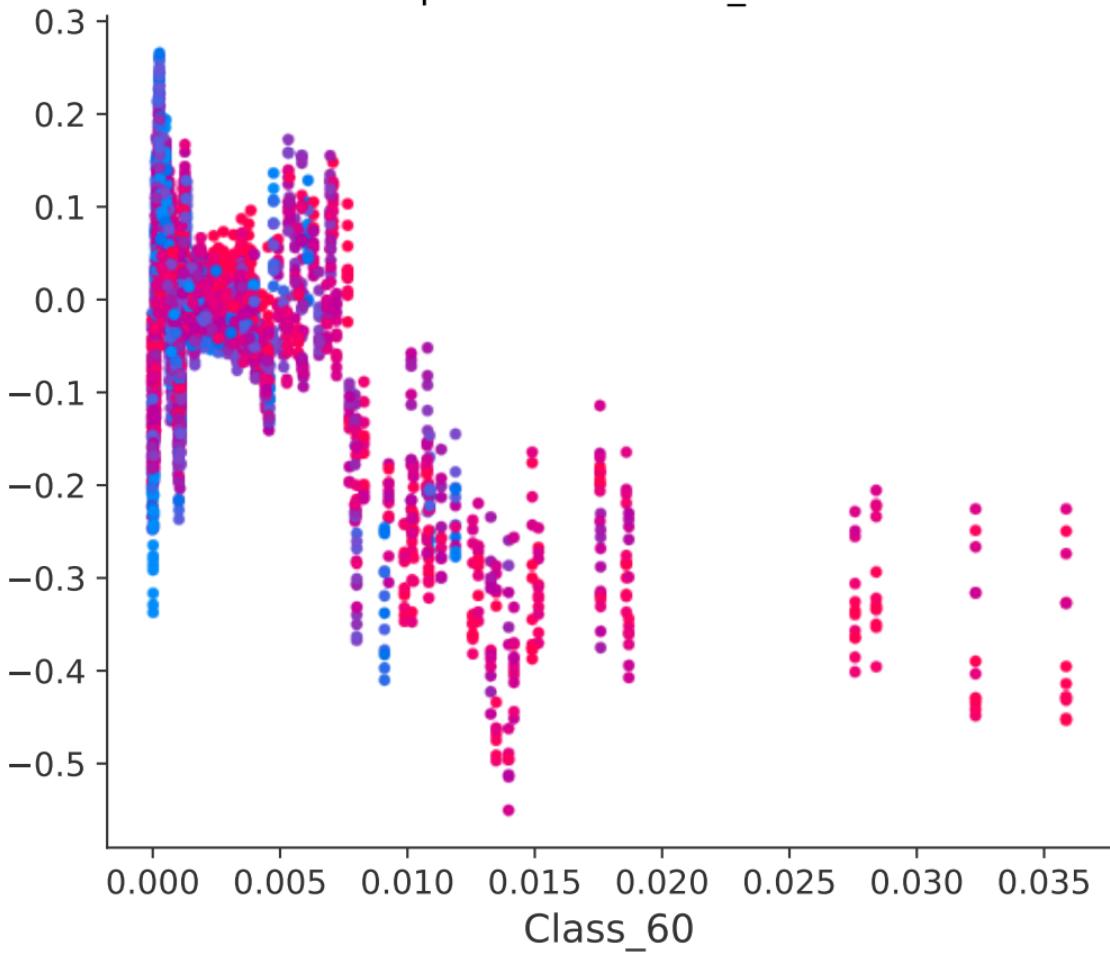


SHAP Dependence - Class_70 - Class 1



SHAP Dependence - Class_60 - Class 1

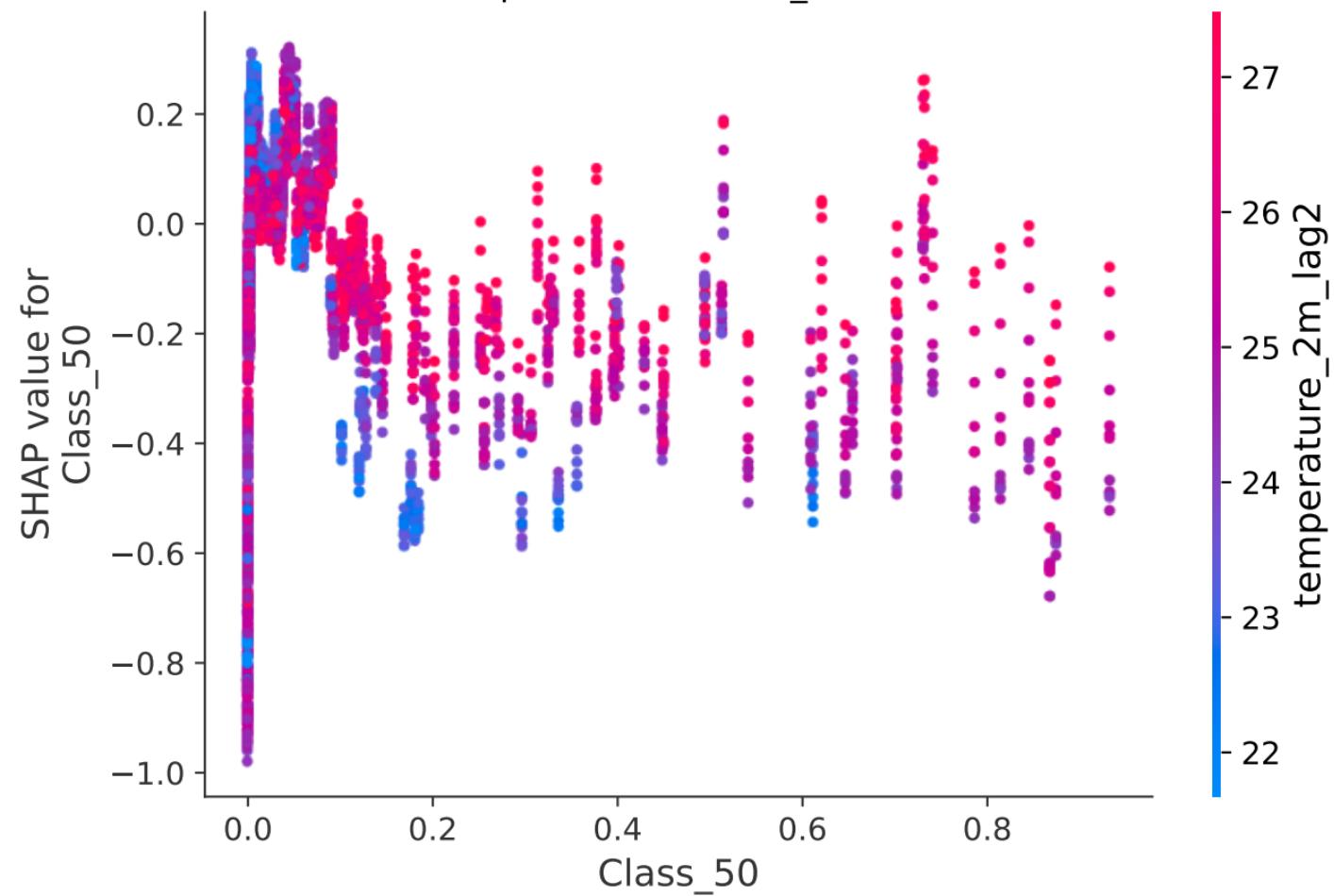
SHAP value for
Class_60



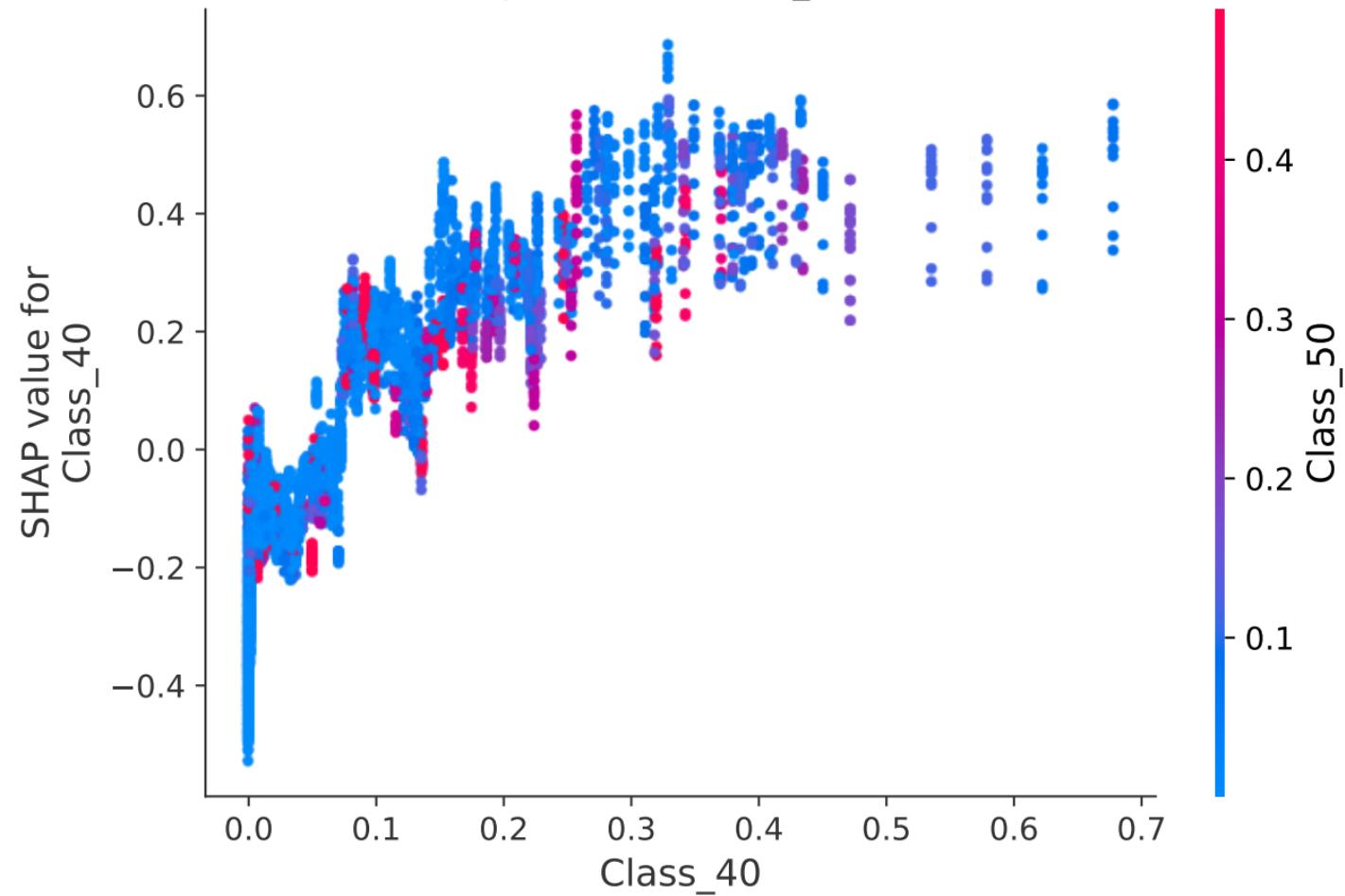
temperature_2m

27
26
25
24
23
22

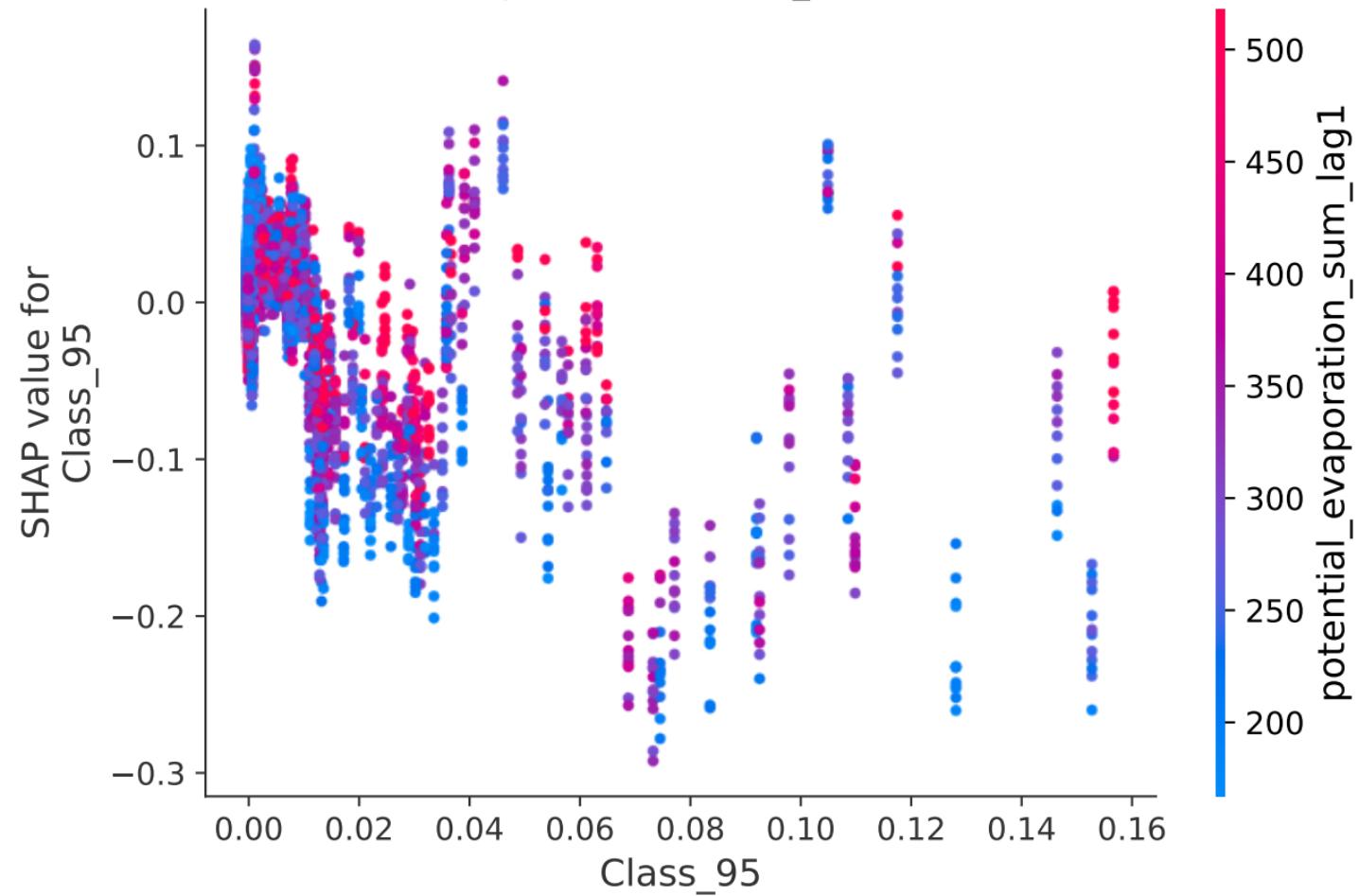
SHAP Dependence - Class_50 - Class 1



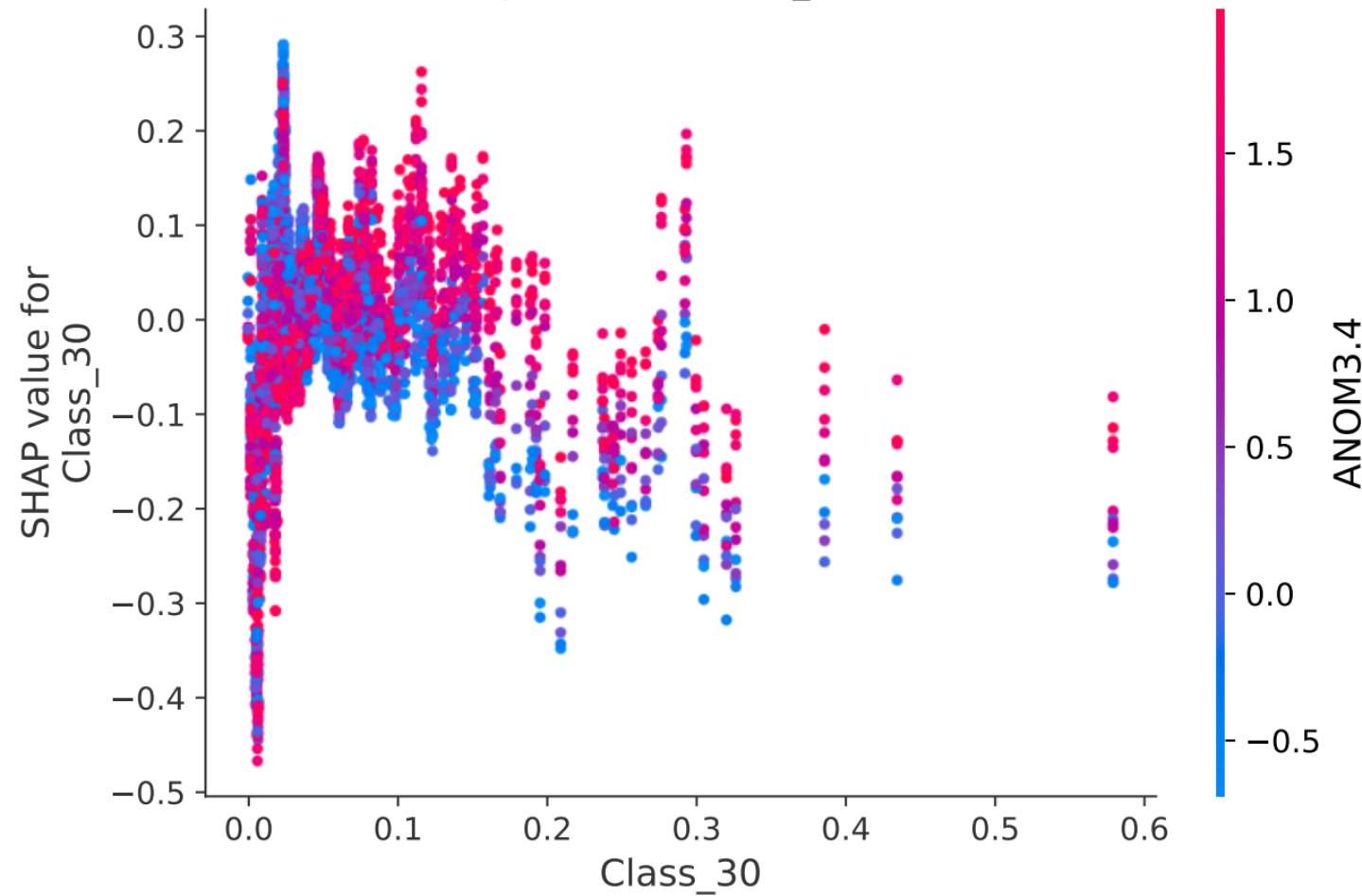
SHAP Dependence - Class_40 - Class 1



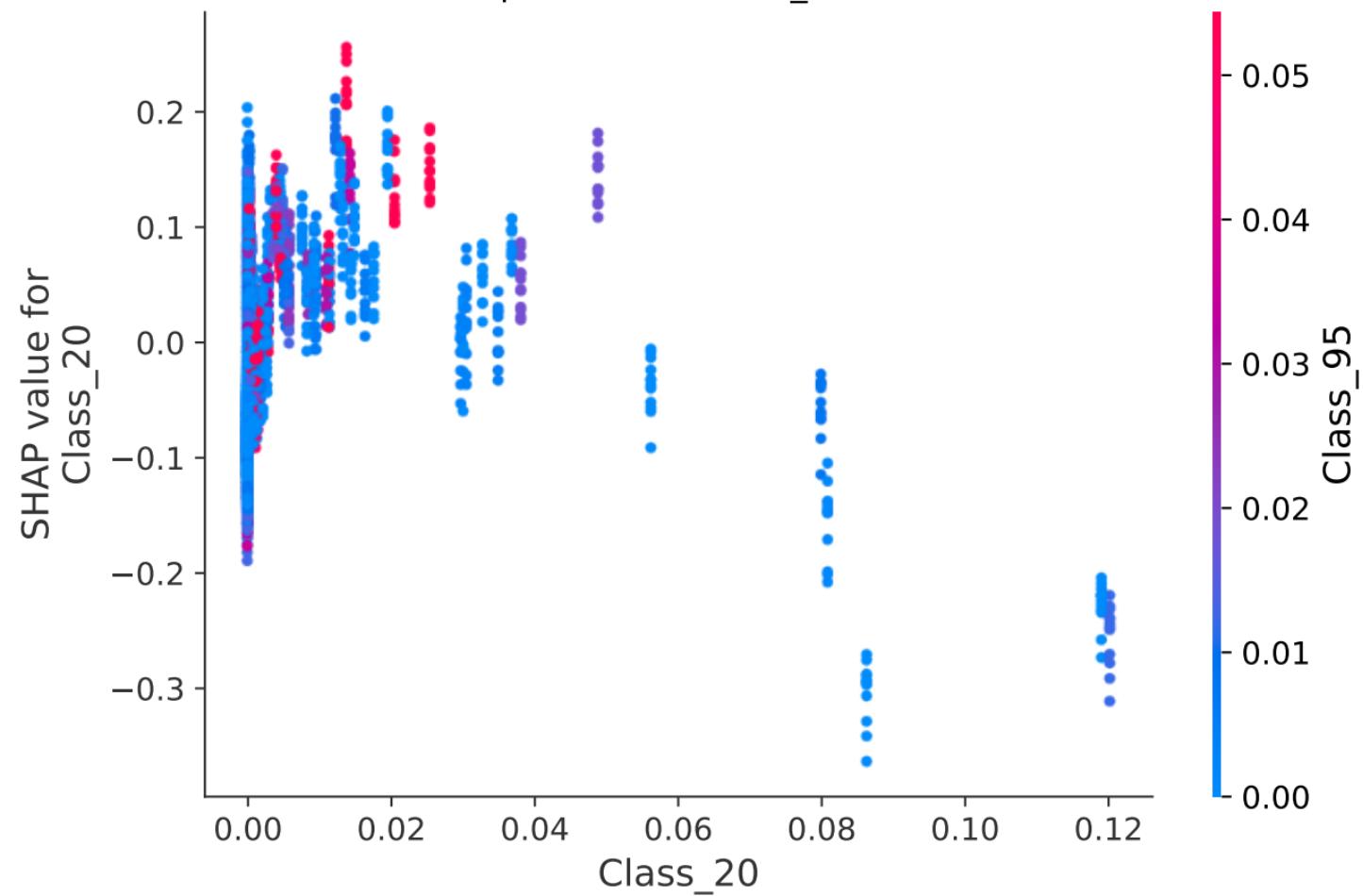
SHAP Dependence - Class_95 - Class 1



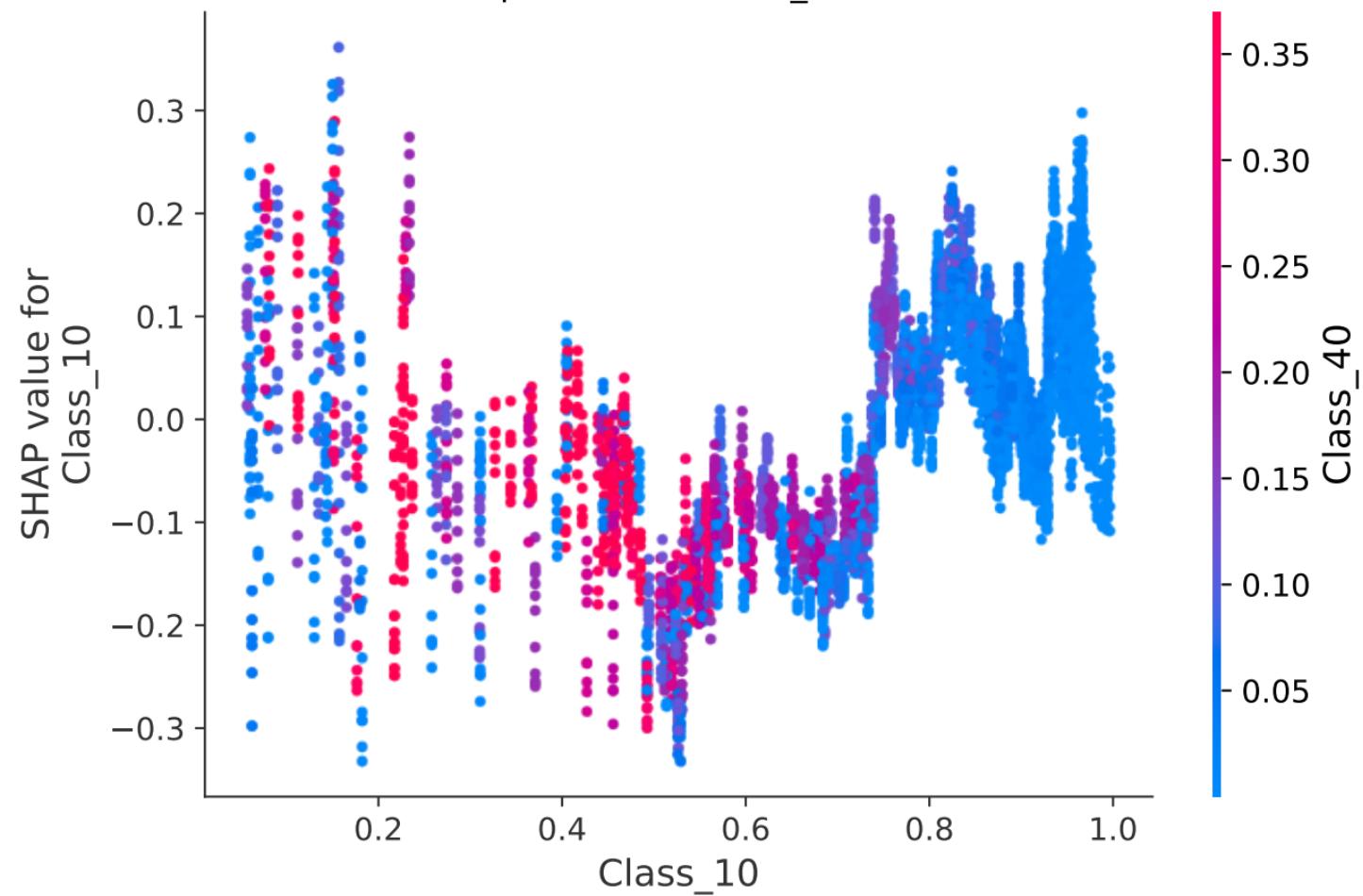
SHAP Dependence - Class_30 - Class 1



SHAP Dependence - Class_20 - Class 1

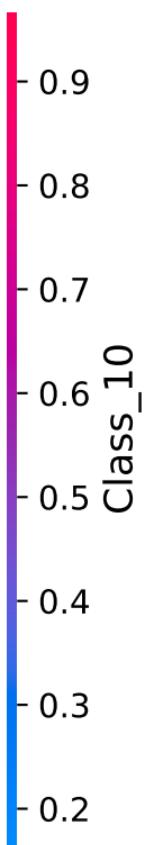
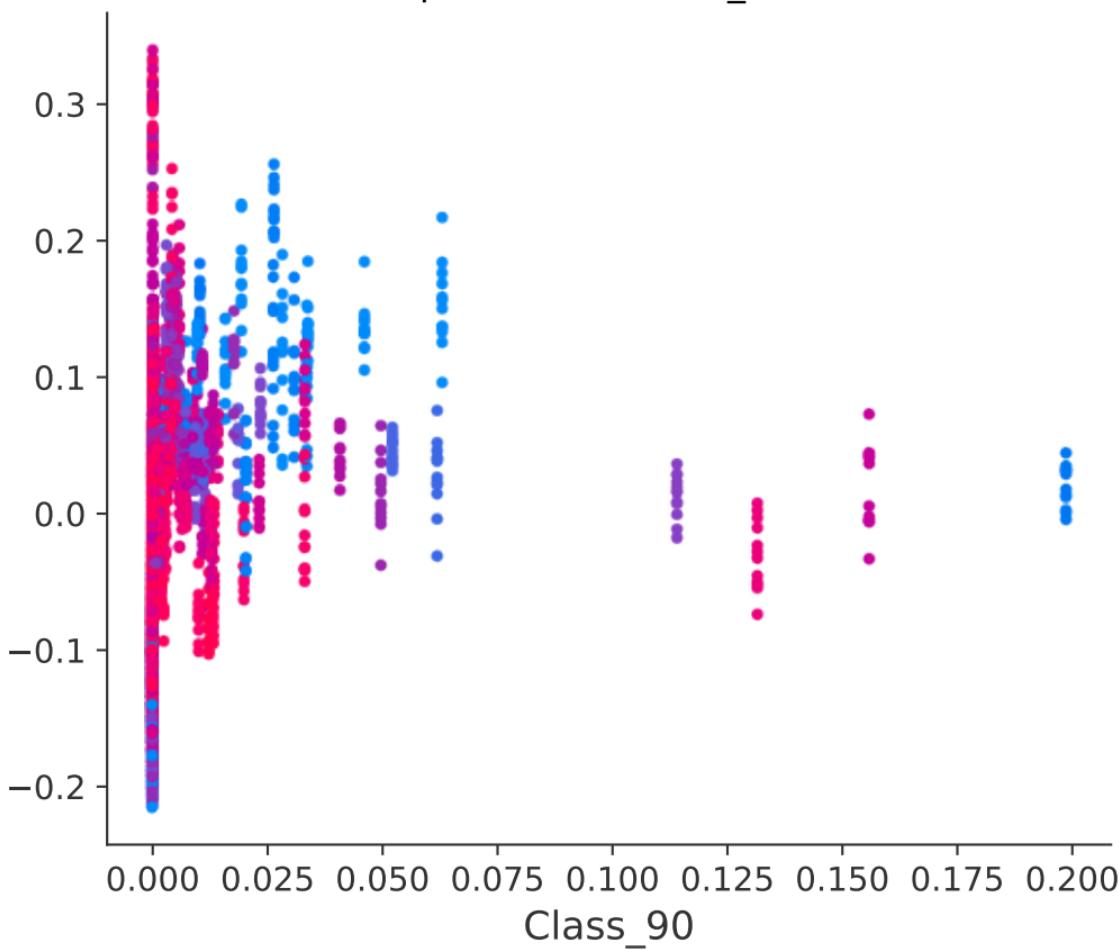


SHAP Dependence - Class_10 - Class 1

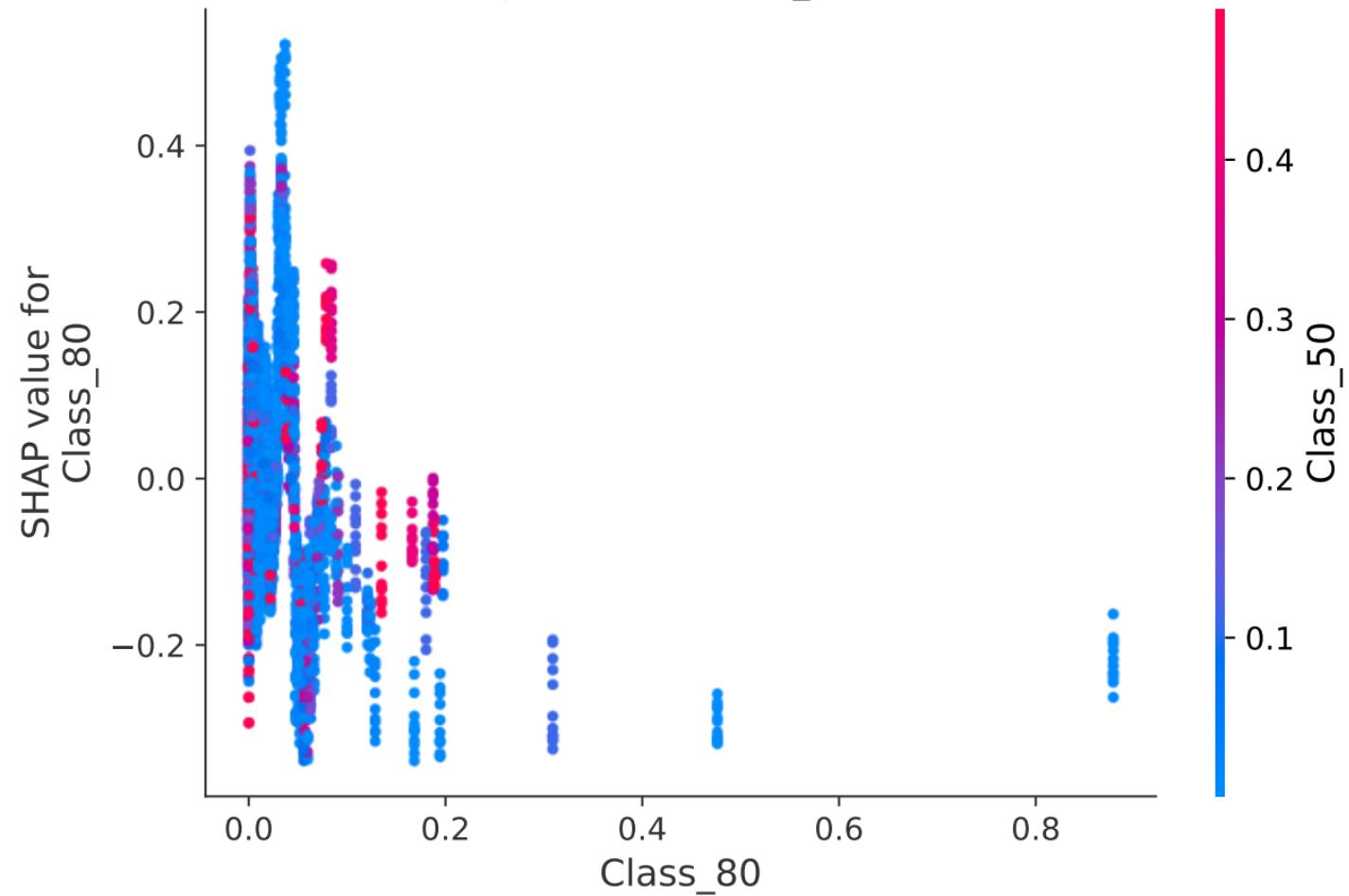


SHAP Dependence - Class_90 - Class 1

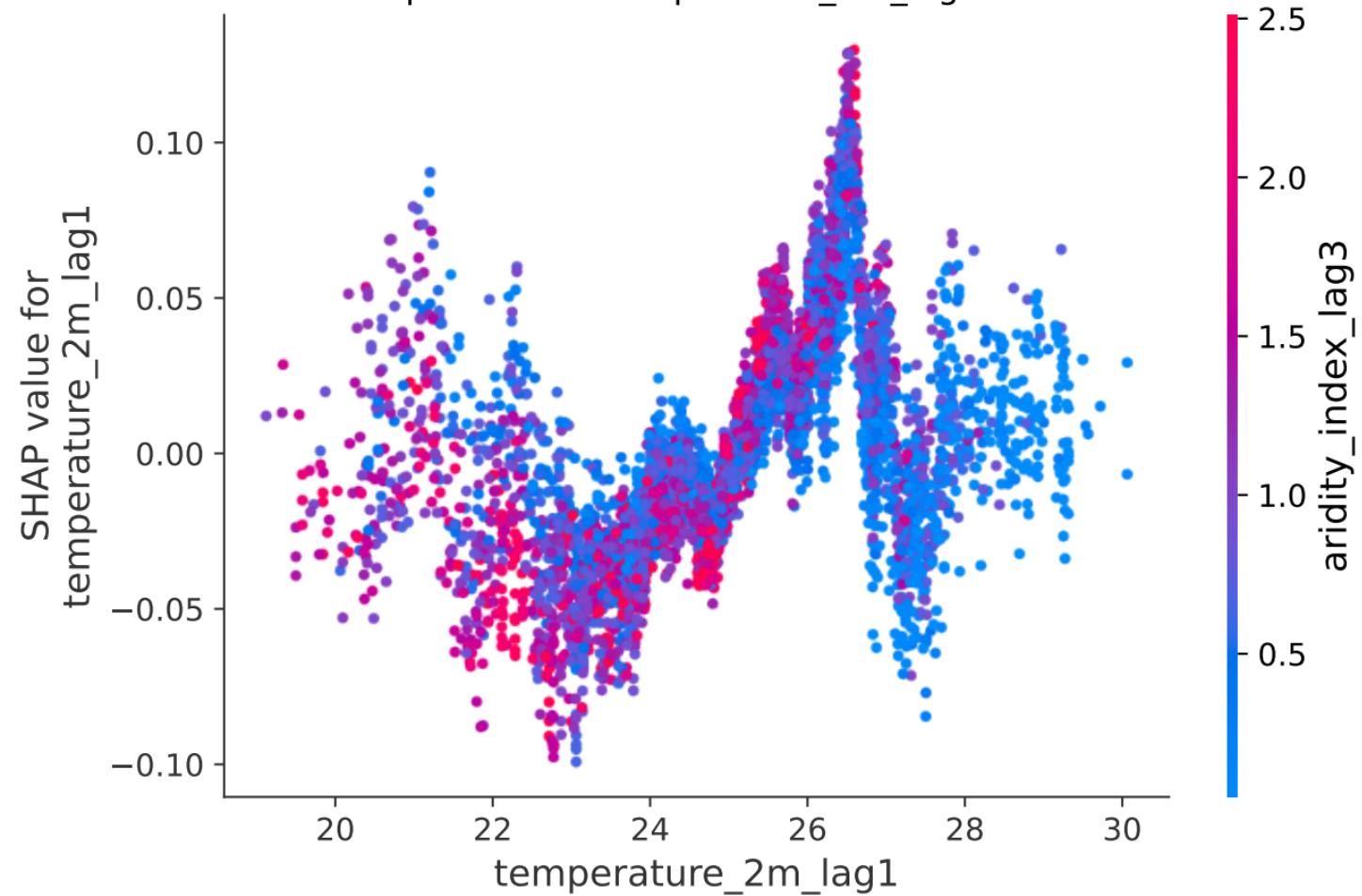
SHAP value for
Class_90



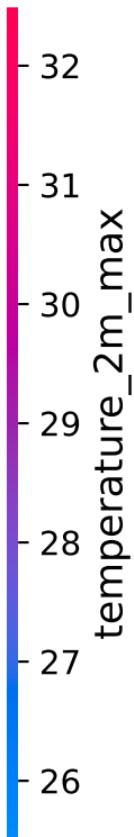
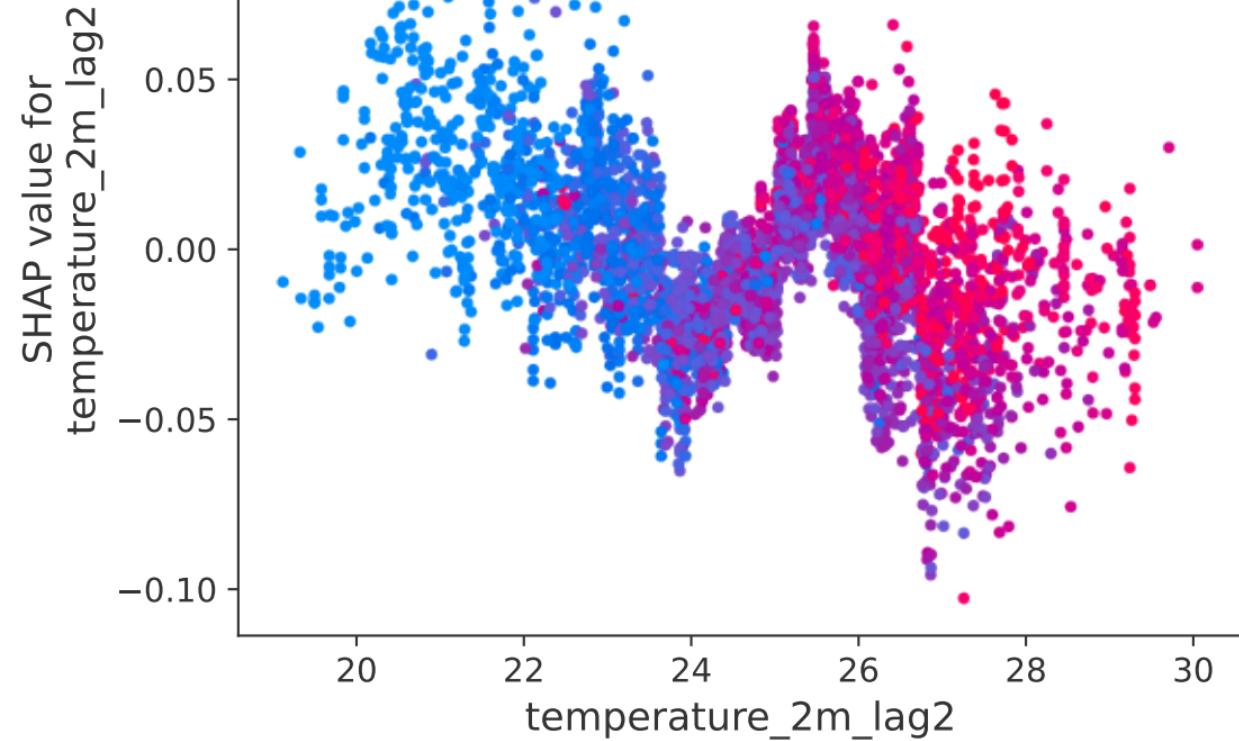
SHAP Dependence - Class_80 - Class 1



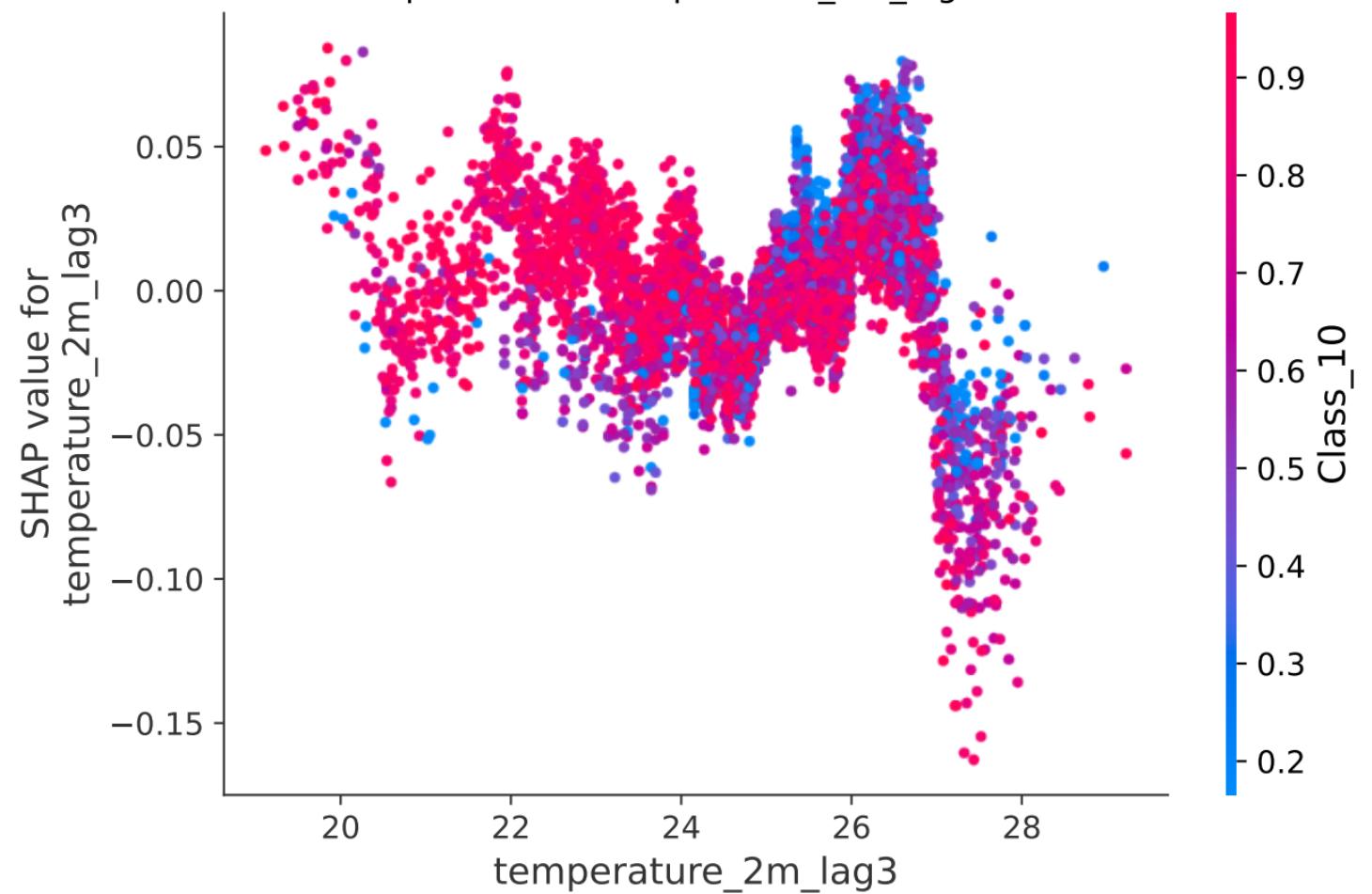
SHAP Dependence - temperature_2m_lag1 - Class 1



SHAP Dependence - temperature_2m_lag2 - Class 1

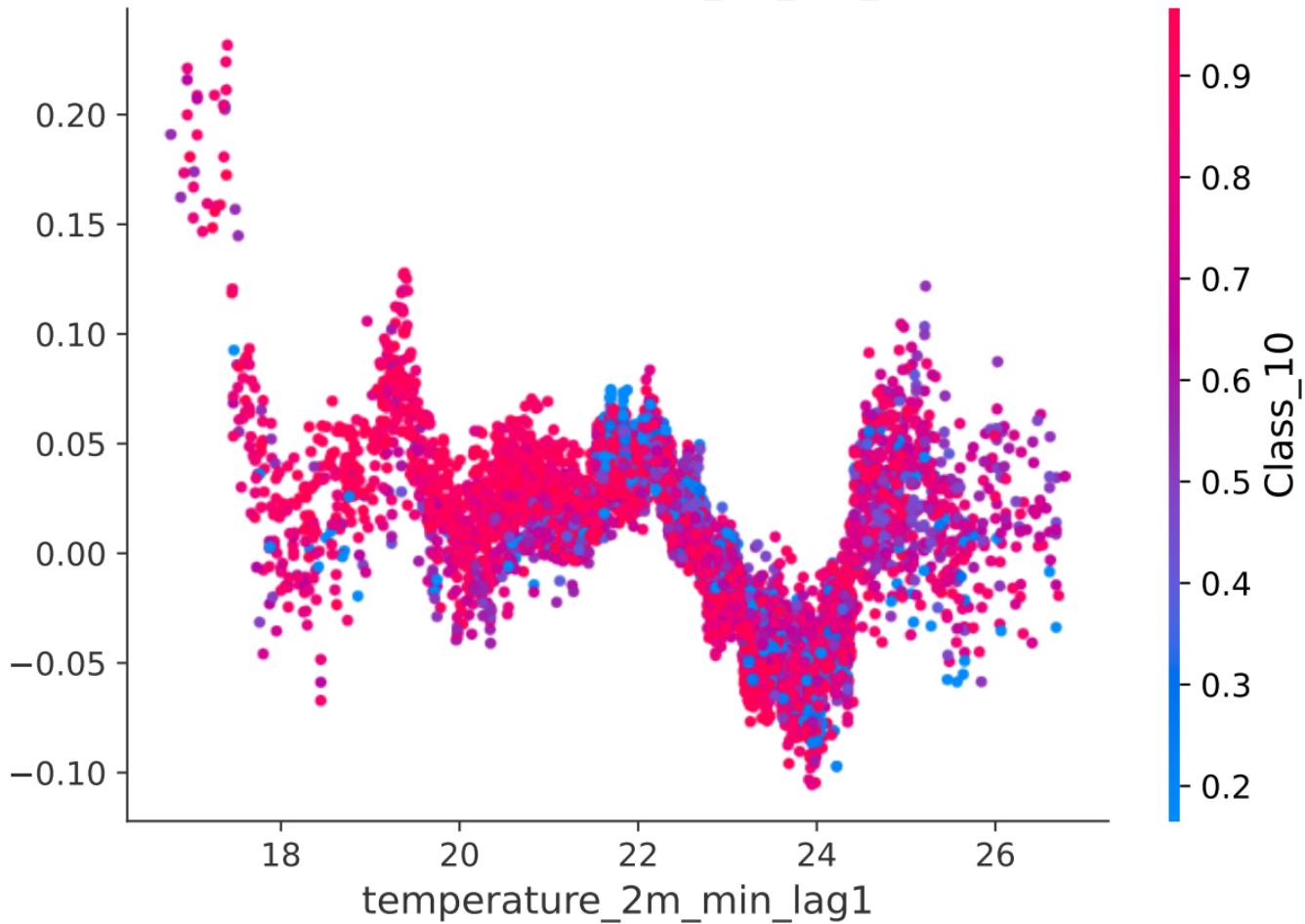


SHAP Dependence - temperature_2m_lag3 - Class 1

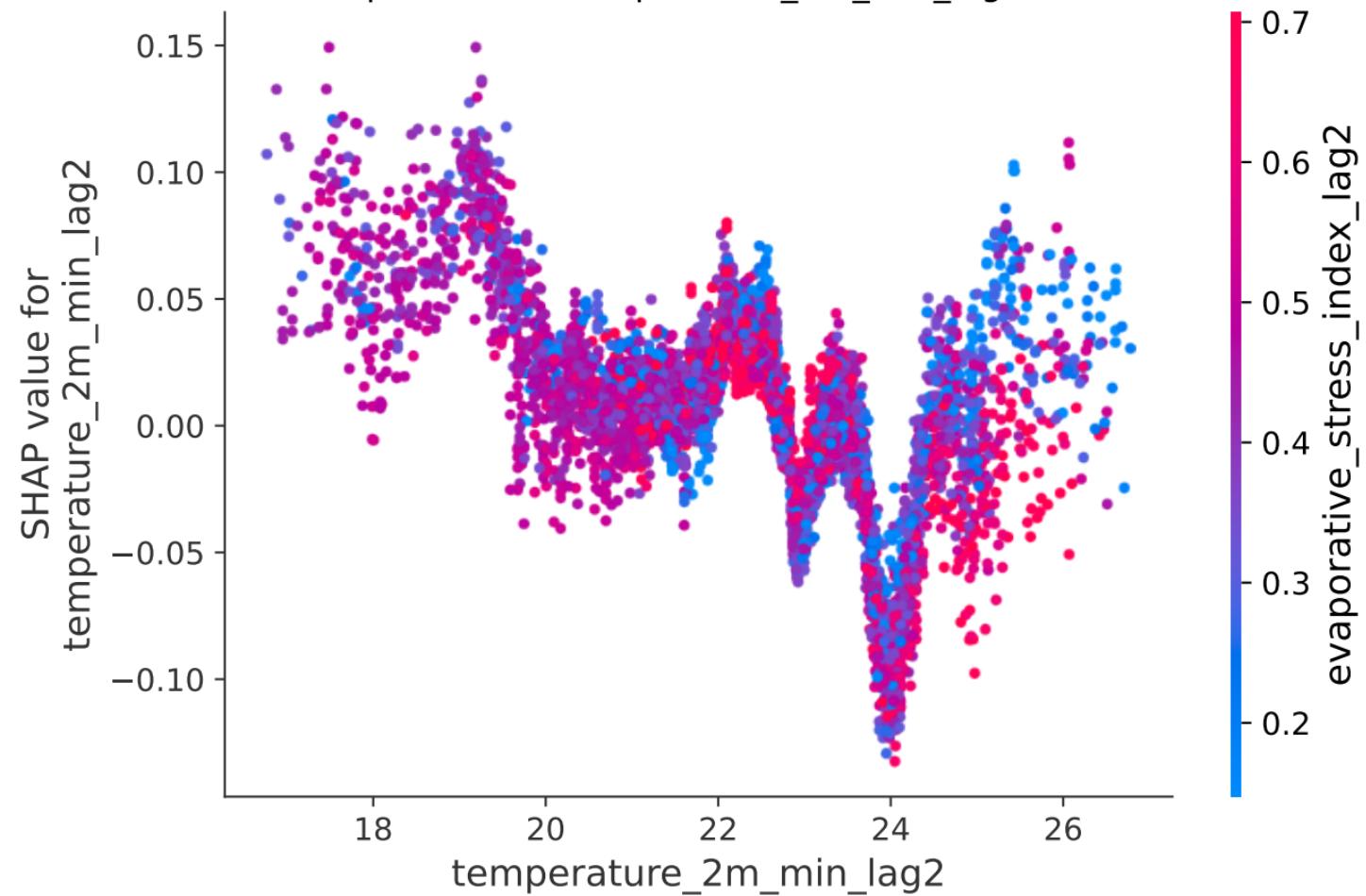


SHAP Dependence - temperature_2m_min_lag1 - Class 1

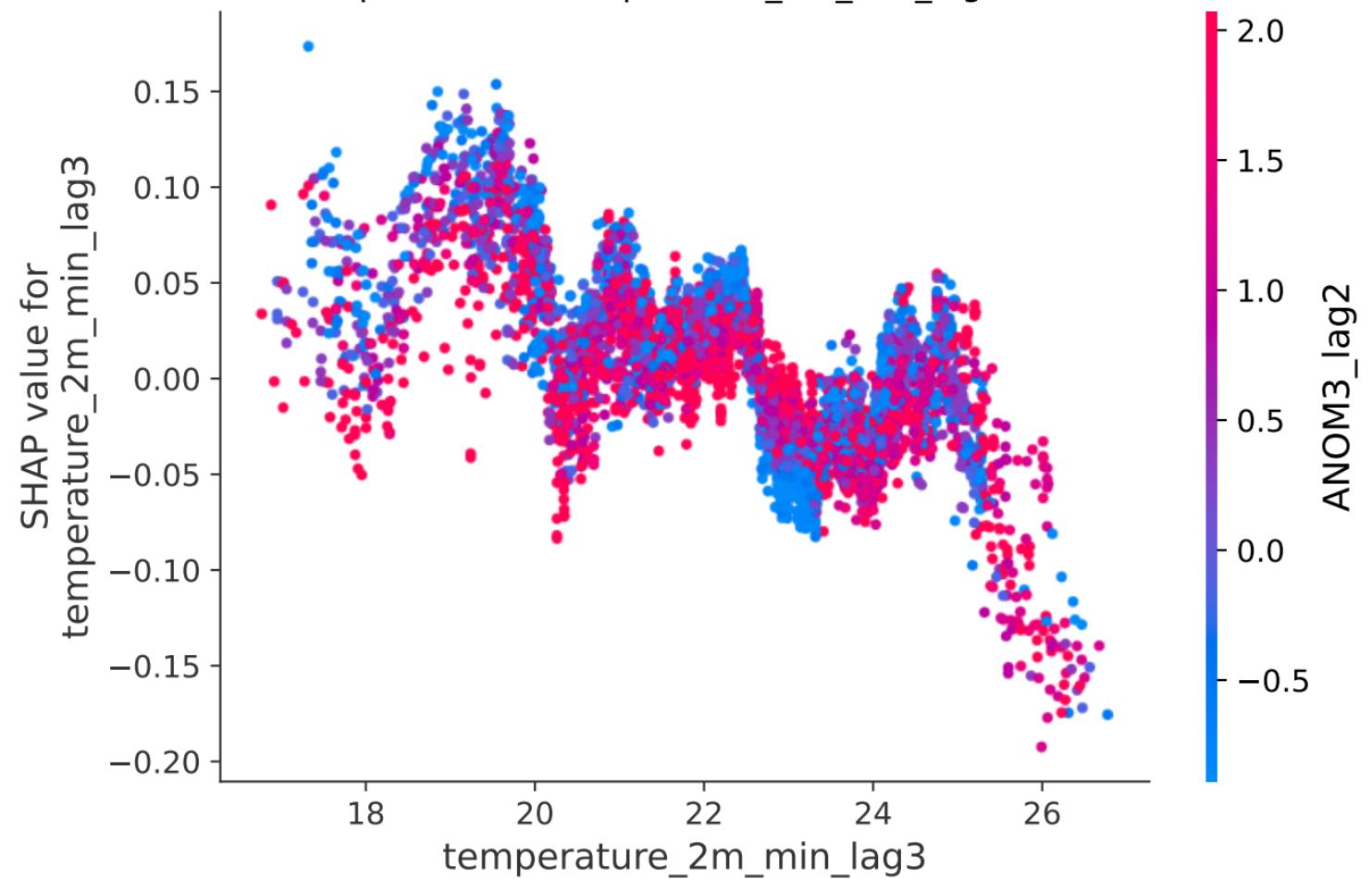
SHAP value for
temperature_2m_min_lag1



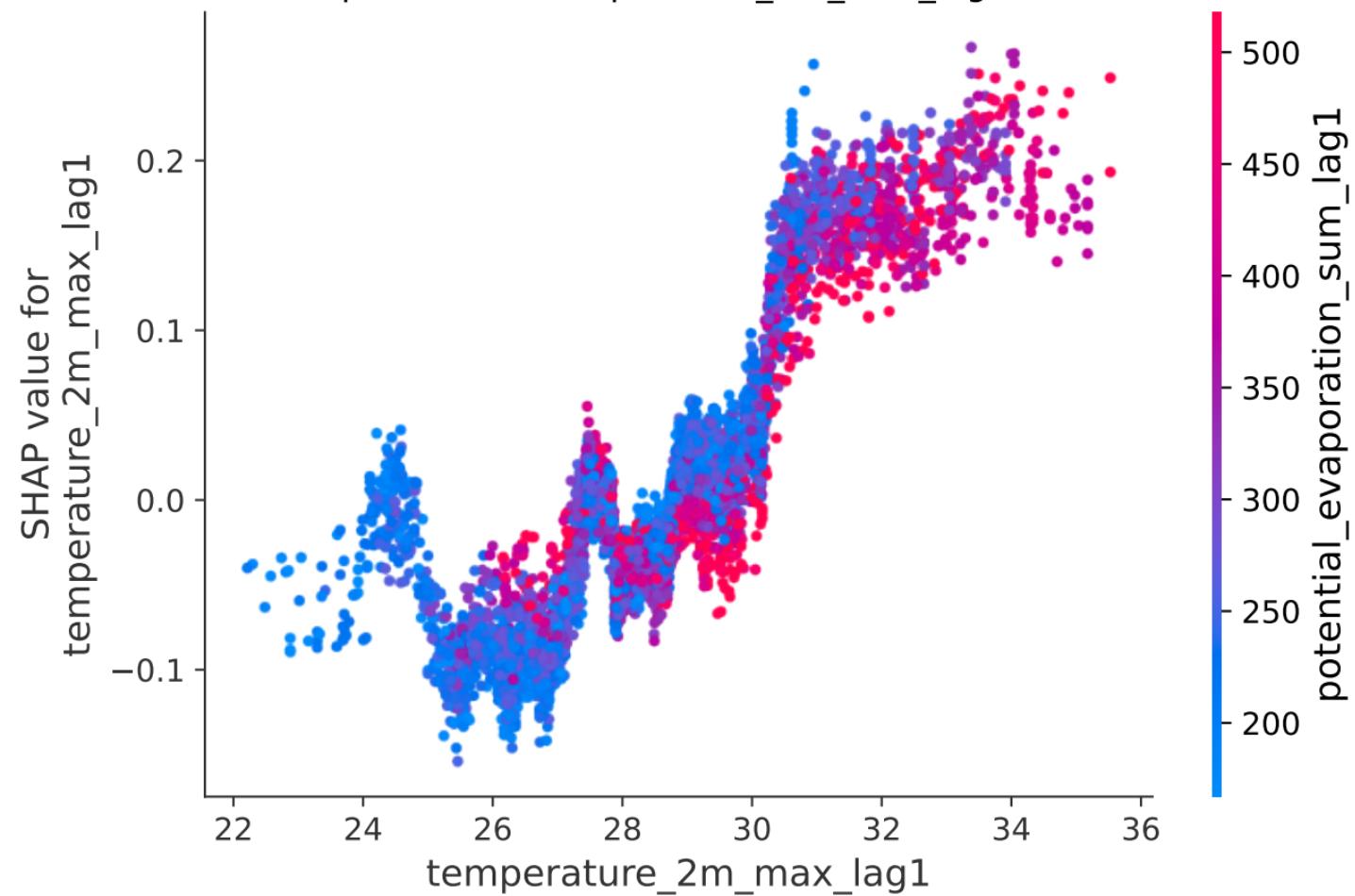
SHAP Dependence - temperature_2m_min_lag2 - Class 1



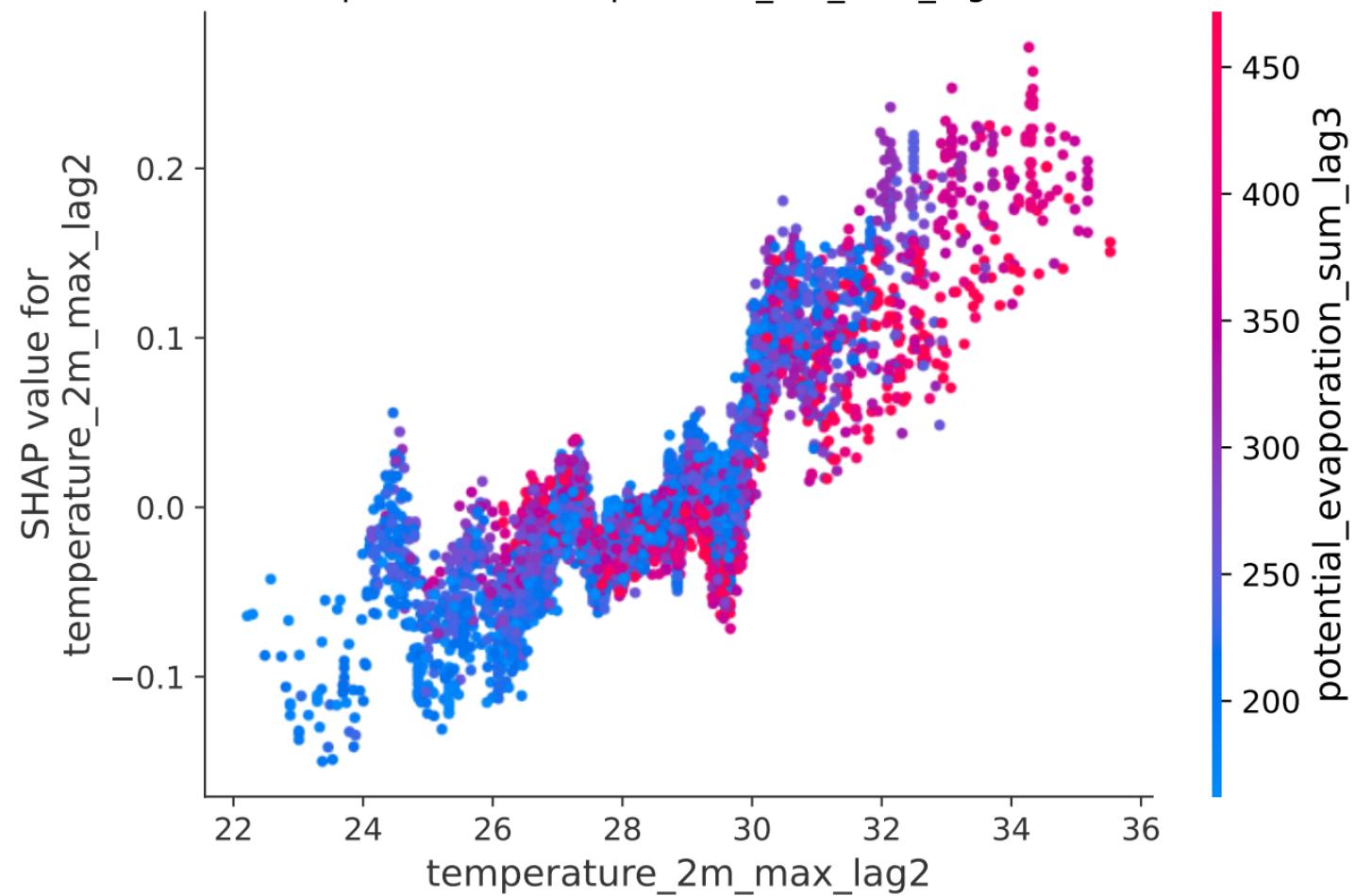
SHAP Dependence - temperature_2m_min_lag3 - Class 1



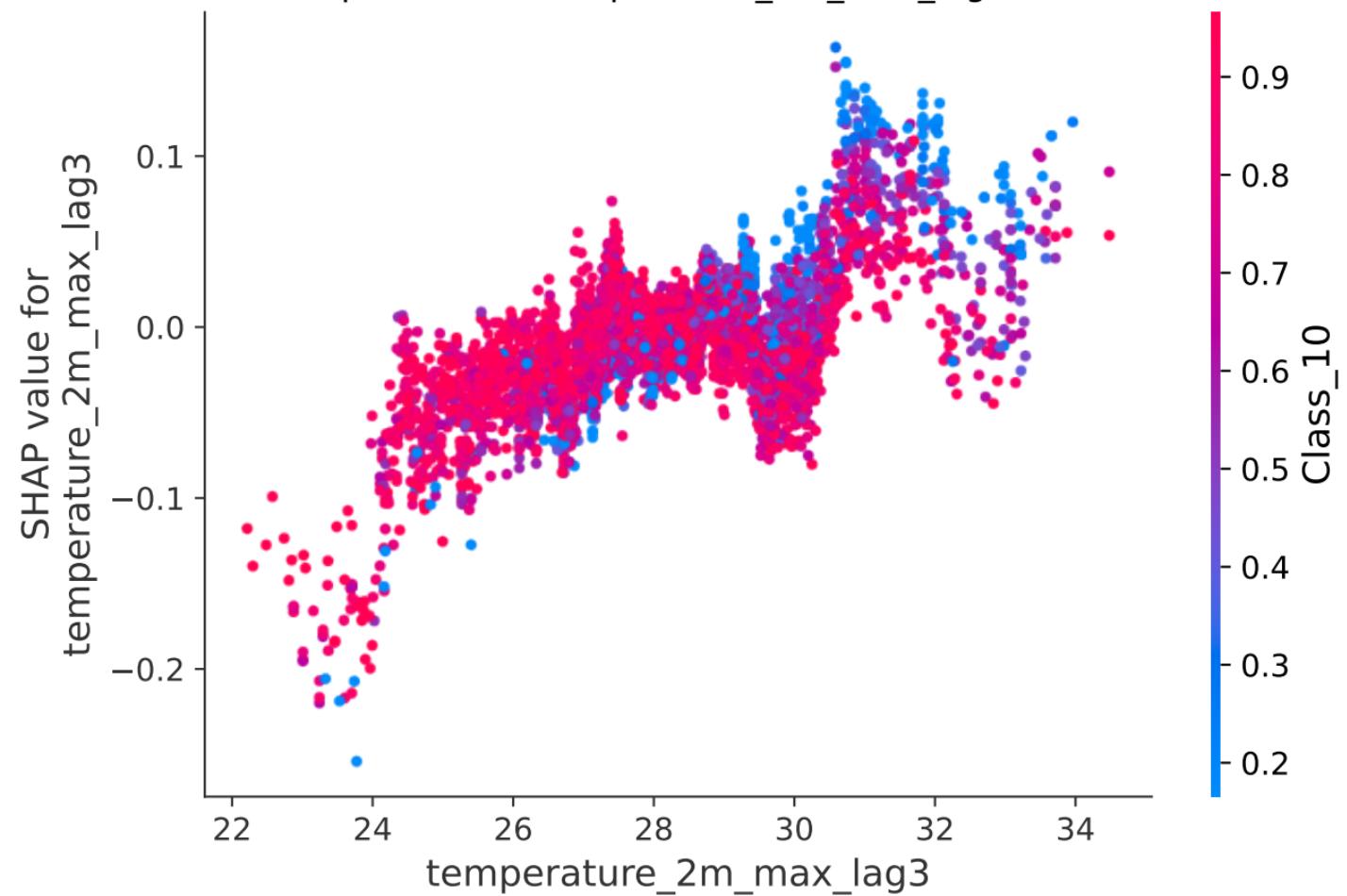
SHAP Dependence - temperature_2m_max_lag1 - Class 1



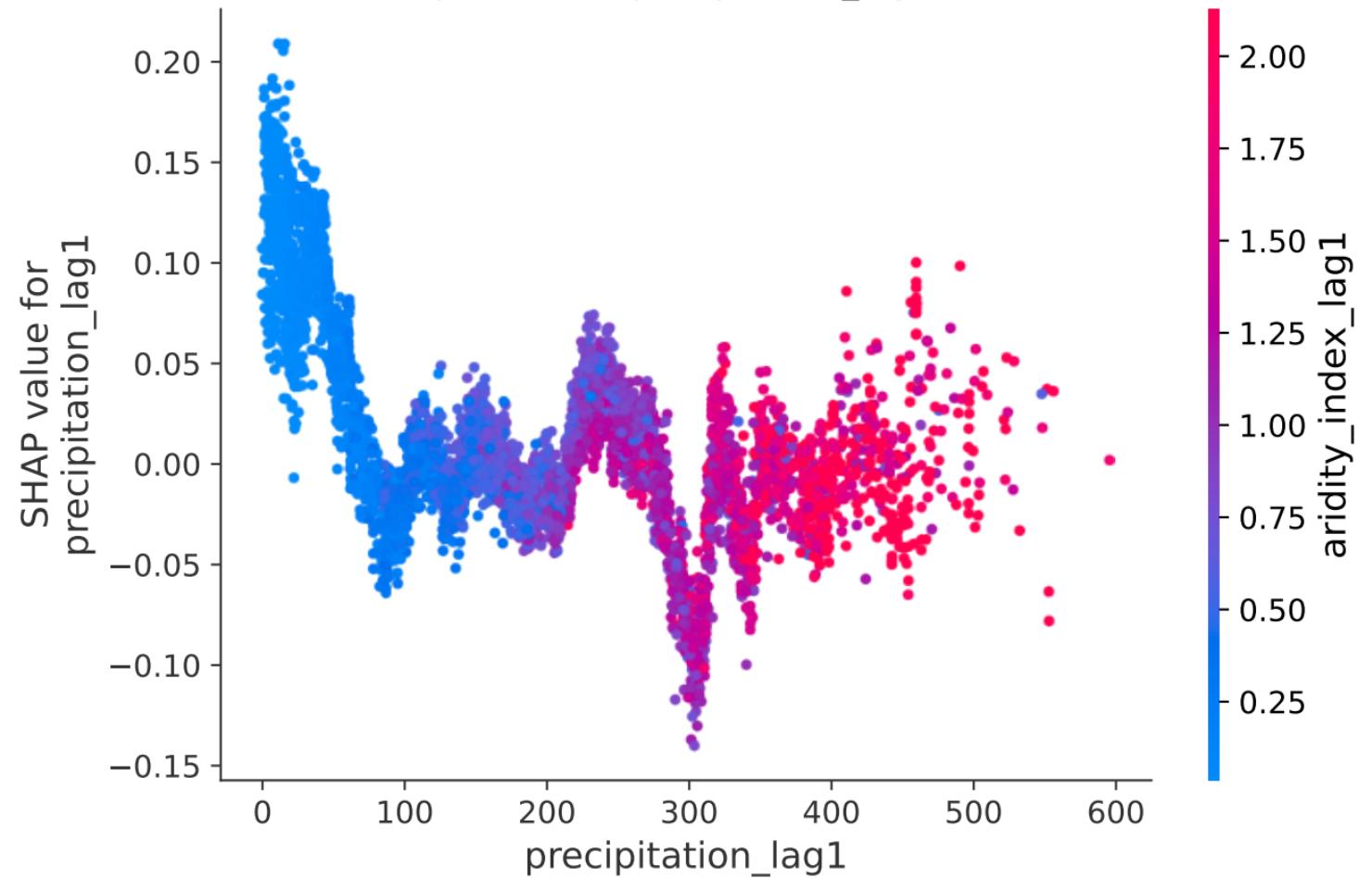
SHAP Dependence - temperature_2m_max_lag2 - Class 1



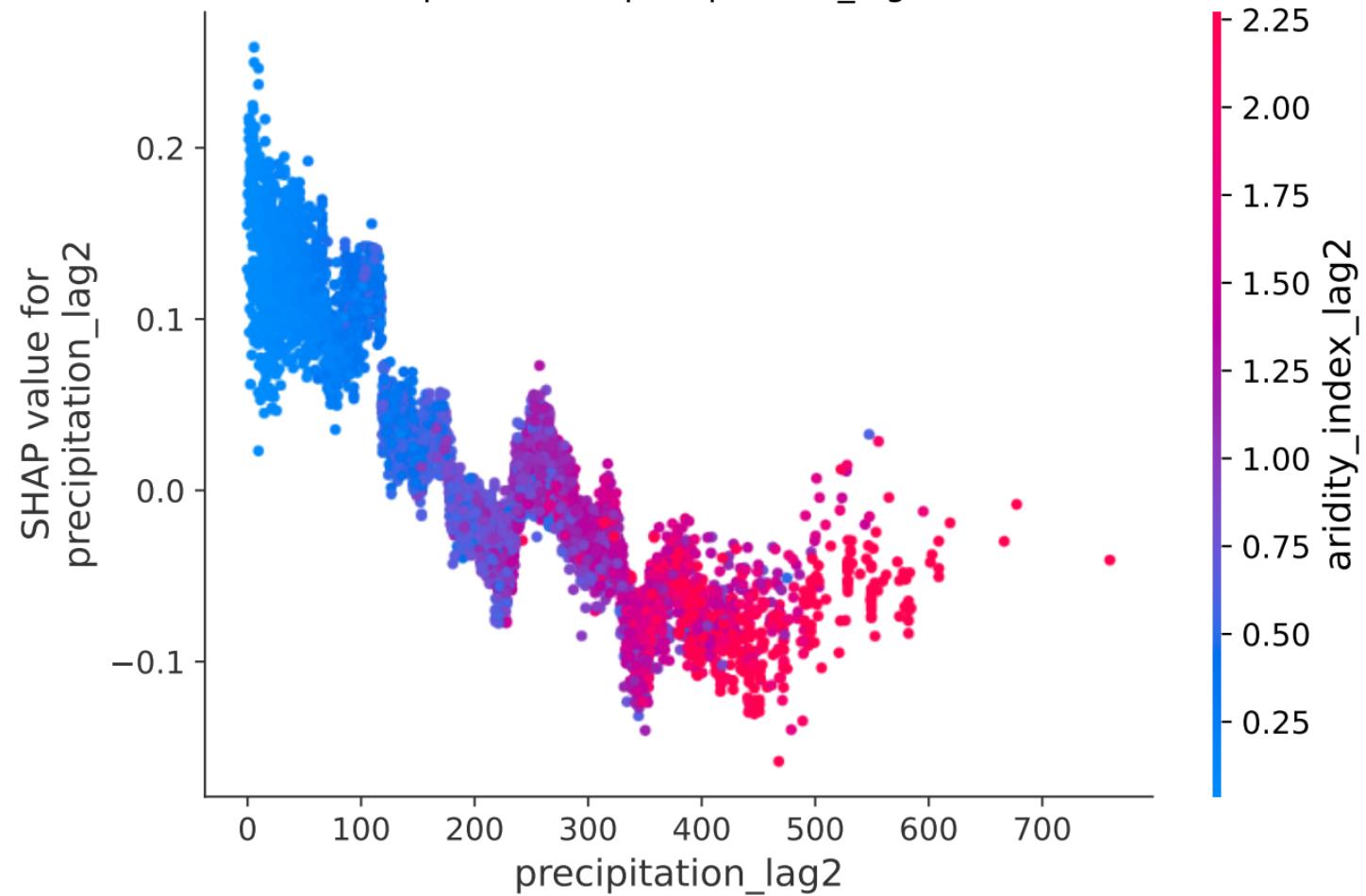
SHAP Dependence - temperature_2m_max_lag3 - Class 1



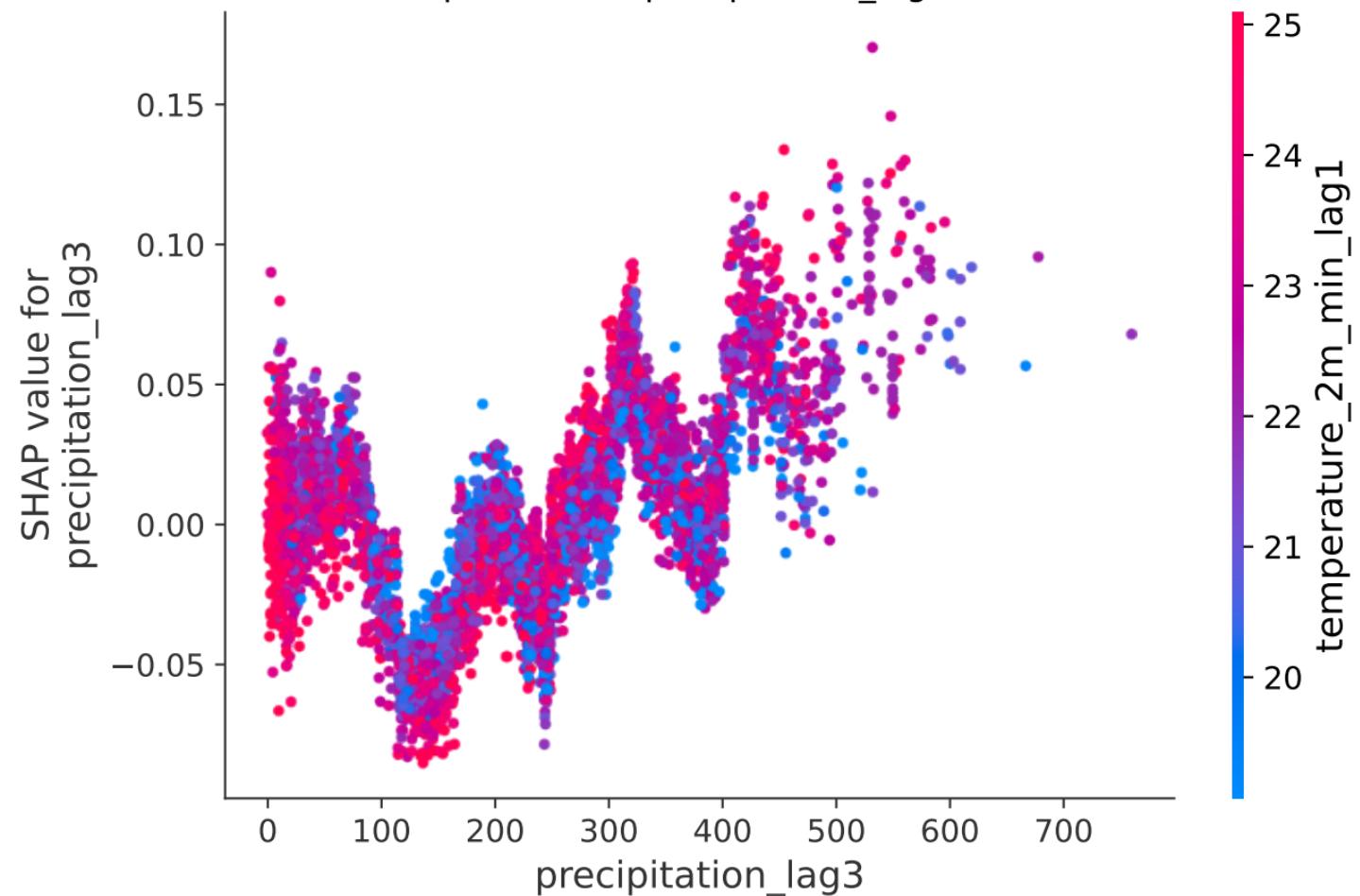
SHAP Dependence - precipitation_lag1 - Class 1



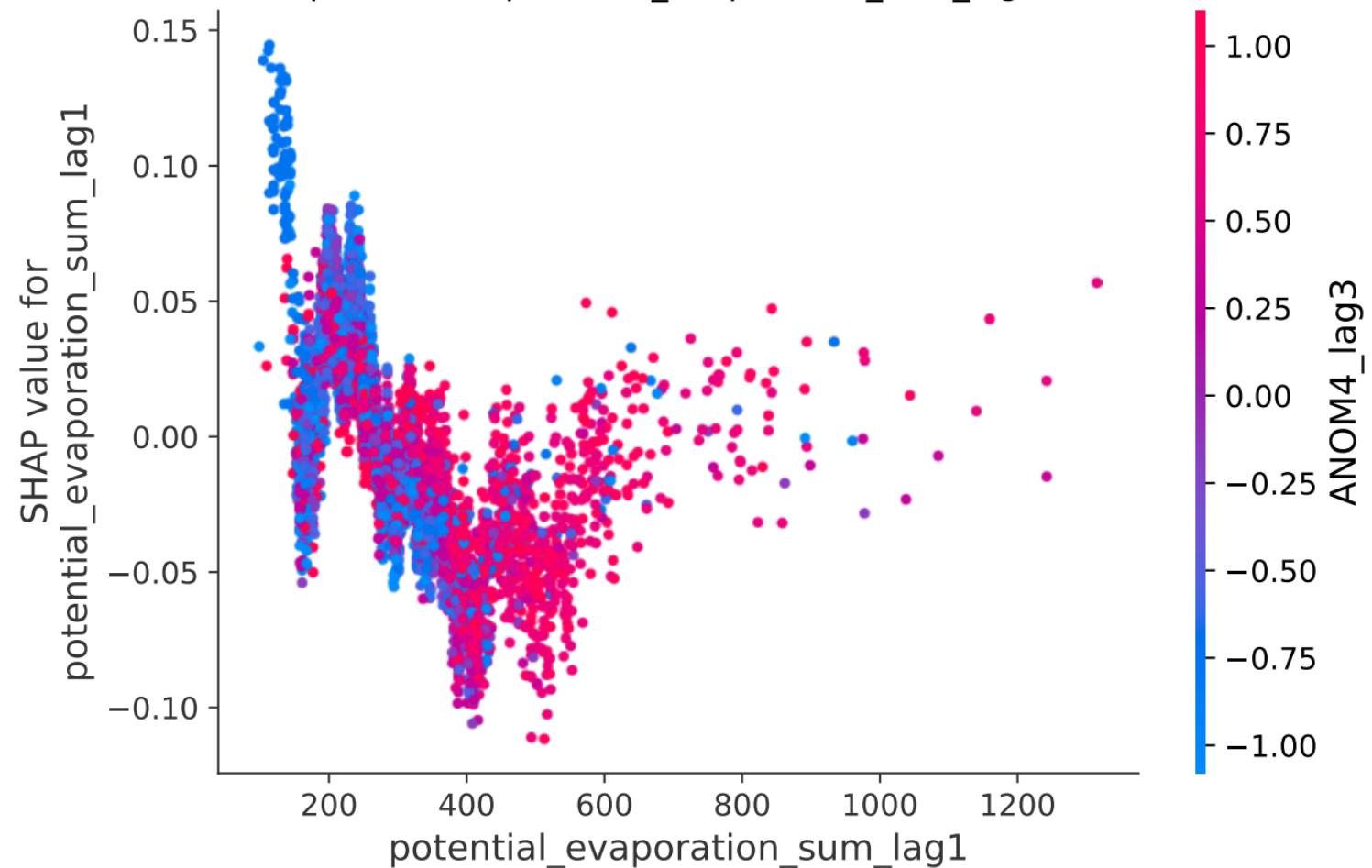
SHAP Dependence - precipitation_lag2 - Class 1



SHAP Dependence - precipitation_lag3 - Class 1

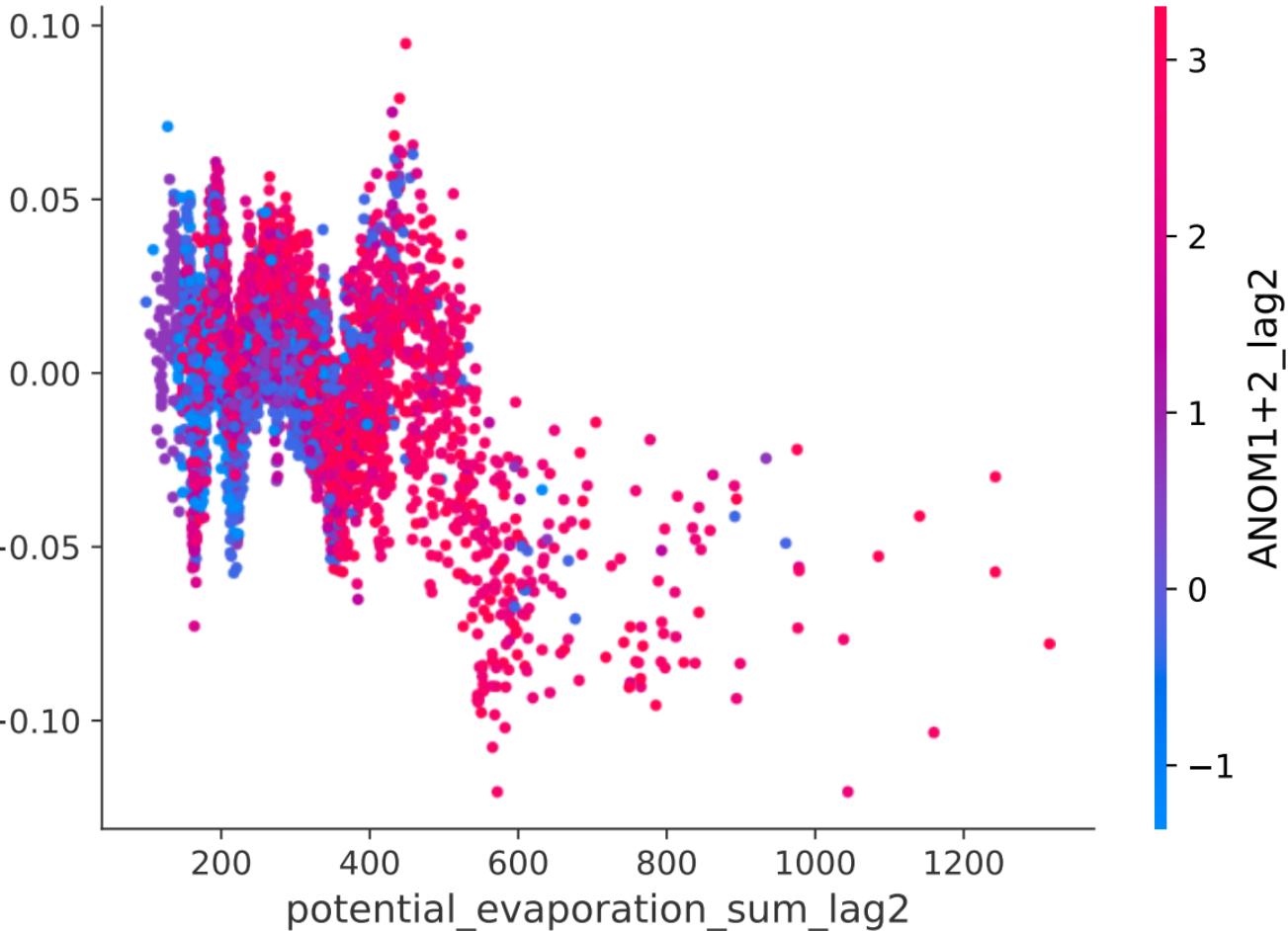


SHAP Dependence - potential_evaporation_sum_lag1 - Class 1

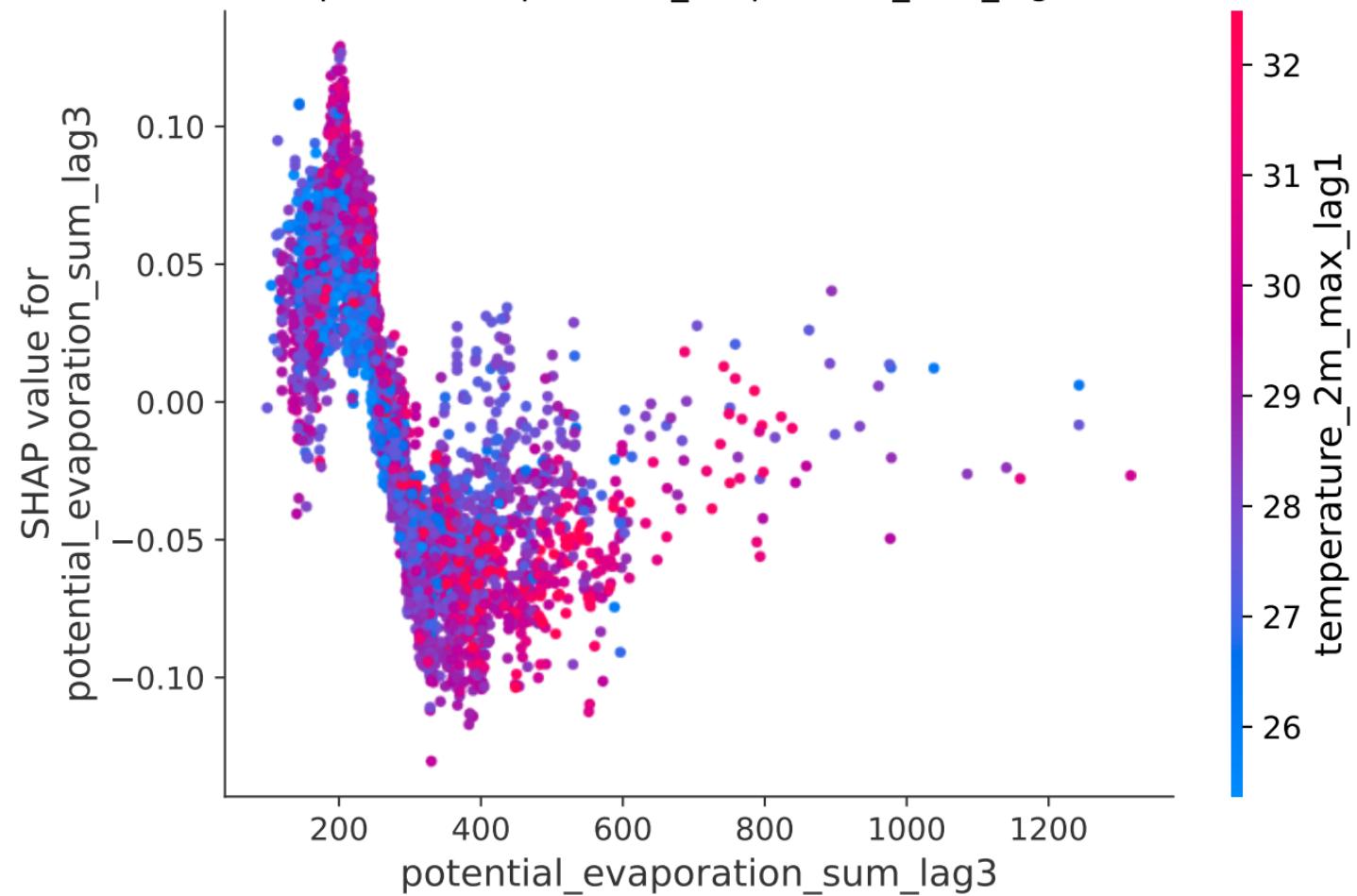


SHAP Dependence - potential_evaporation_sum_lag2 - Class 1

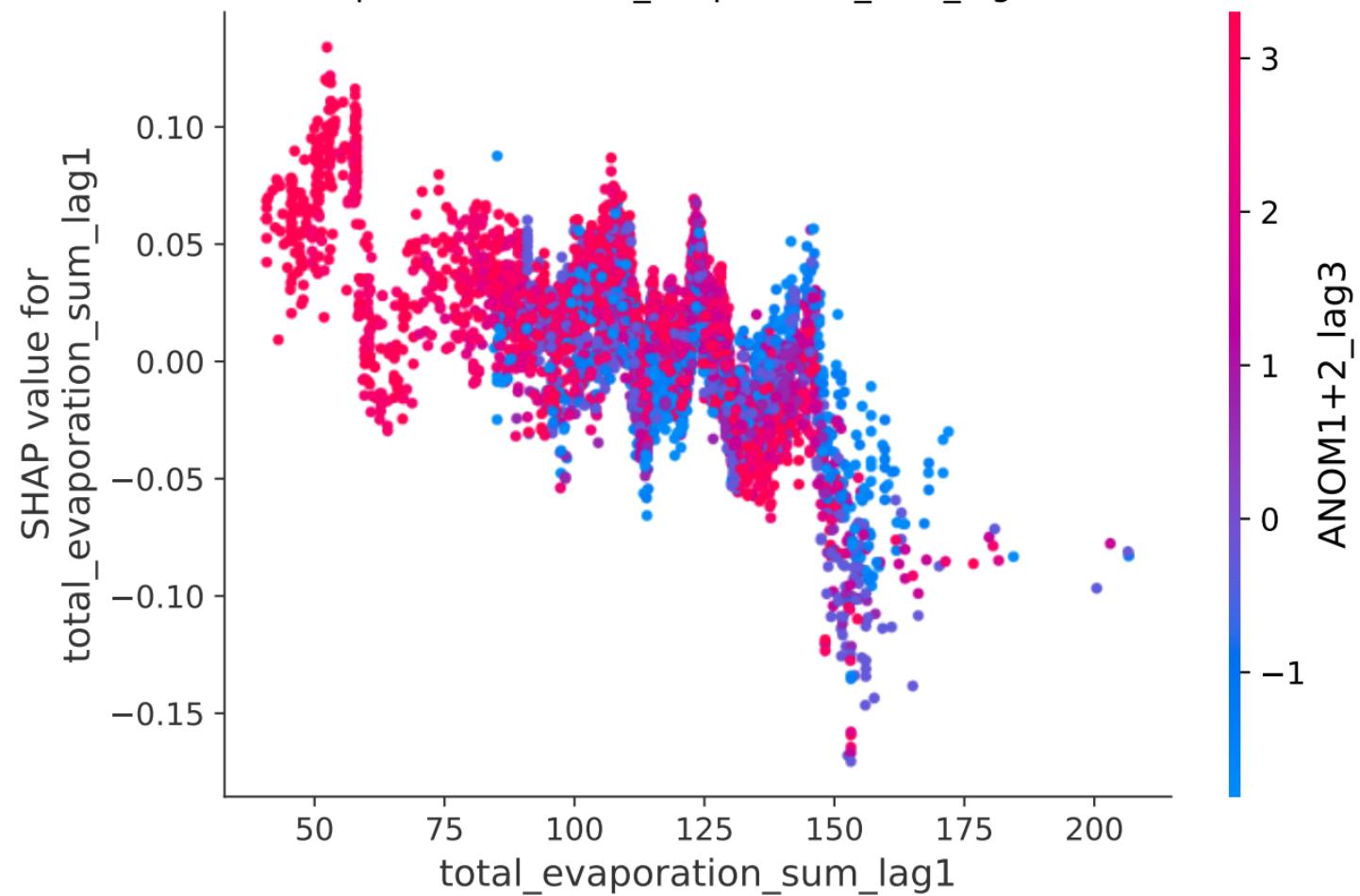
SHAP value for
potential_evaporation_sum_lag2



SHAP Dependence - potential_evaporation_sum_lag3 - Class 1

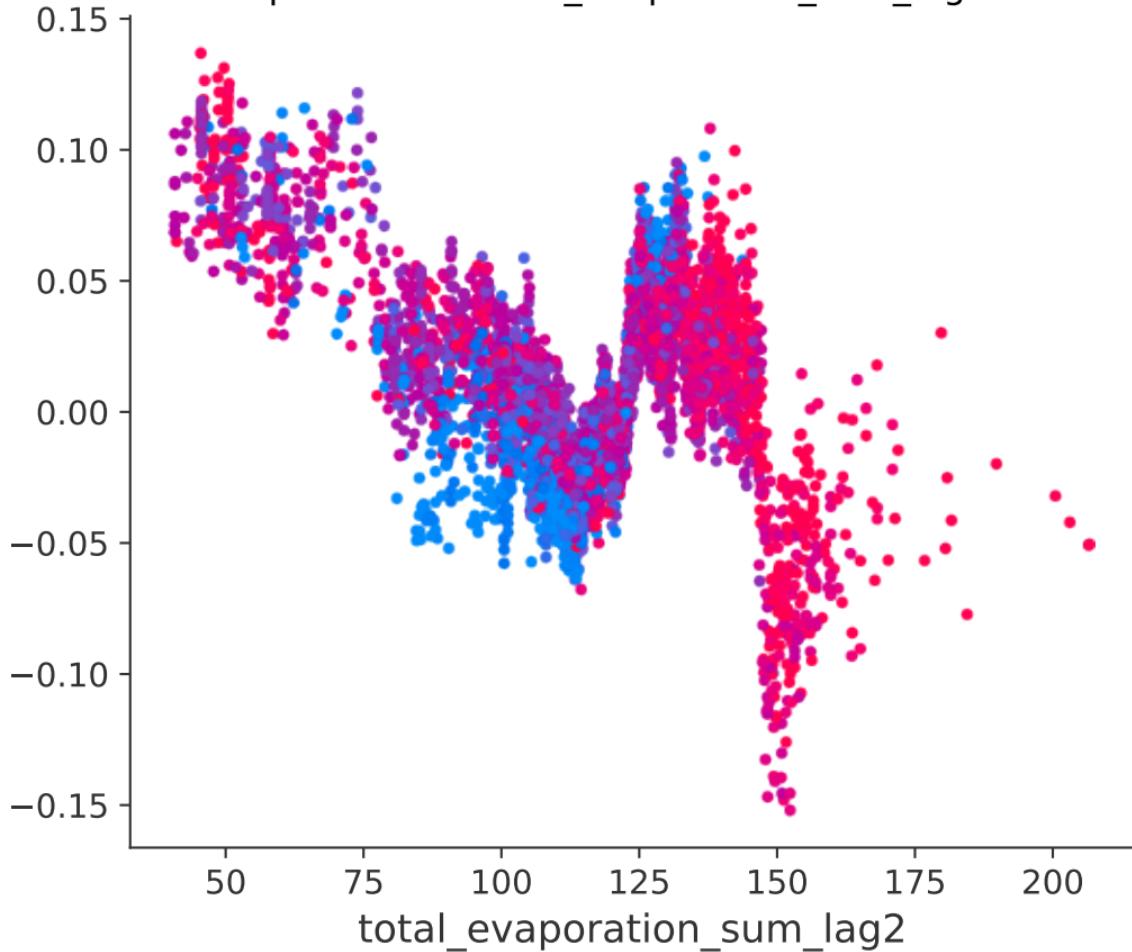


SHAP Dependence - total_evaporation_sum_lag1 - Class 1



SHAP Dependence - total_evaporation_sum_lag2 - Class 1

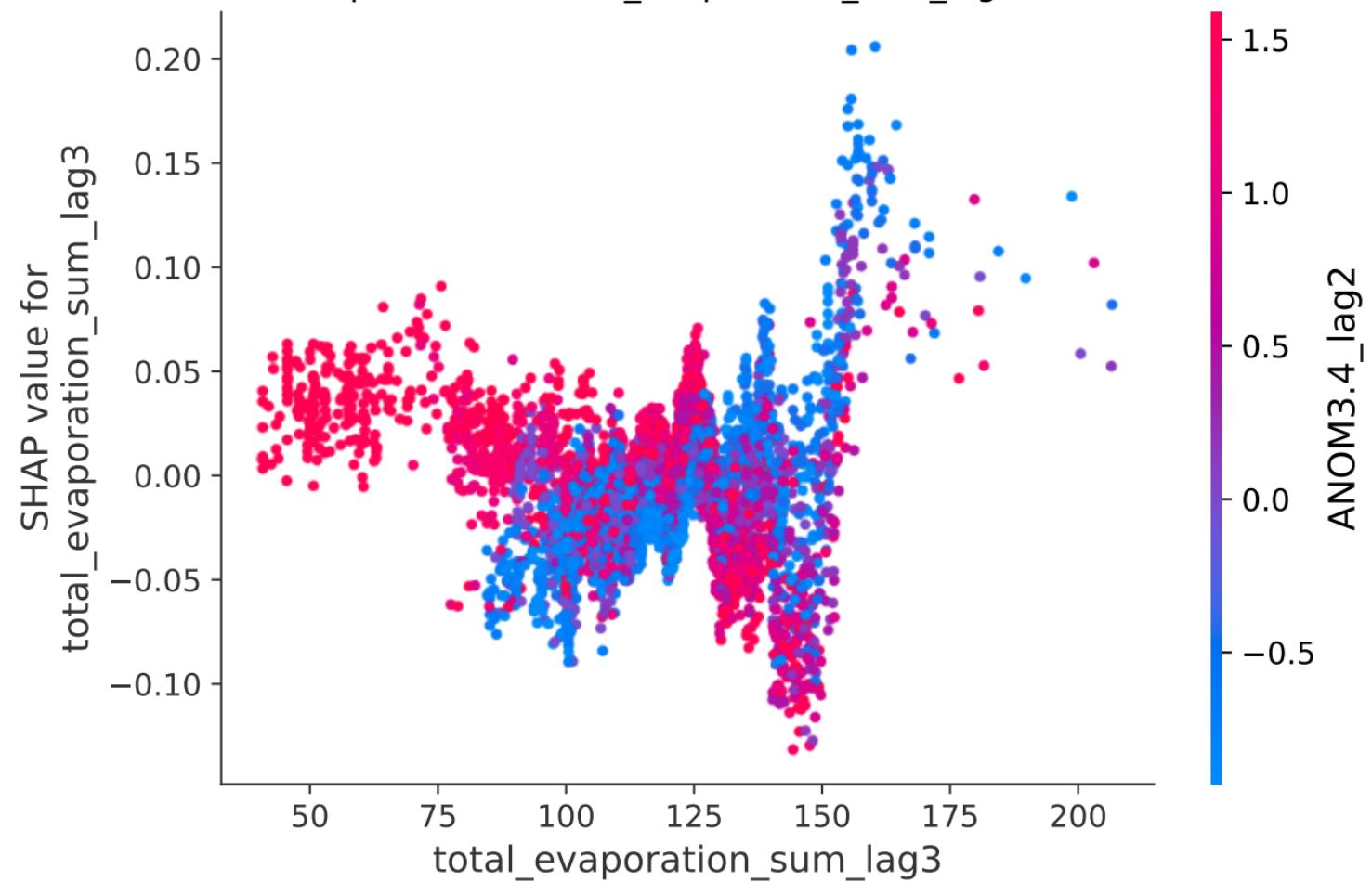
SHAP value for
total_evaporation_sum_lag2



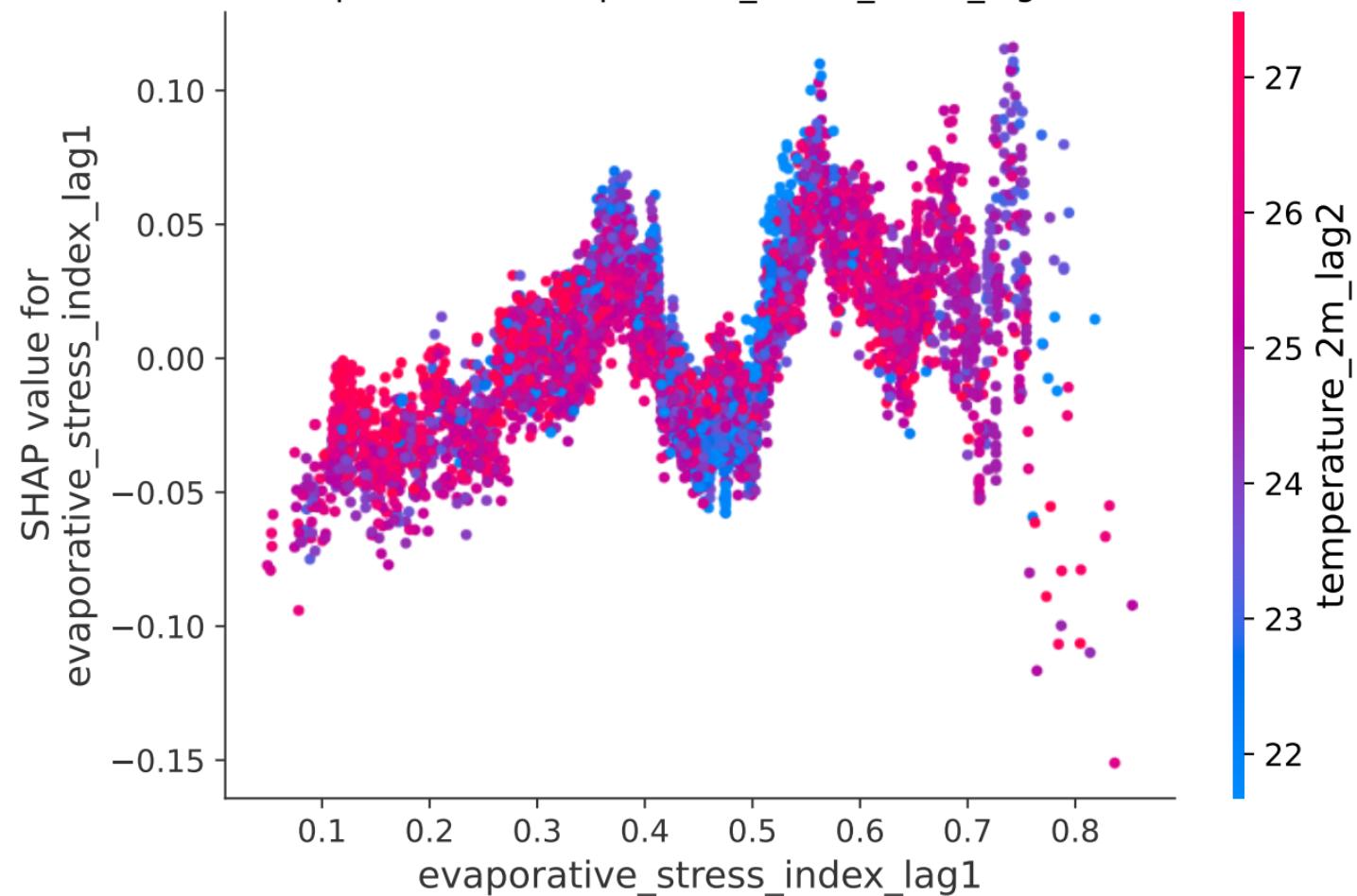
temperature_2m_min_lag2

24
23
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SHAP Dependence - total_evaporation_sum_lag3 - Class 1

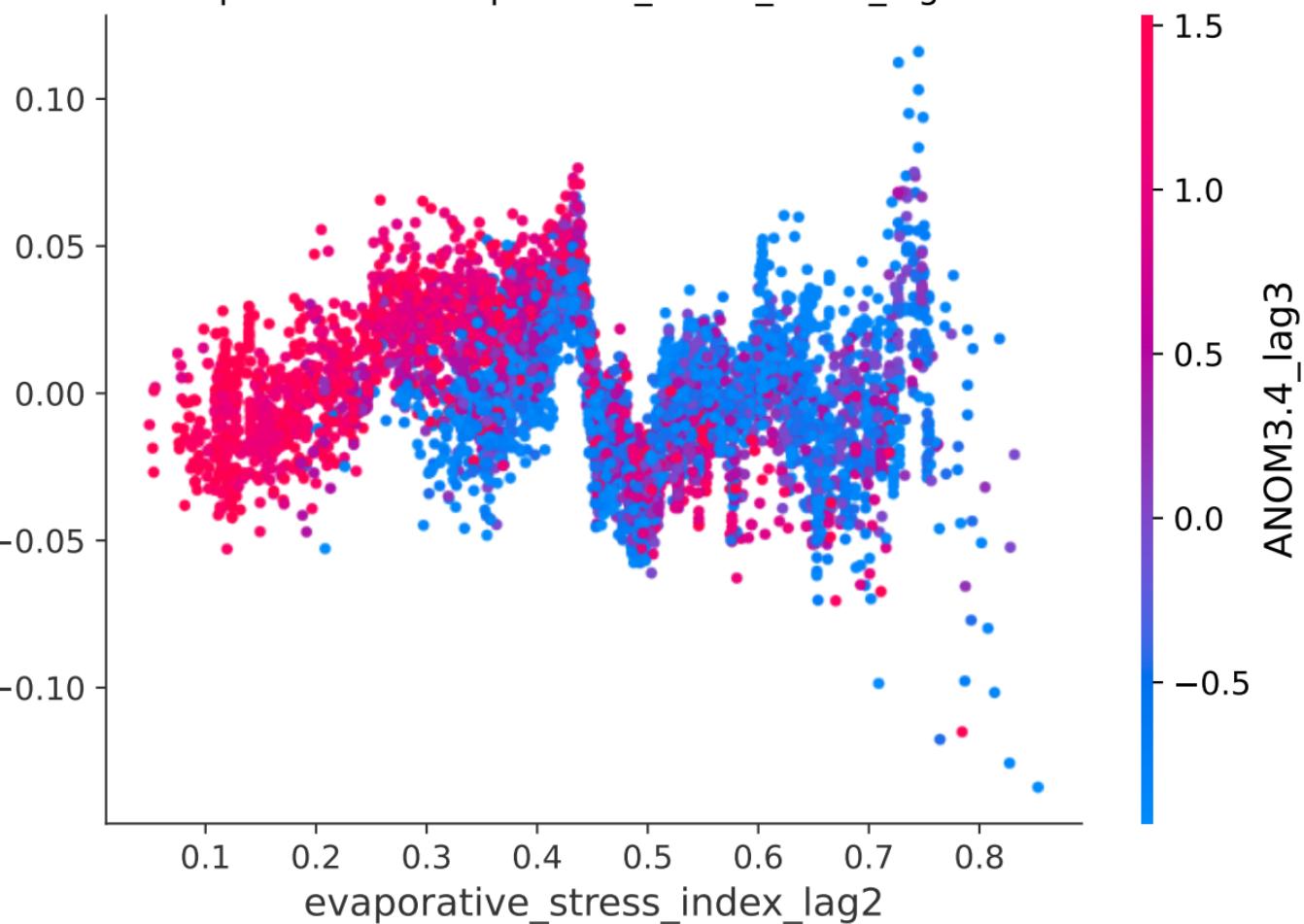


SHAP Dependence - evaporative_stress_index_lag1 - Class 1

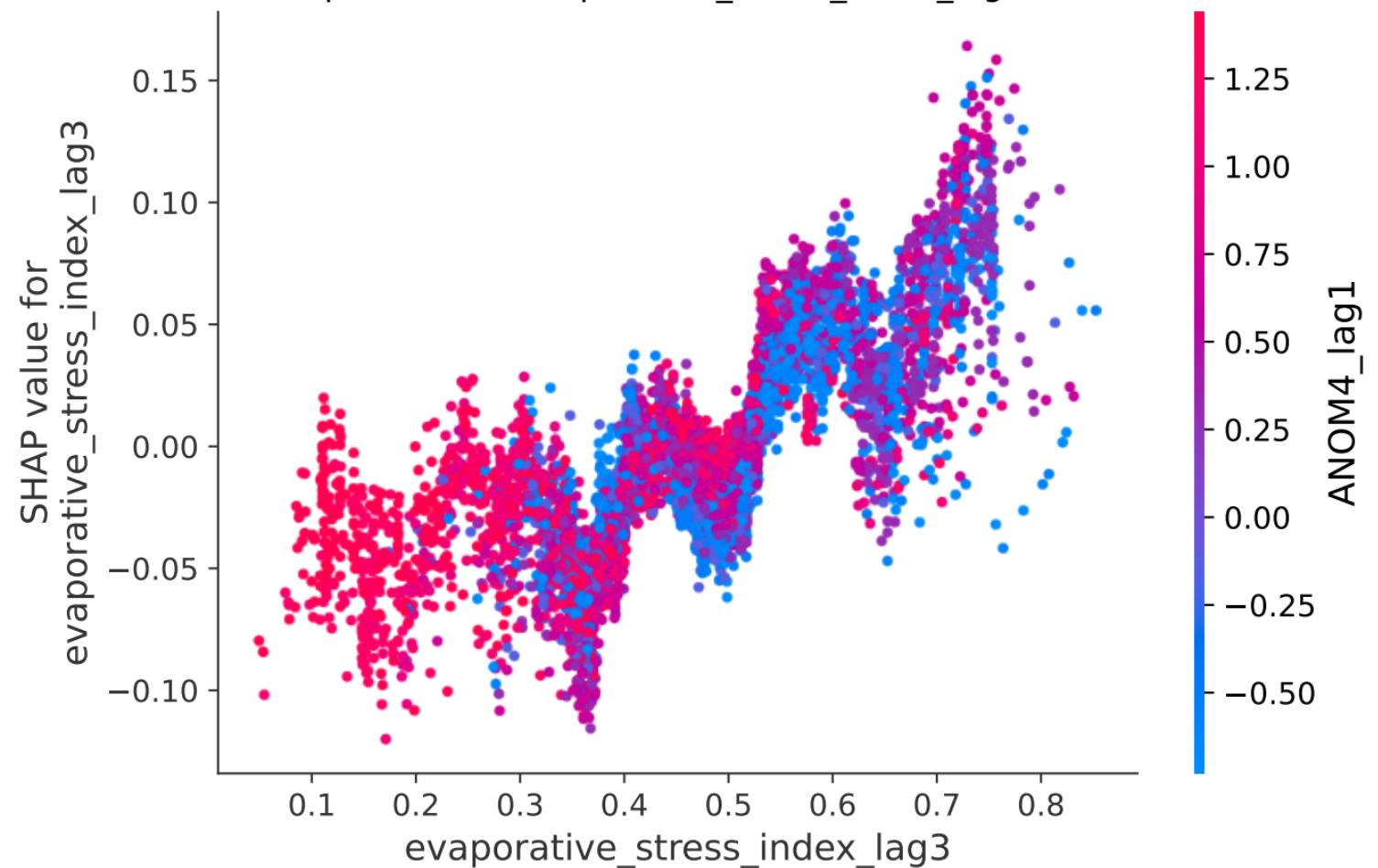


SHAP Dependence - evaporative_stress_index_lag2 - Class 1

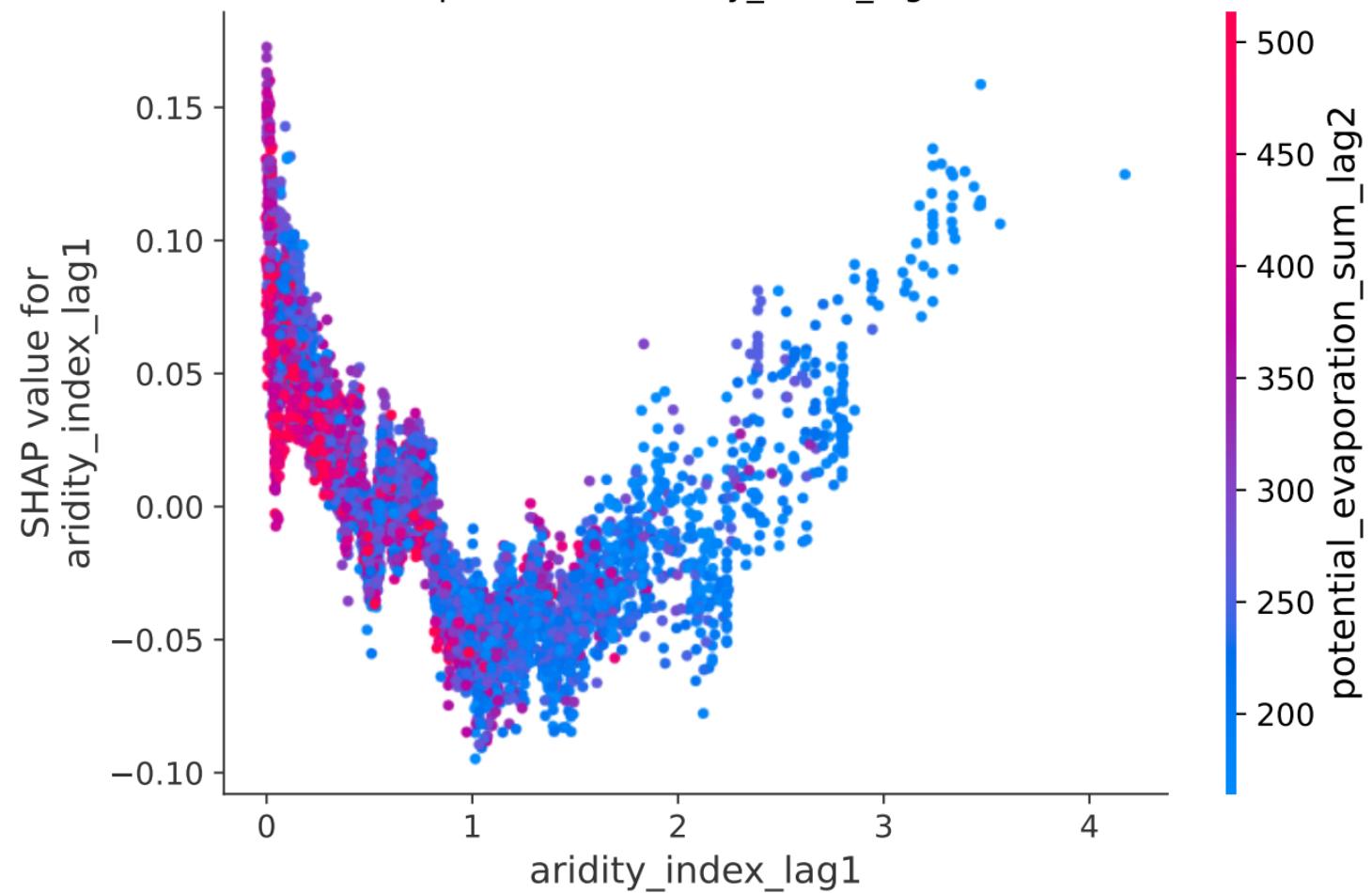
SHAP value for
evaporative_stress_index_lag2



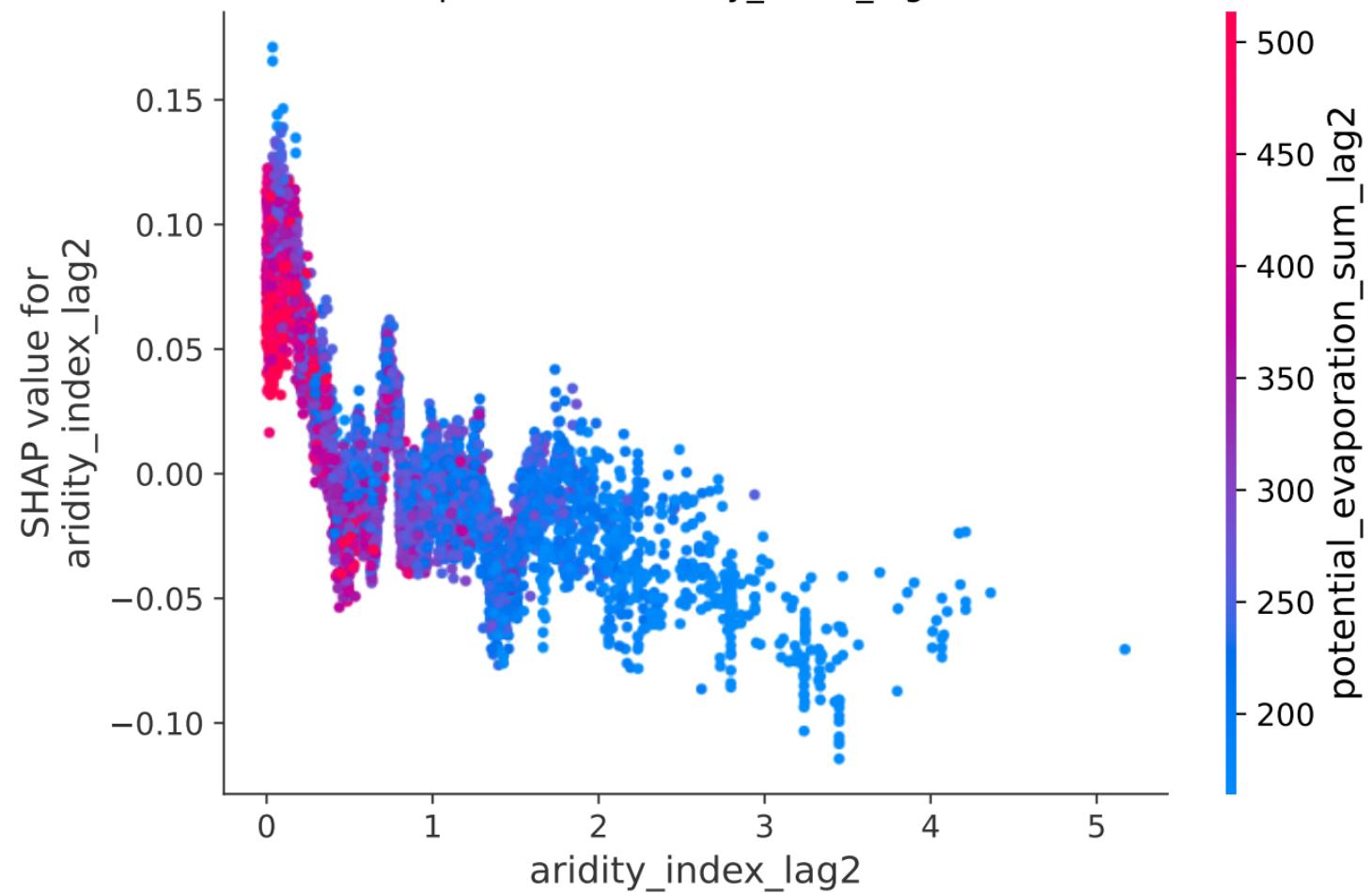
SHAP Dependence - evaporative_stress_index_lag3 - Class 1



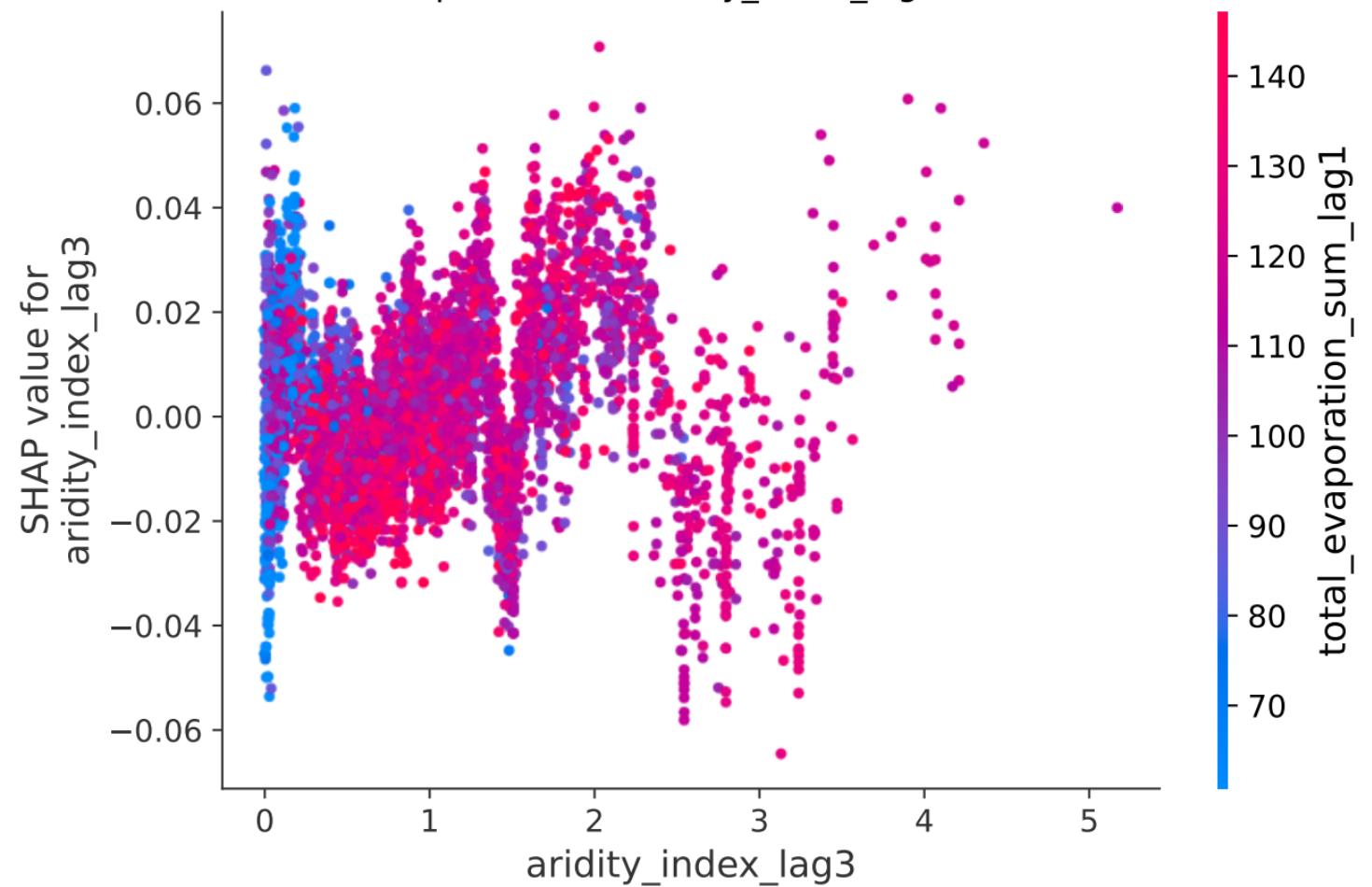
SHAP Dependence - aridity_index_lag1 - Class 1



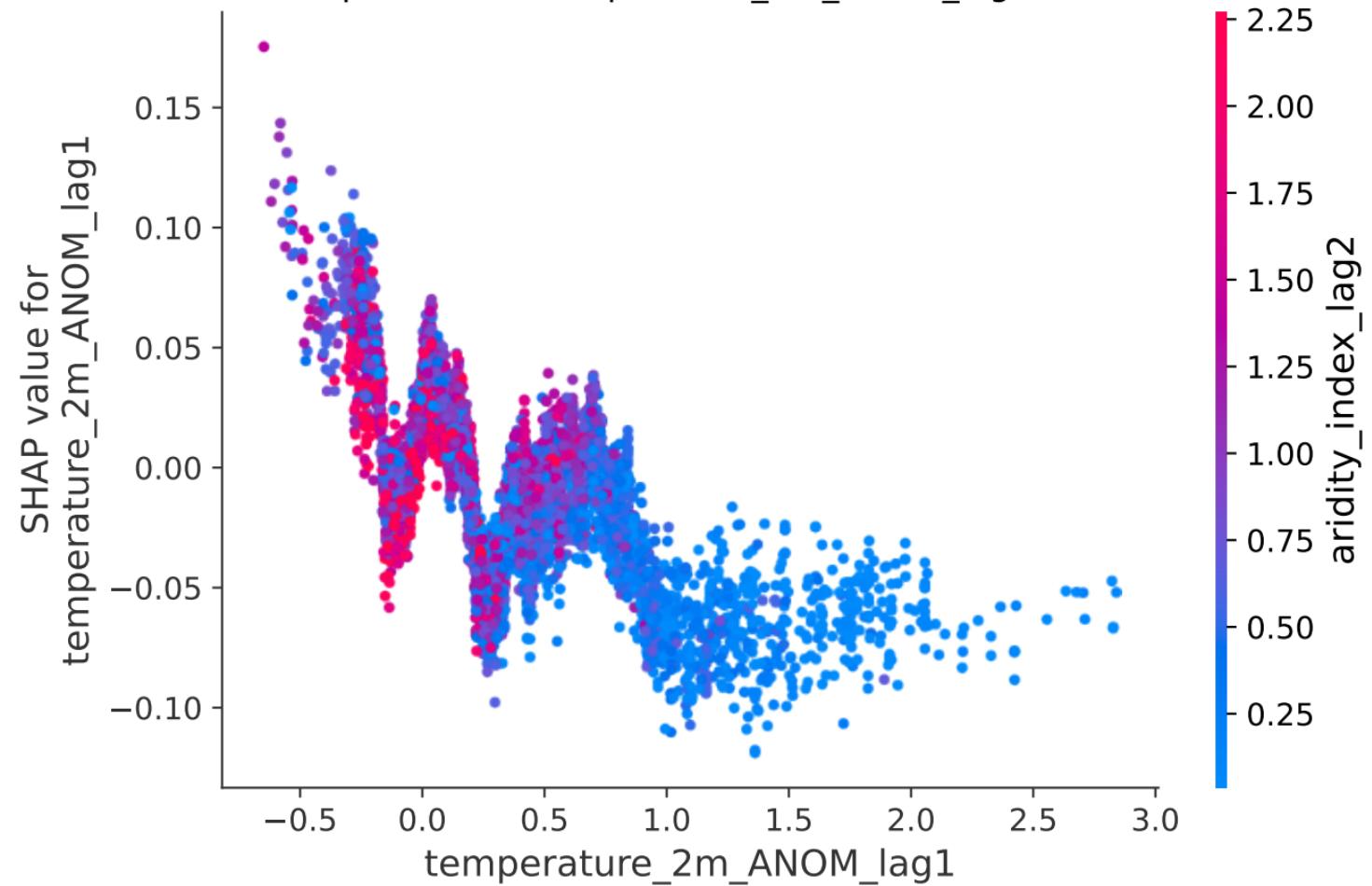
SHAP Dependence - aridity_index_lag2 - Class 1



SHAP Dependence - aridity_index_lag3 - Class 1

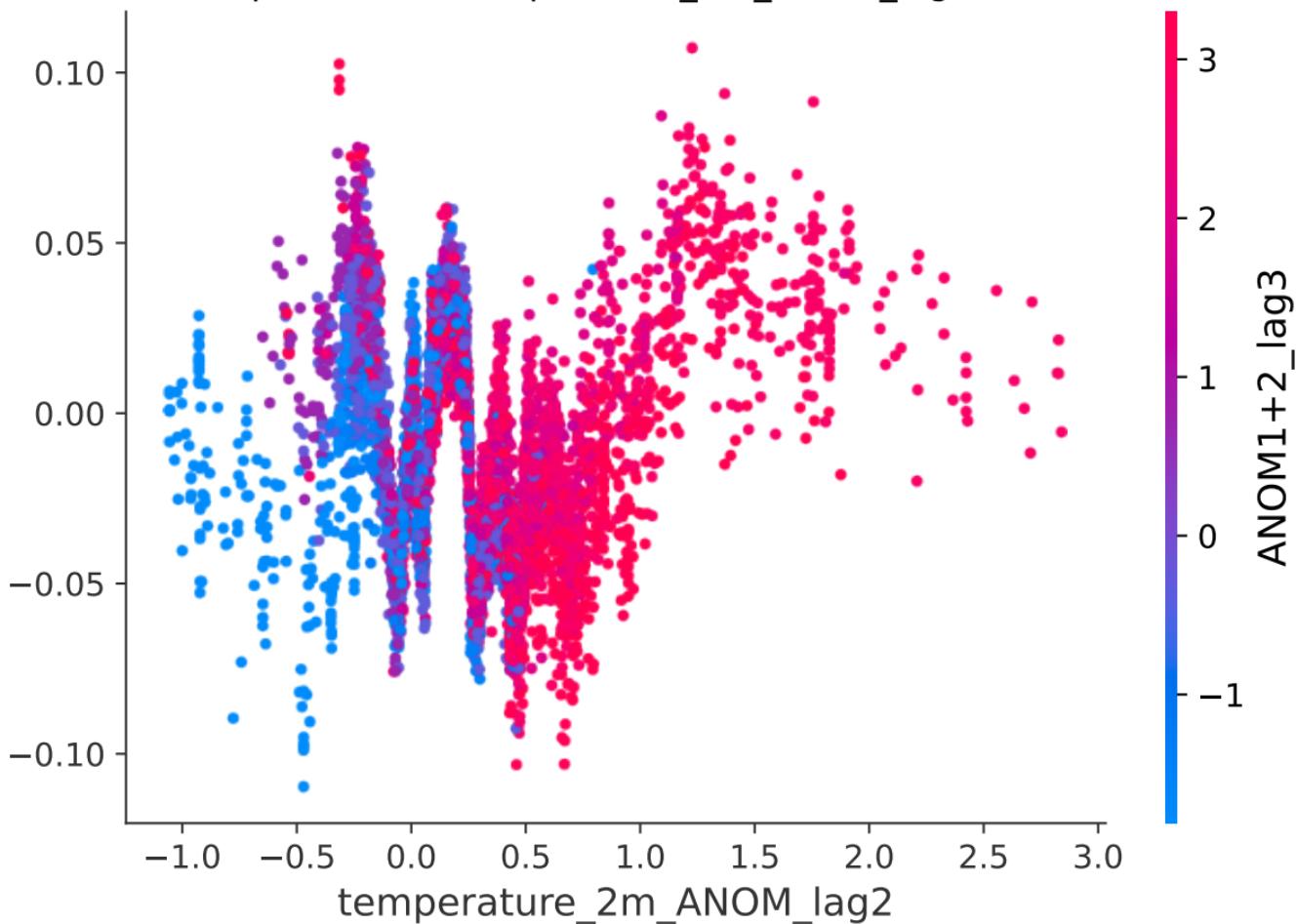


SHAP Dependence - temperature_2m_ANOM_lag1 - Class 1

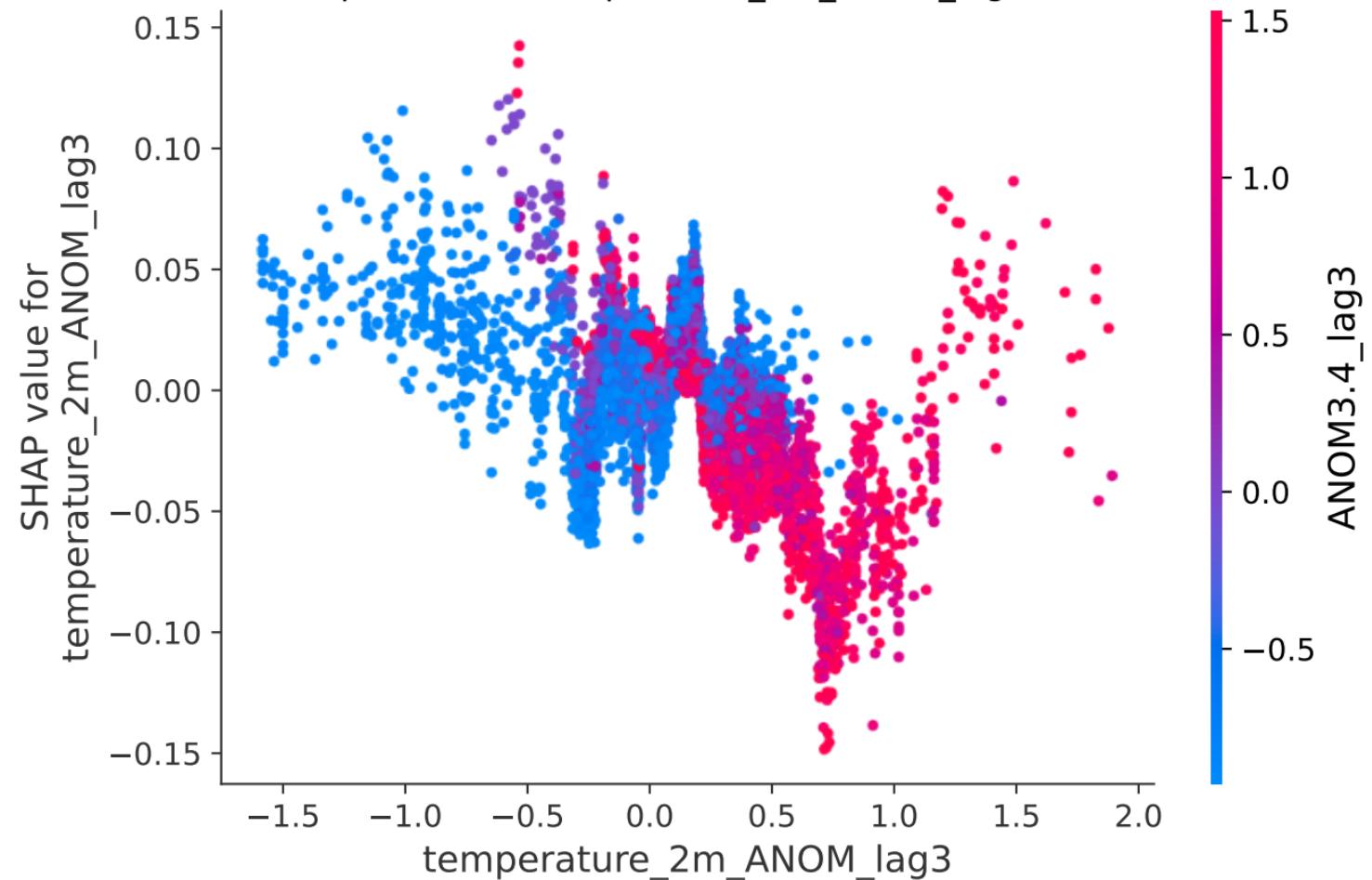


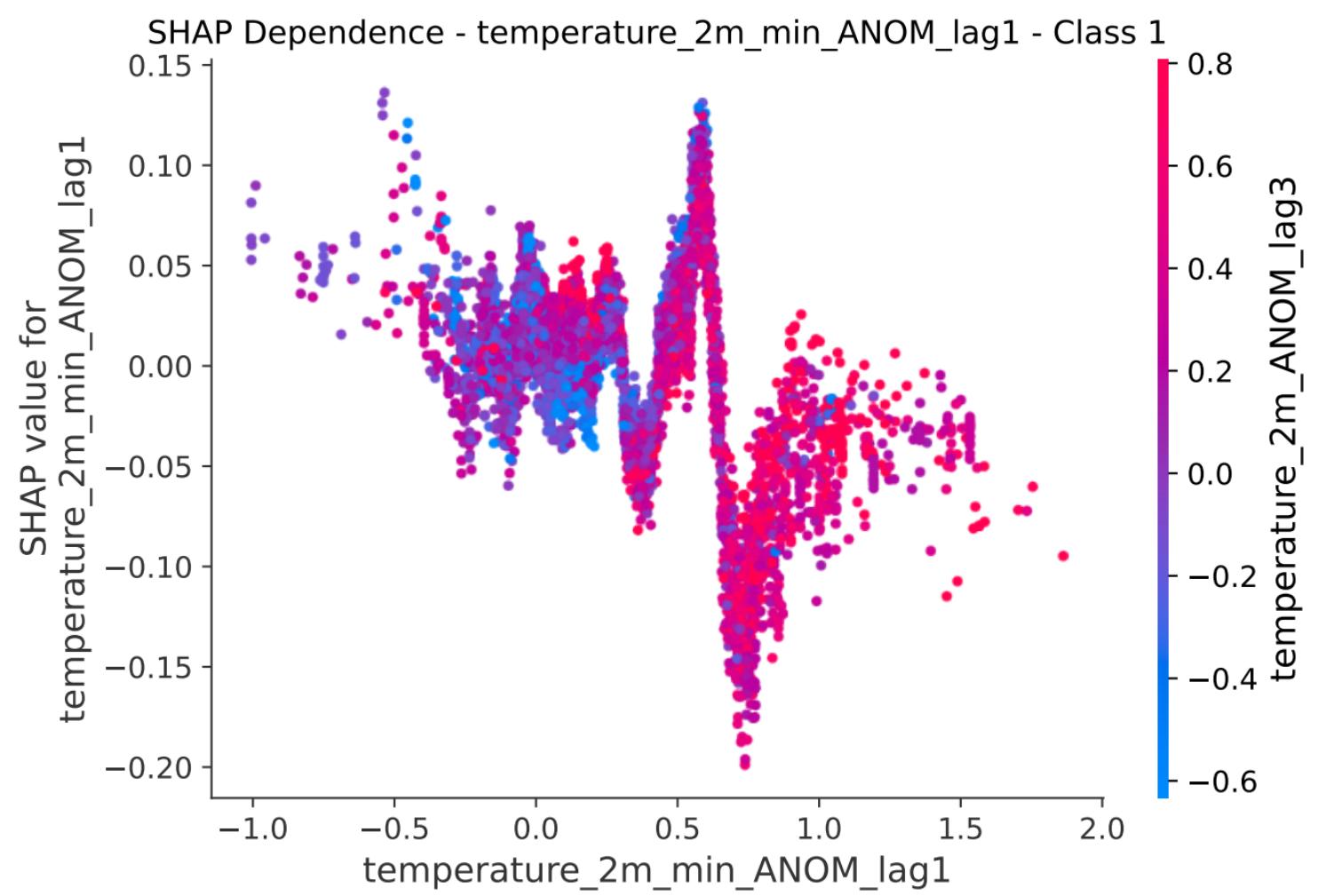
SHAP Dependence - temperature_2m_ANOM_lag2 - Class 1

SHAP value for
temperature_2m_ANOM_lag2

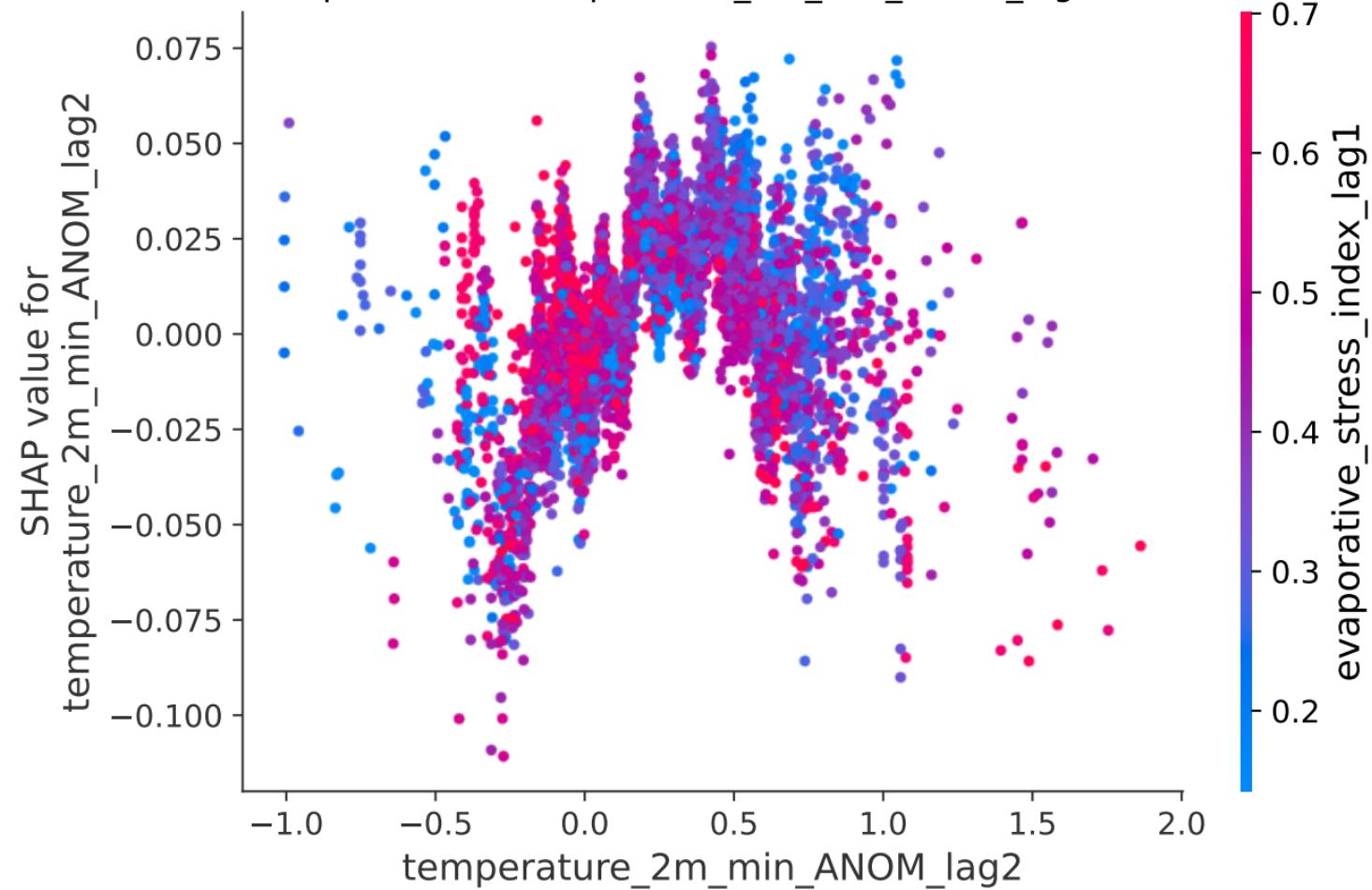


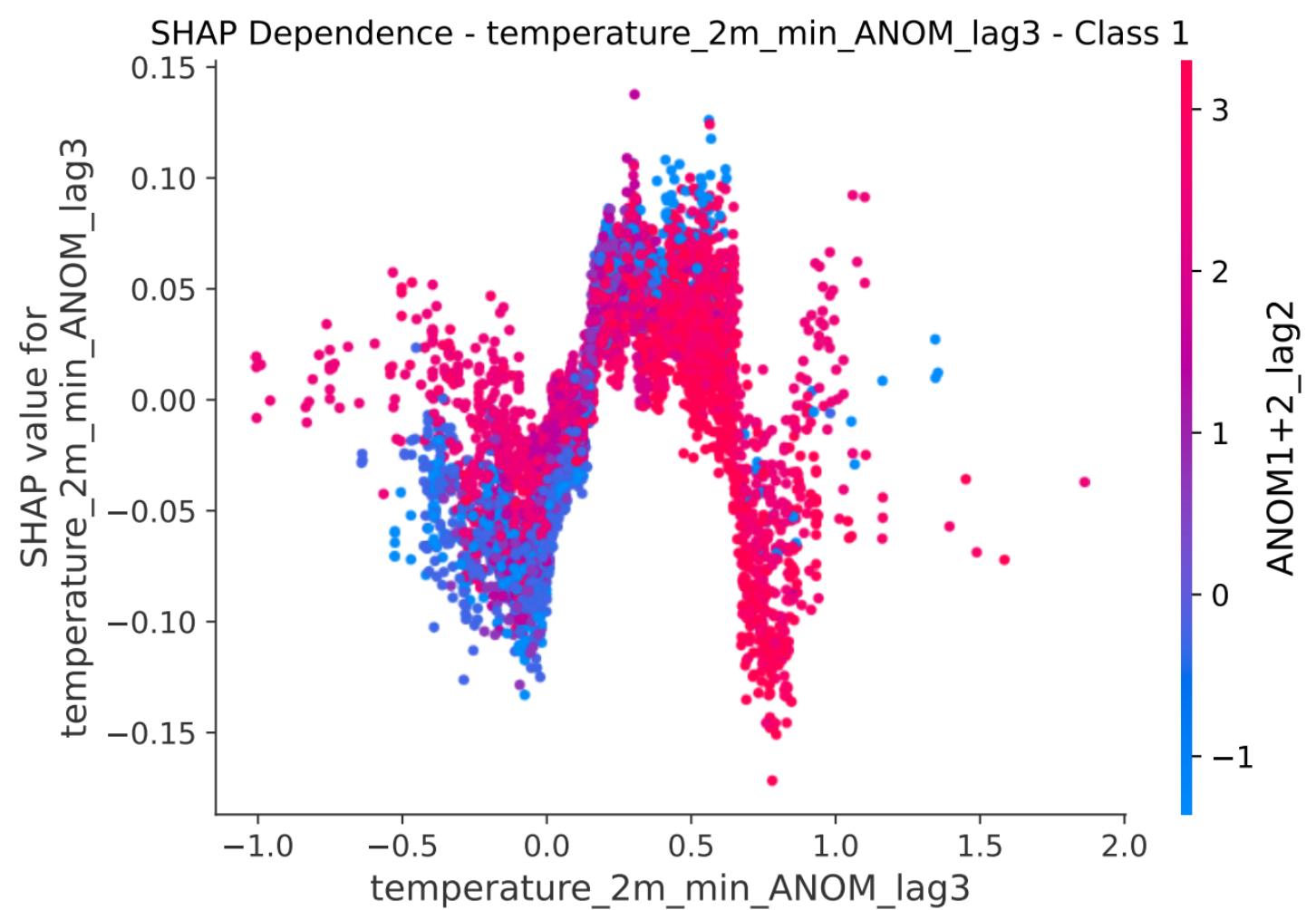
SHAP Dependence - temperature_2m_ANOM_lag3 - Class 1



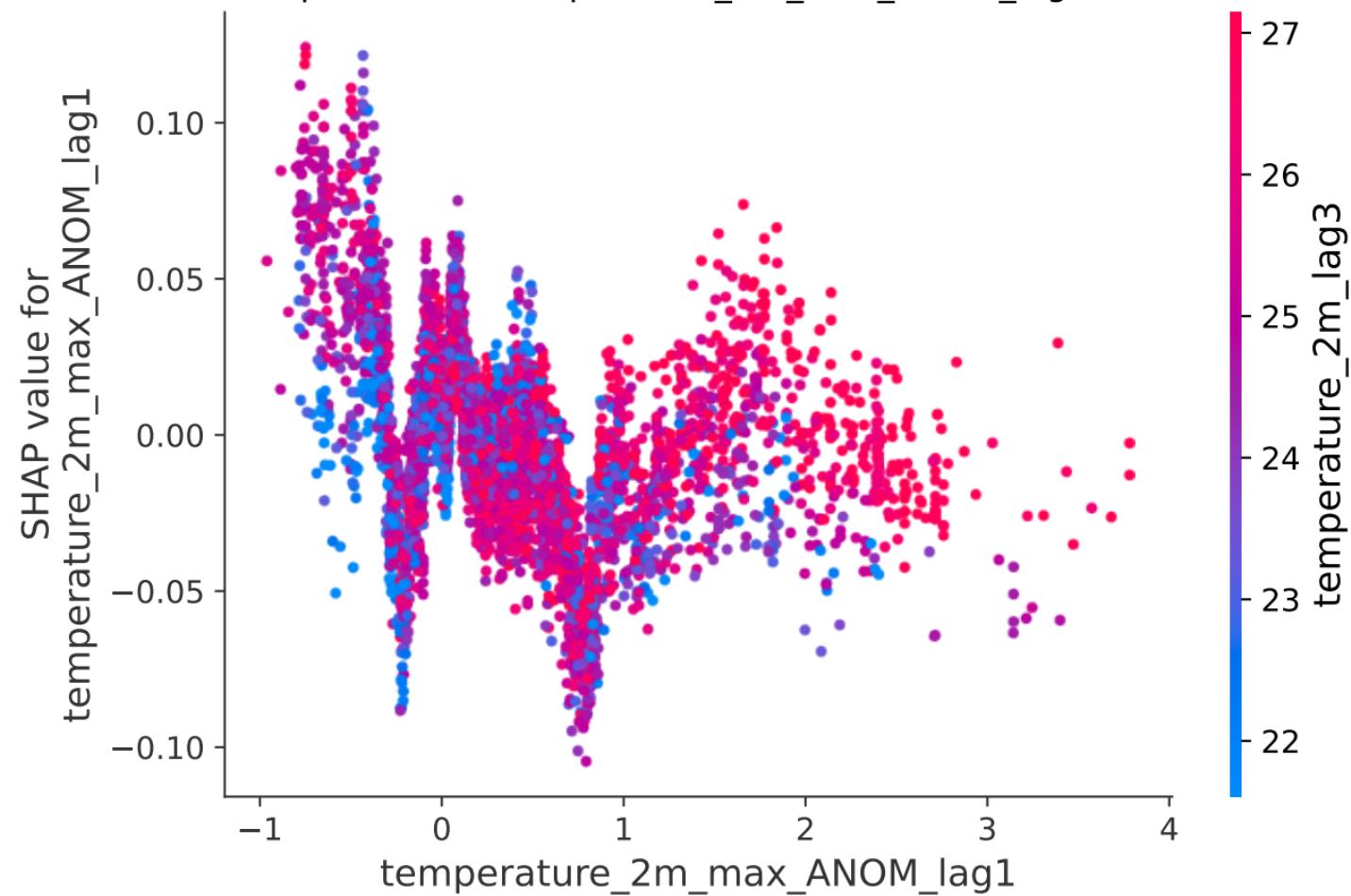


SHAP Dependence - temperature_2m_min_ANOM_lag2 - Class 1

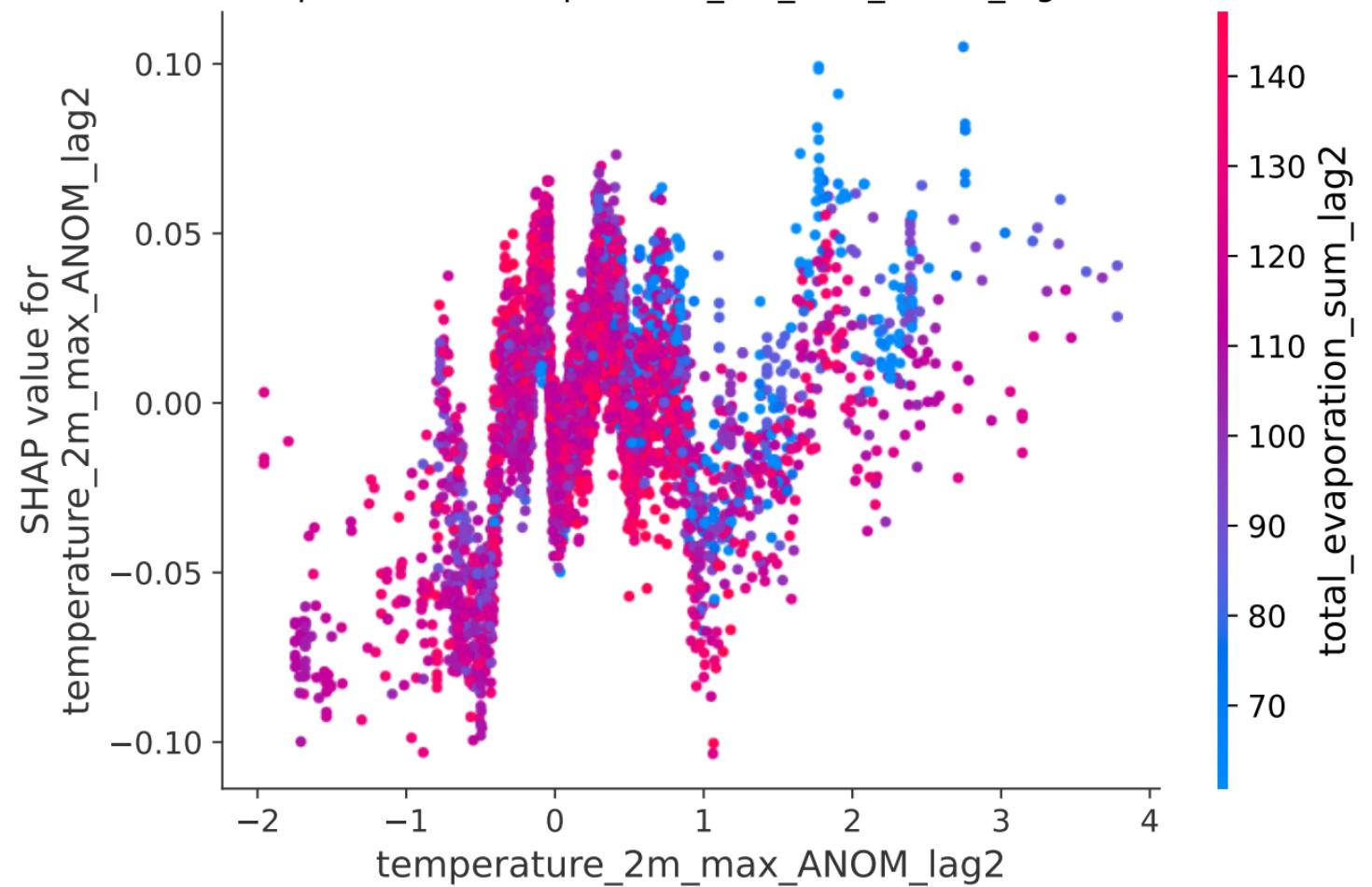




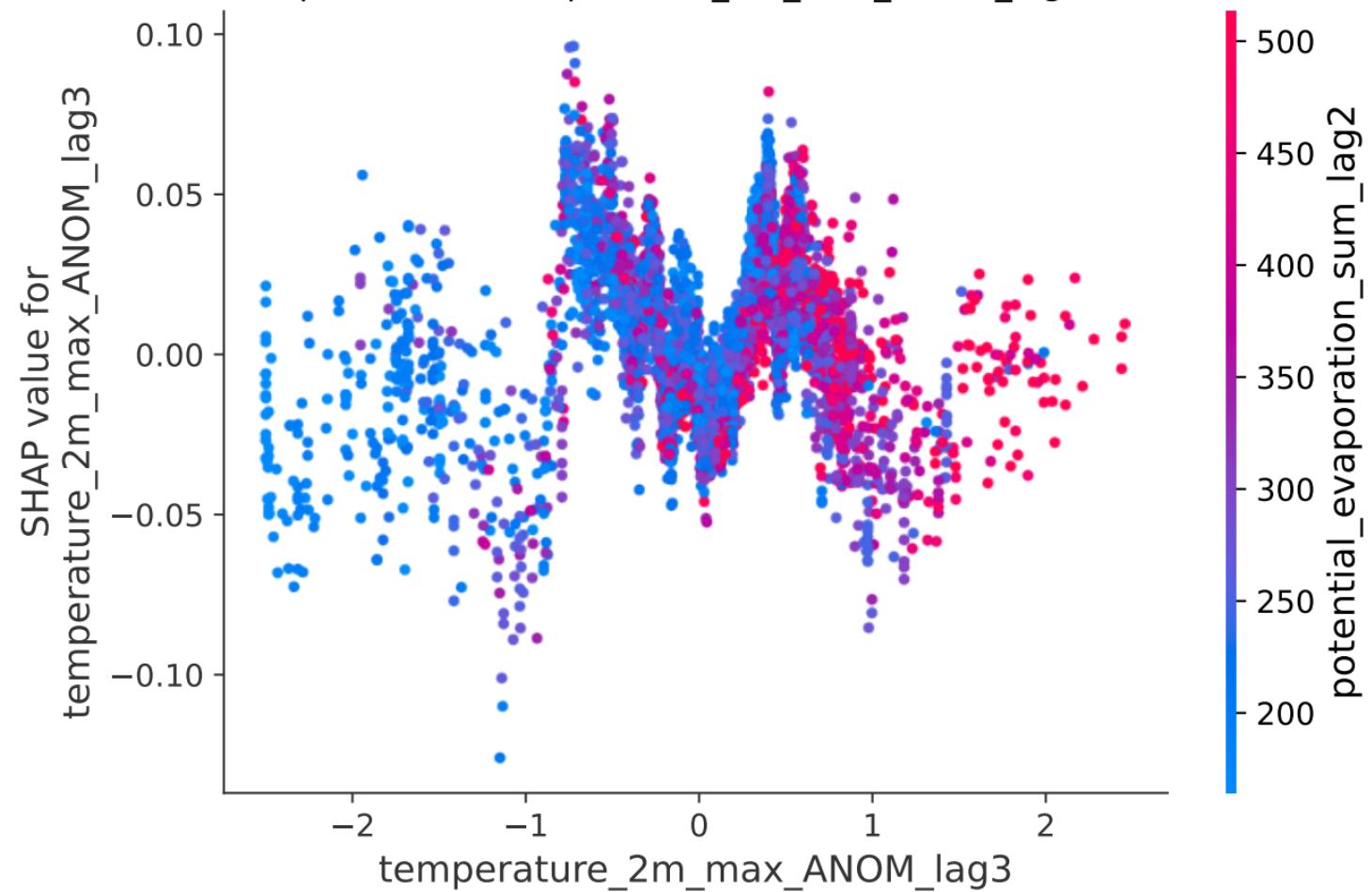
SHAP Dependence - temperature_2m_max_ANOM_lag1 - Class 1



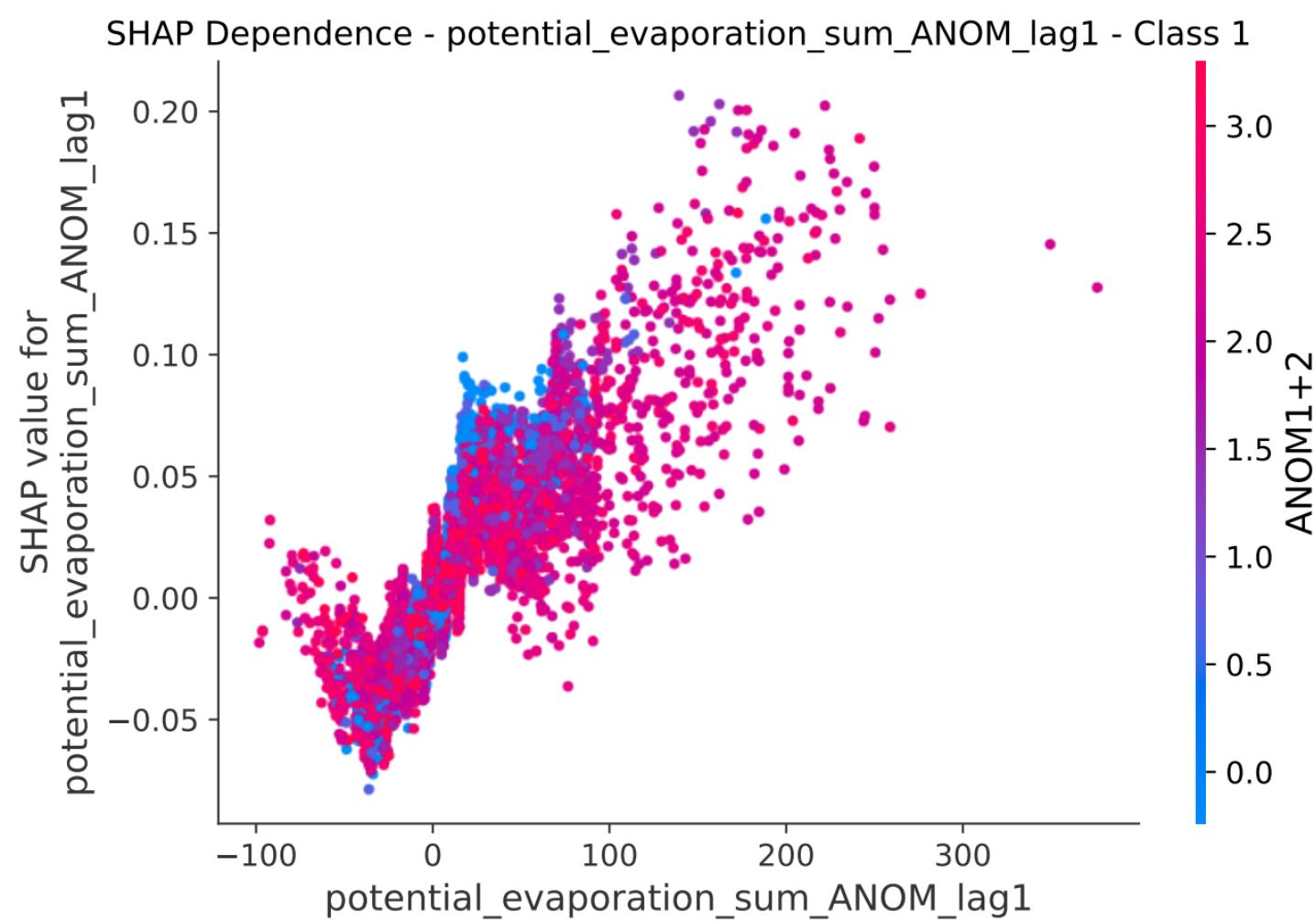
SHAP Dependence - temperature_2m_max_ANOM_lag2 - Class 1



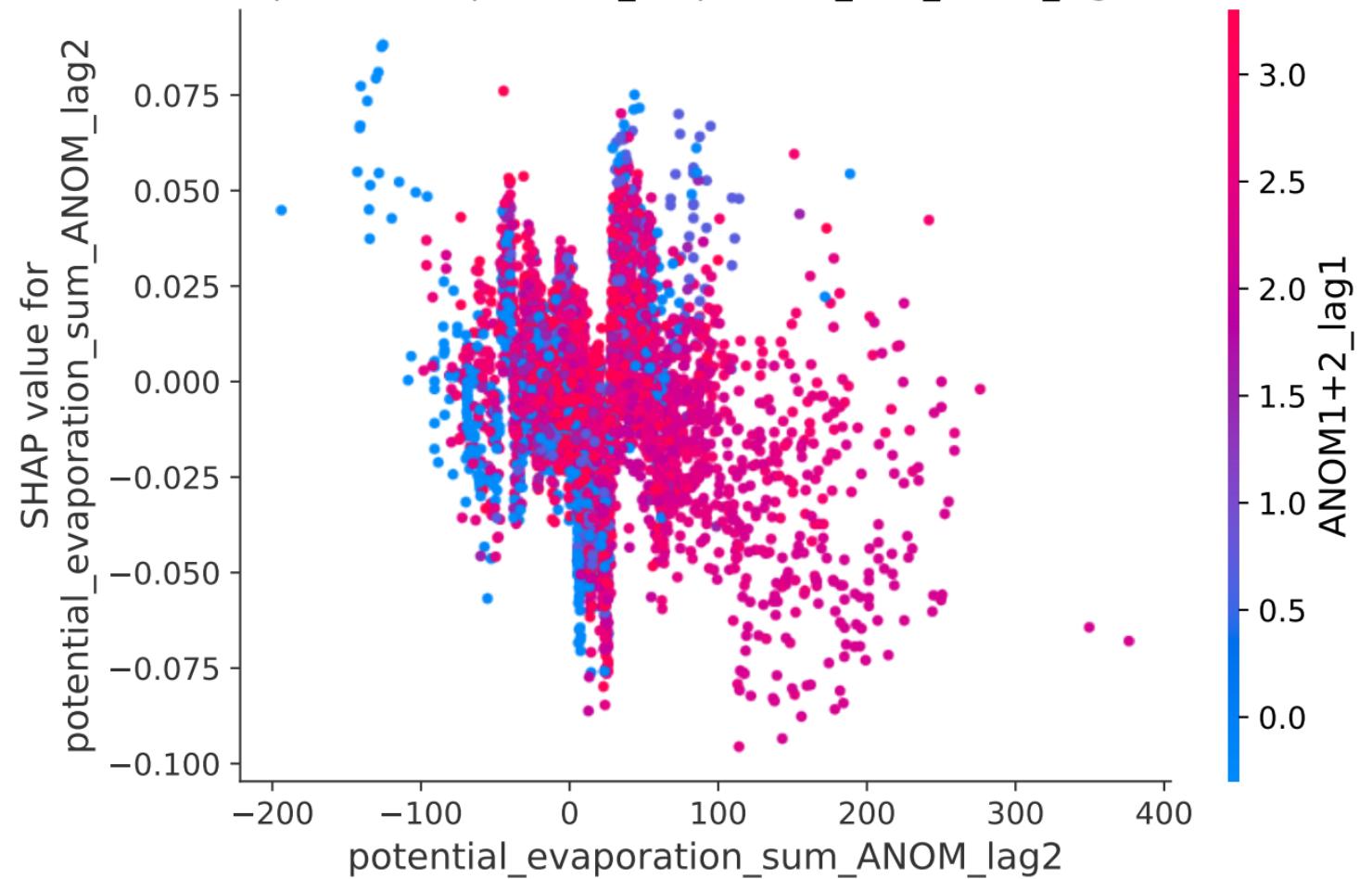
SHAP Dependence - temperature_2m_max_ANOM_lag3 - Class 1



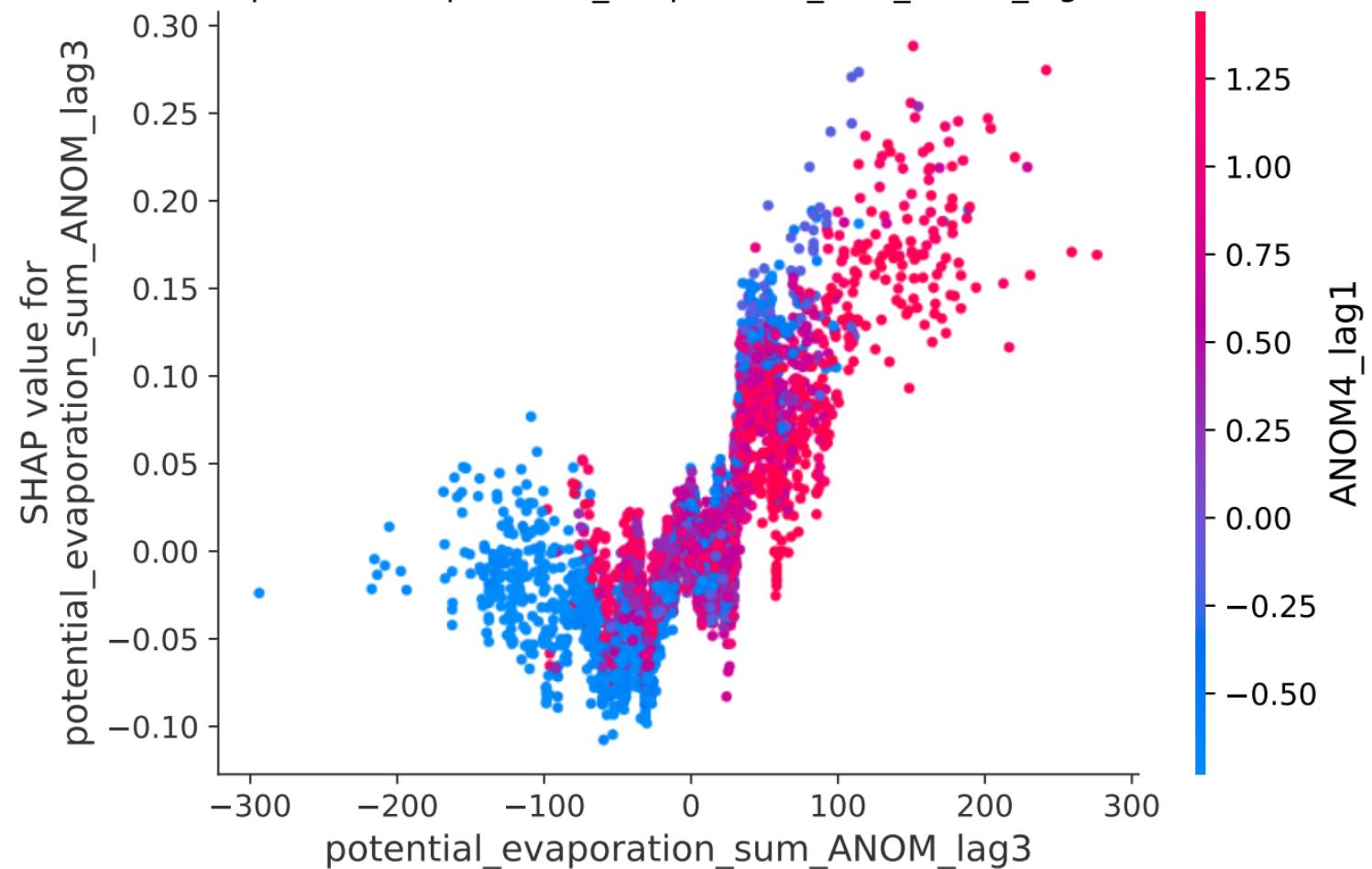
SHAP Dependence - potential_evaporation_sum_ANOM_lag1 - Class 1



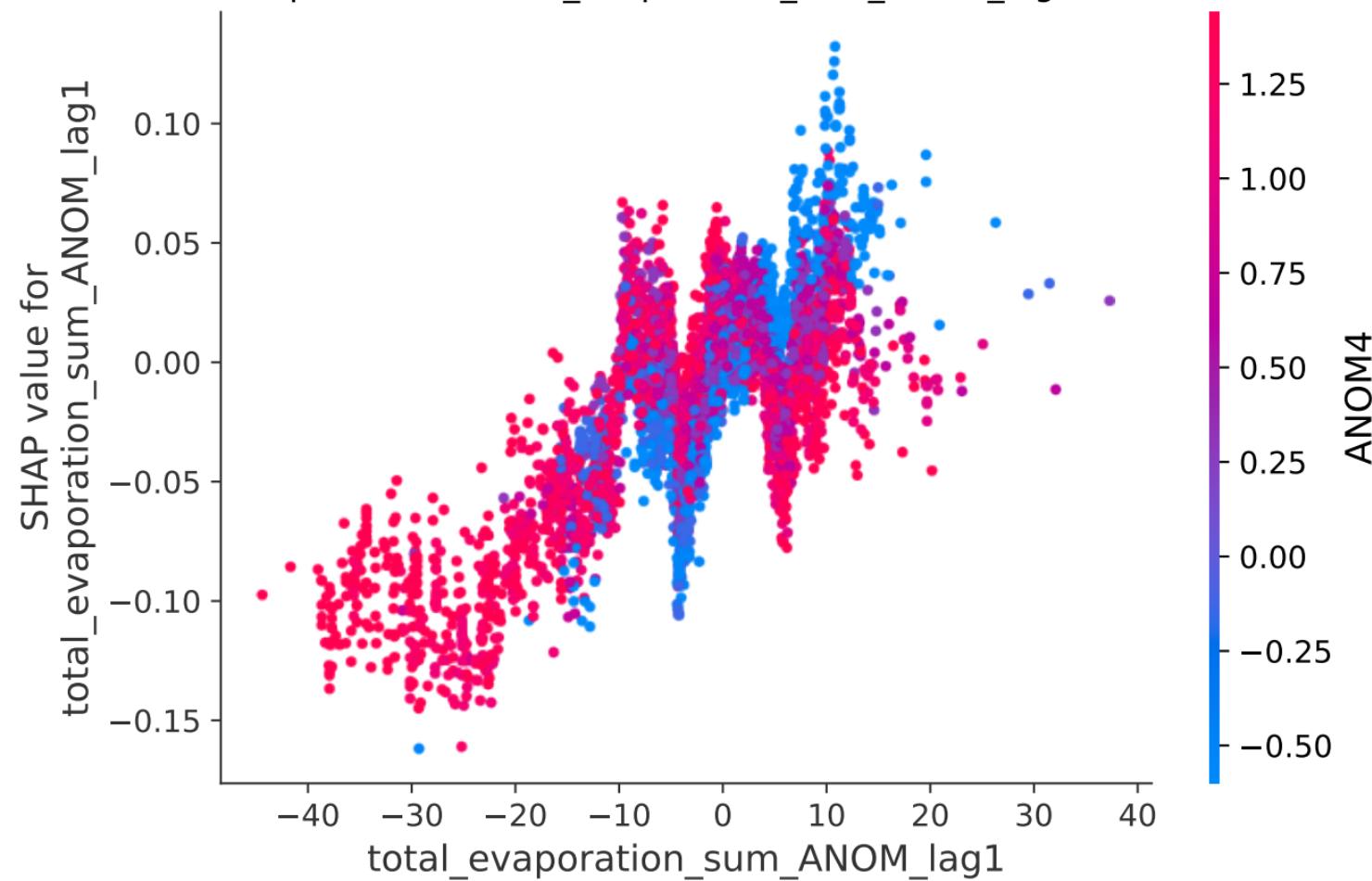
SHAP Dependence - potential_evaporation_sum_ANOM_lag2 - Class 1

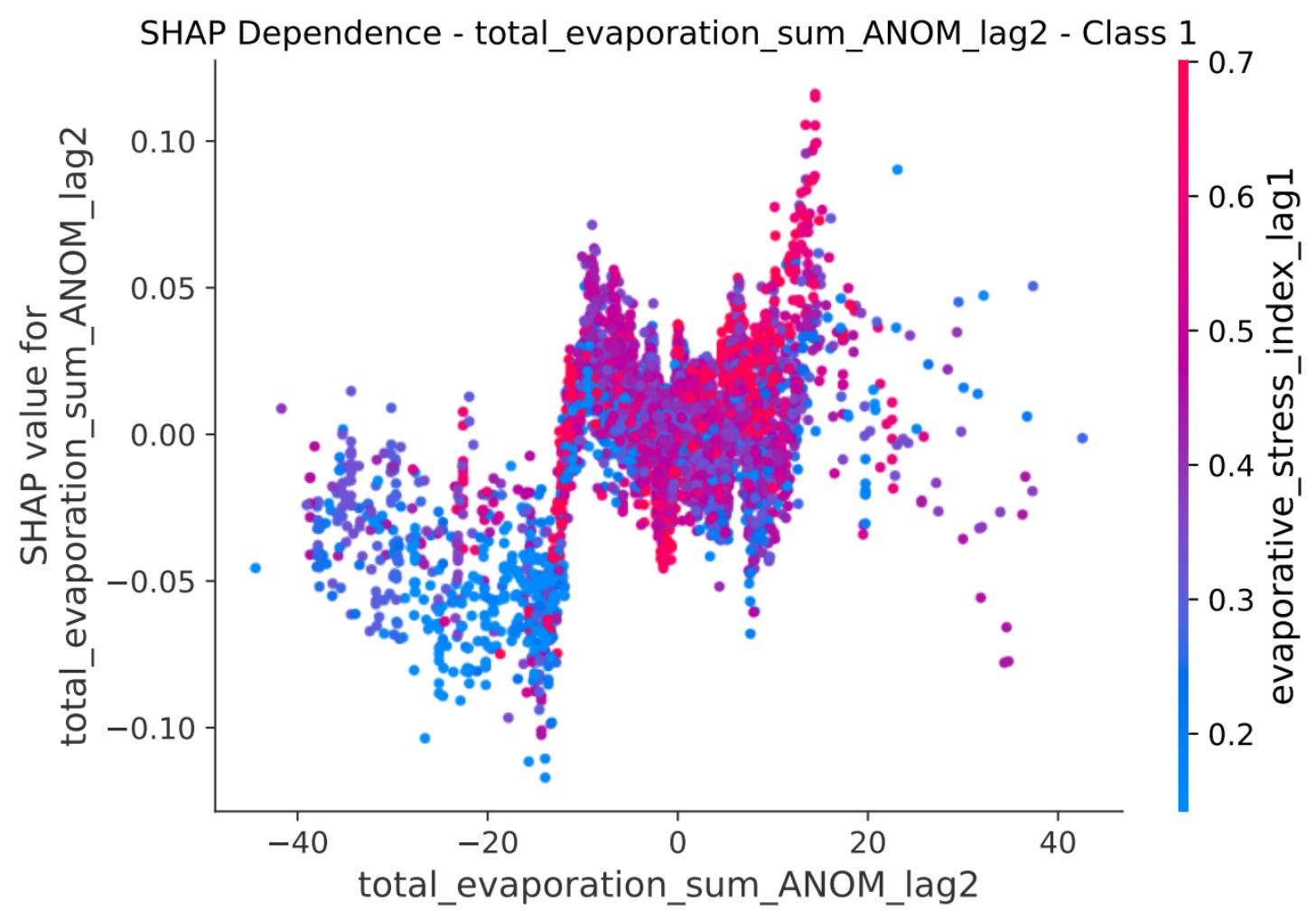


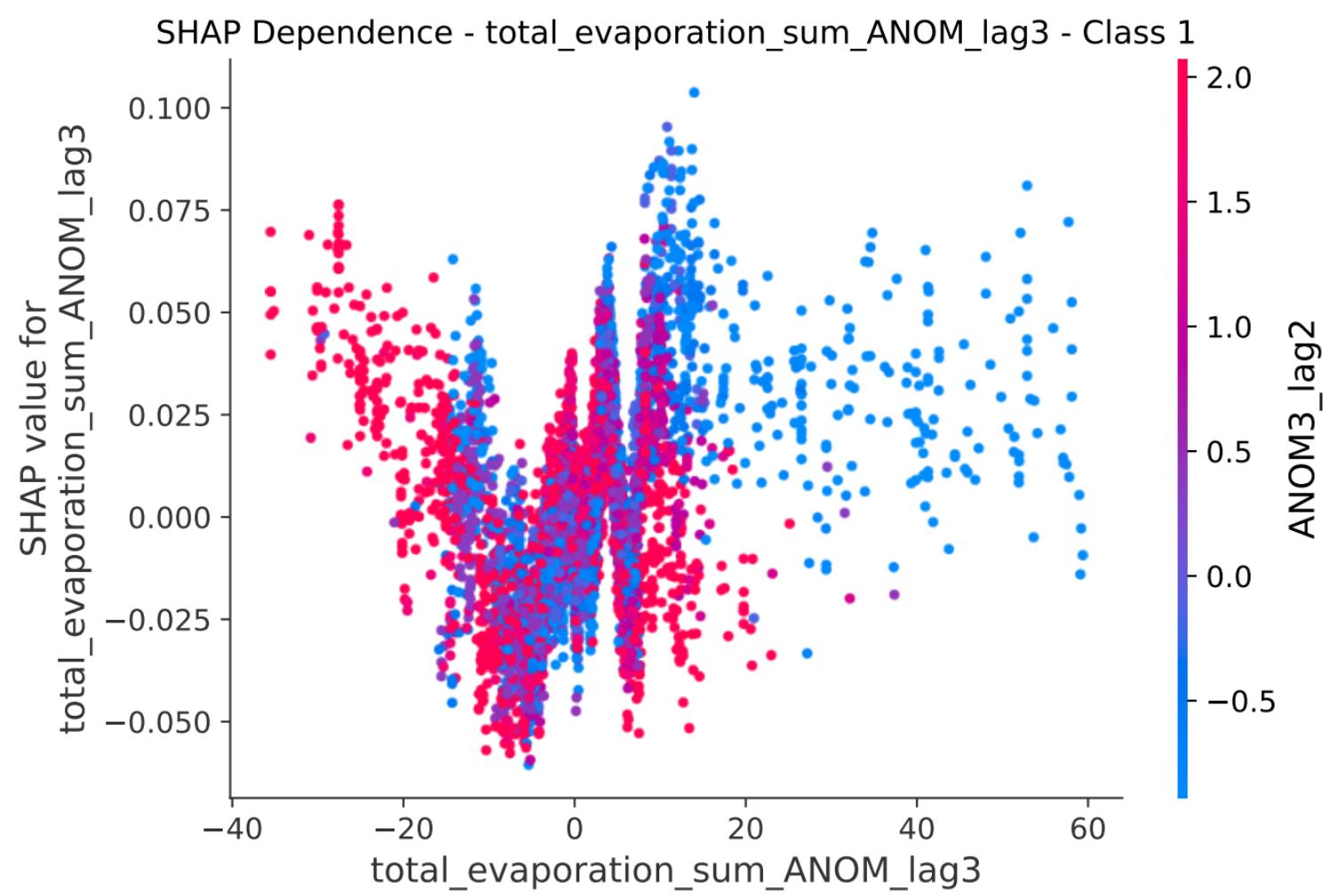
SHAP Dependence - potential_evaporation_sum_ANOM_lag3 - Class 1



SHAP Dependence - total_evaporation_sum_ANOM_lag1 - Class 1







SHAP Dependence - precipitation_ANOM_lag1 - Class 1

SHAP value for
precipitation_ANOM_lag1

0.10

0.05

0.00

-0.05

-0.10

-300

-200

-100

0

100

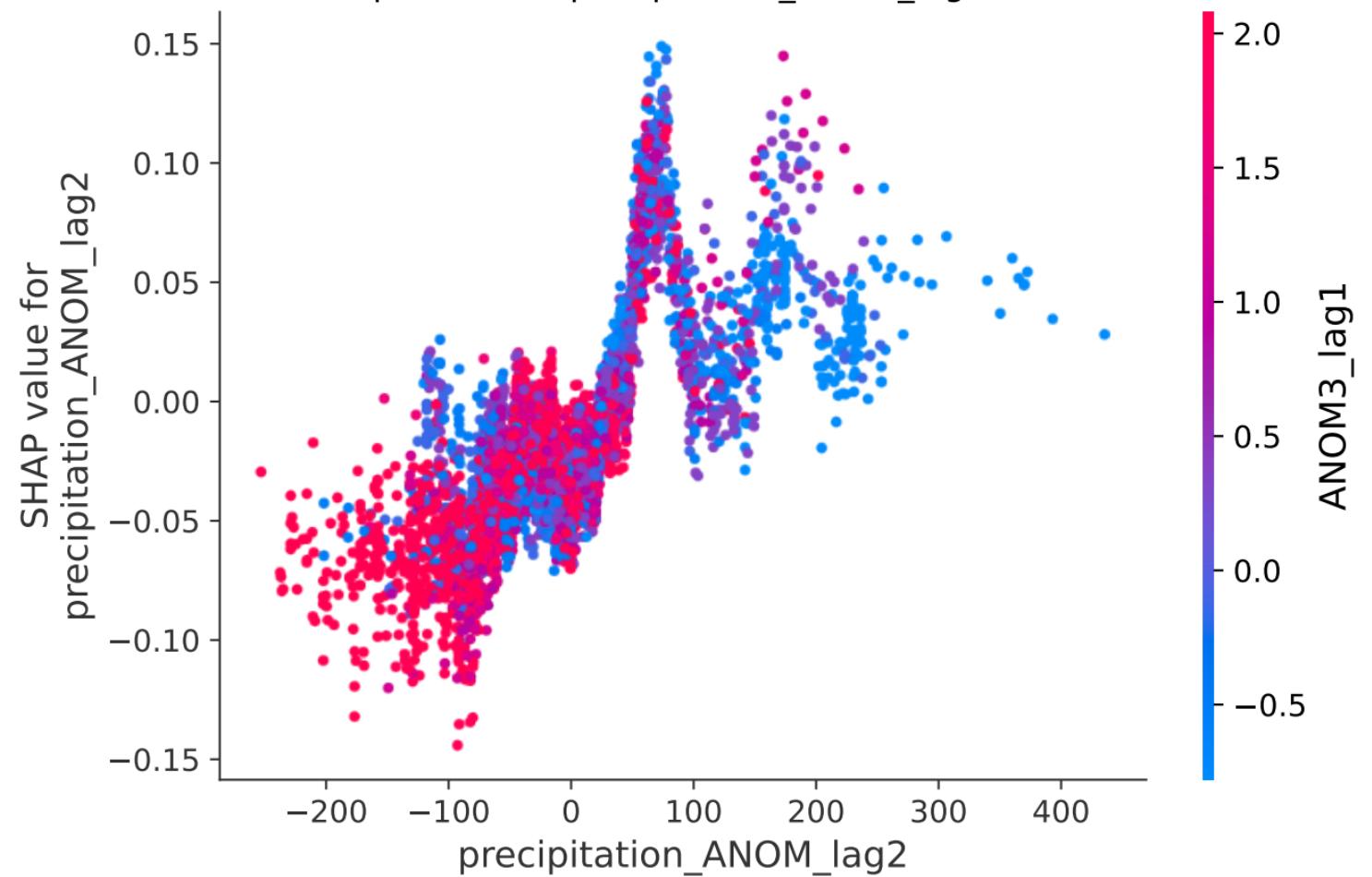
200

precipitation_ANOM_lag1

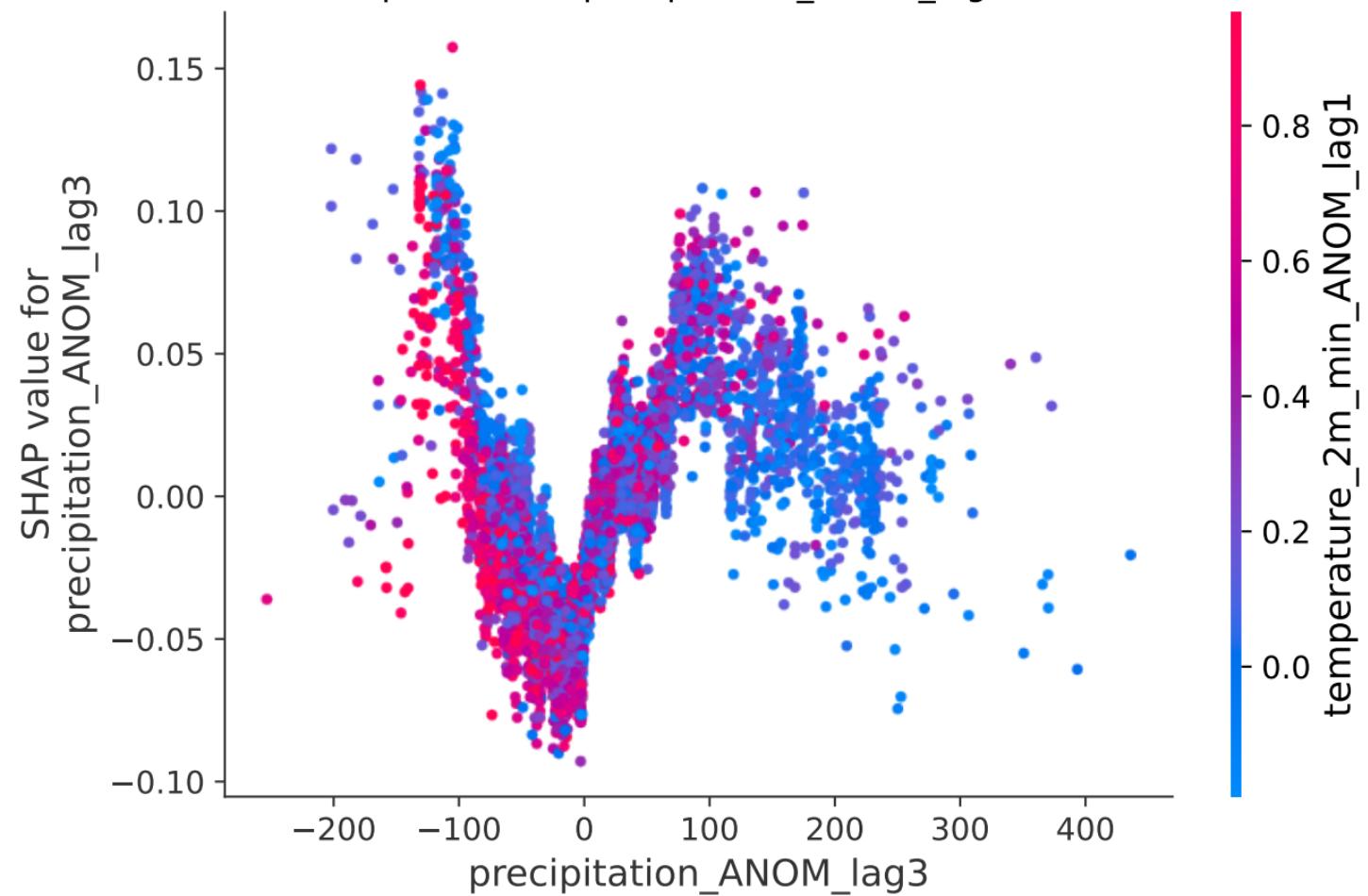
32
31
30
29
28
27
26

temperature_2m_max_lag1

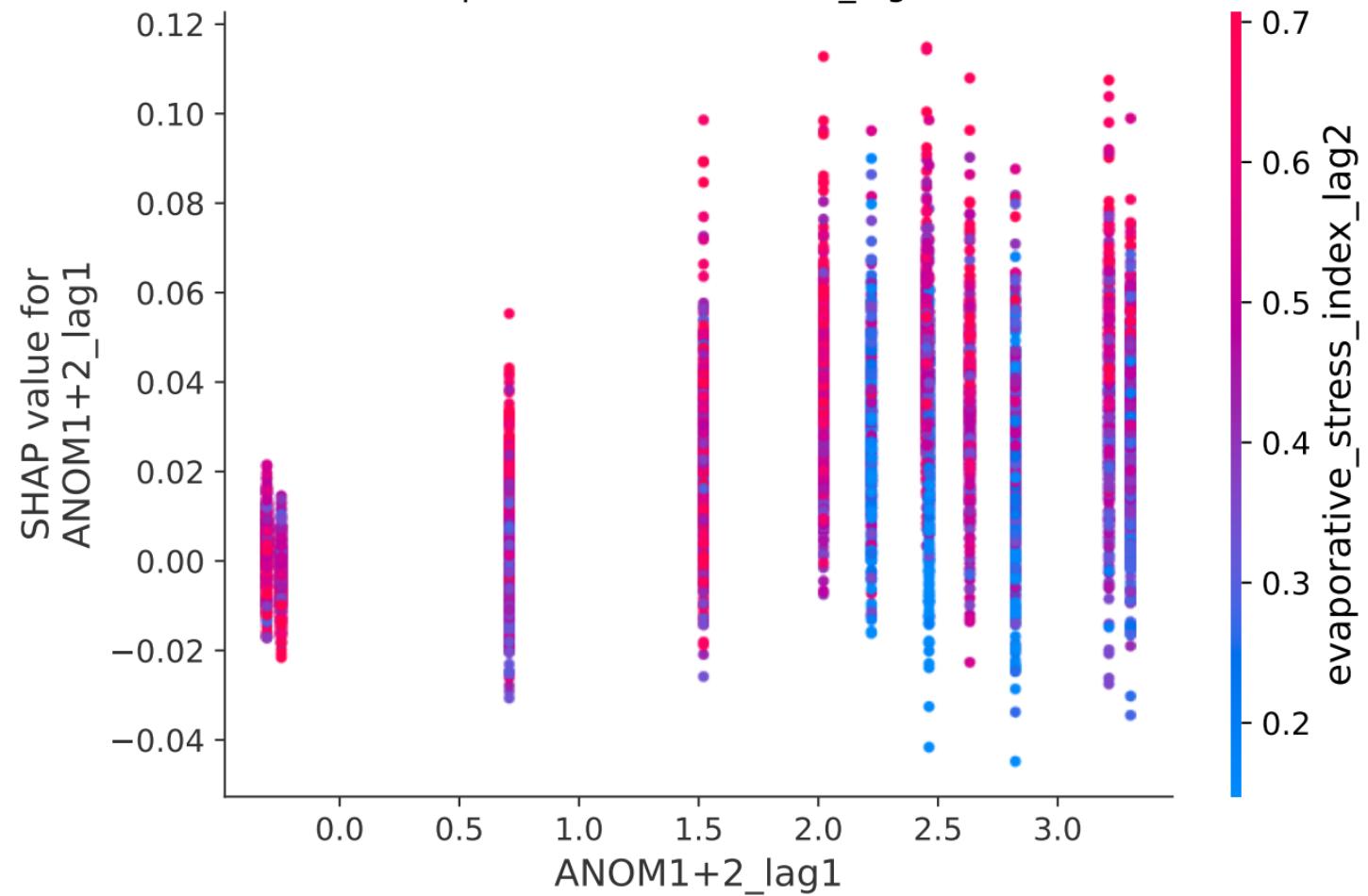
SHAP Dependence - precipitation_ANOM_lag2 - Class 1



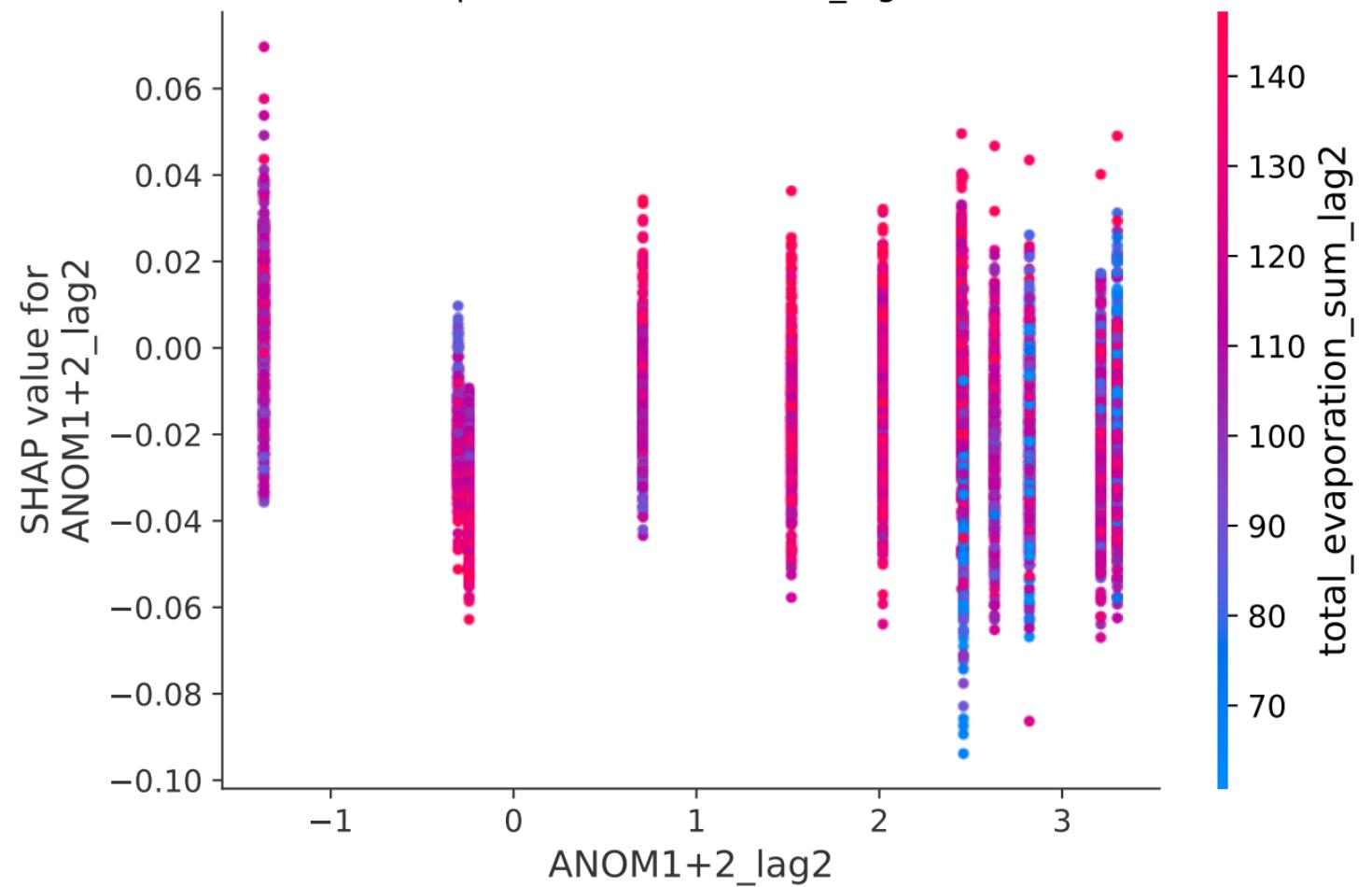
SHAP Dependence - precipitation_ANOM_lag3 - Class 1



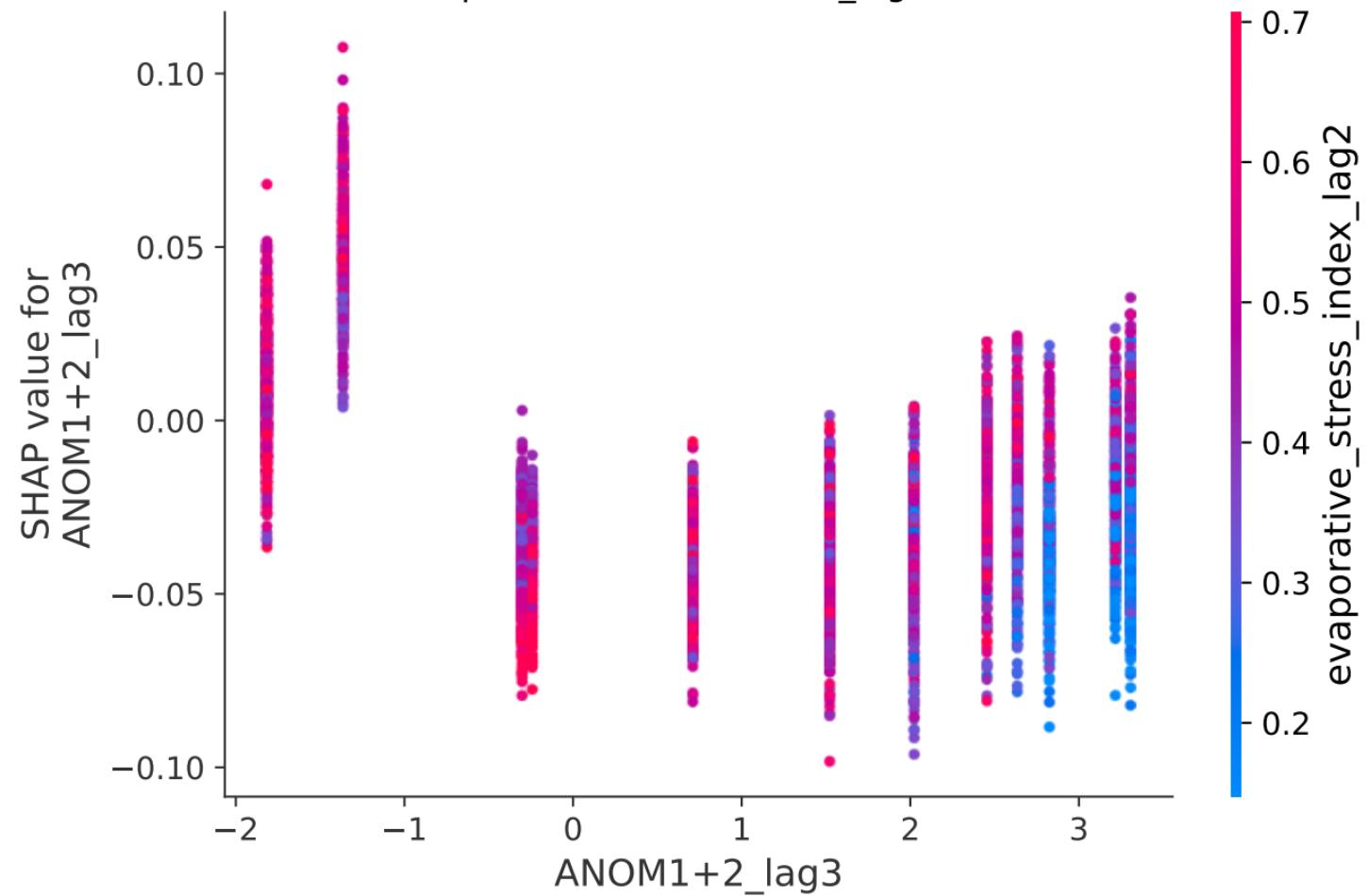
SHAP Dependence - ANOM1+2_lag1 - Class 1



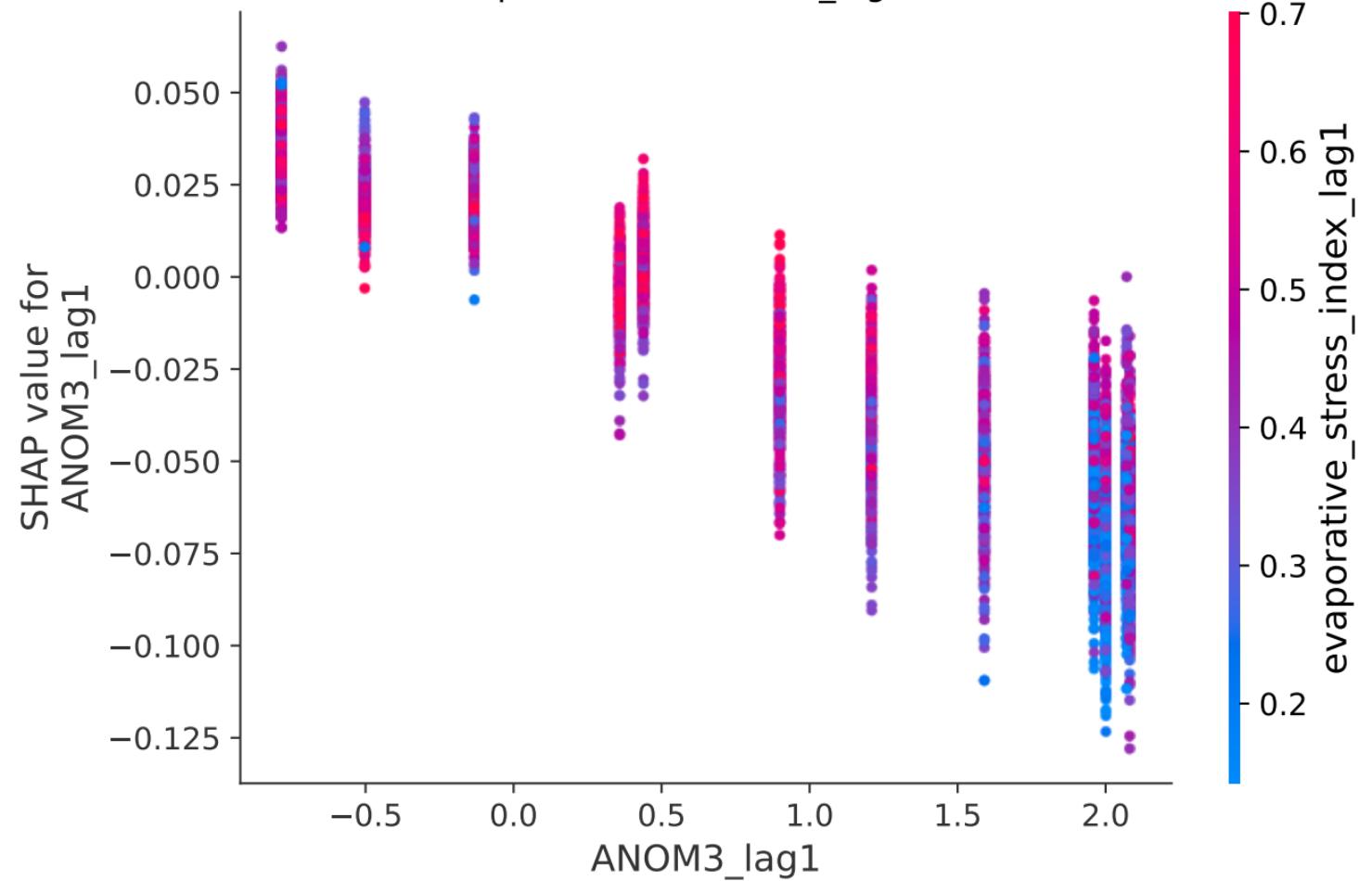
SHAP Dependence - ANOM1+2_lag2 - Class 1



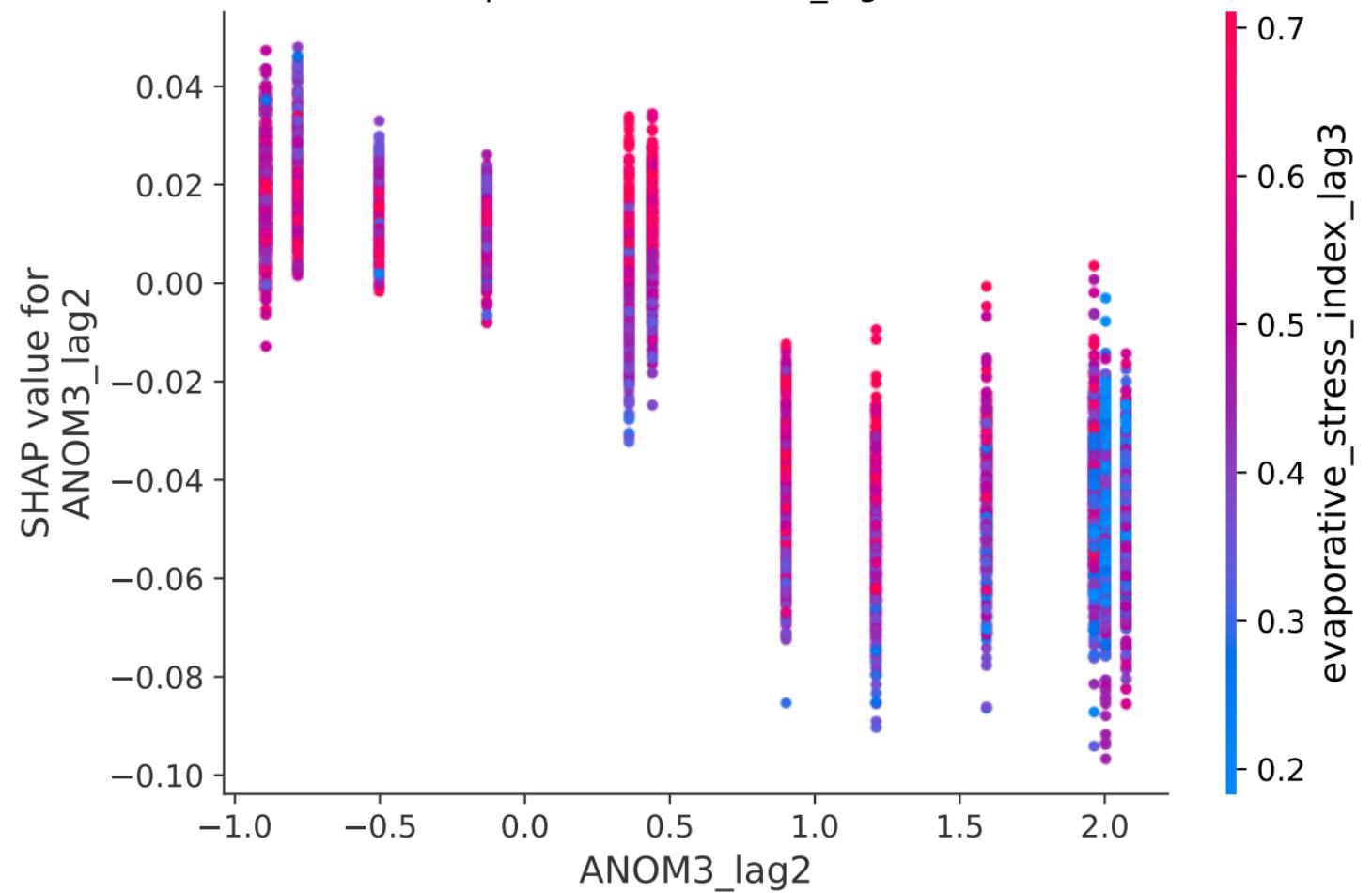
SHAP Dependence - ANOM1+2_lag3 - Class 1



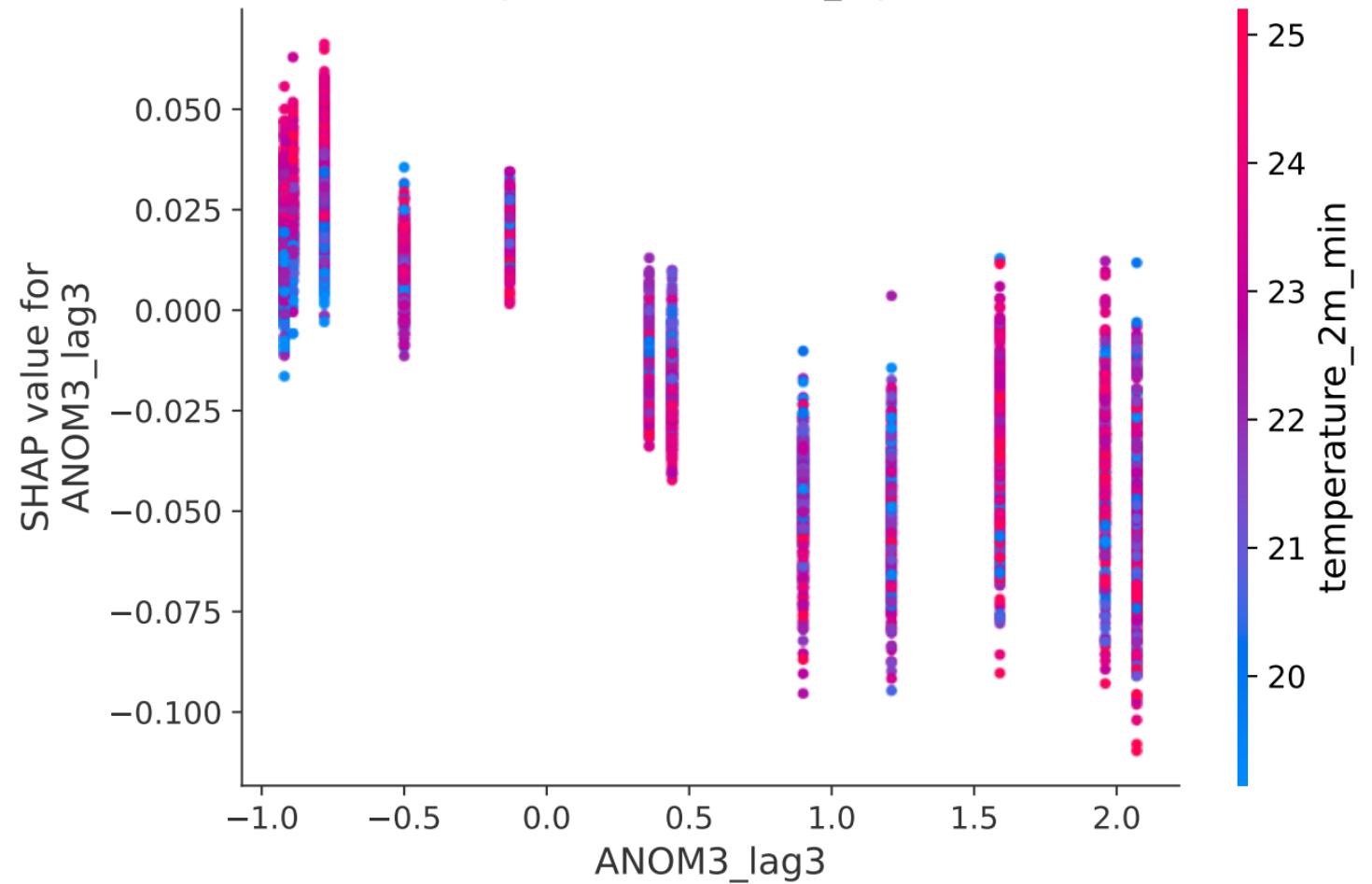
SHAP Dependence - ANOM3_lag1 - Class 1



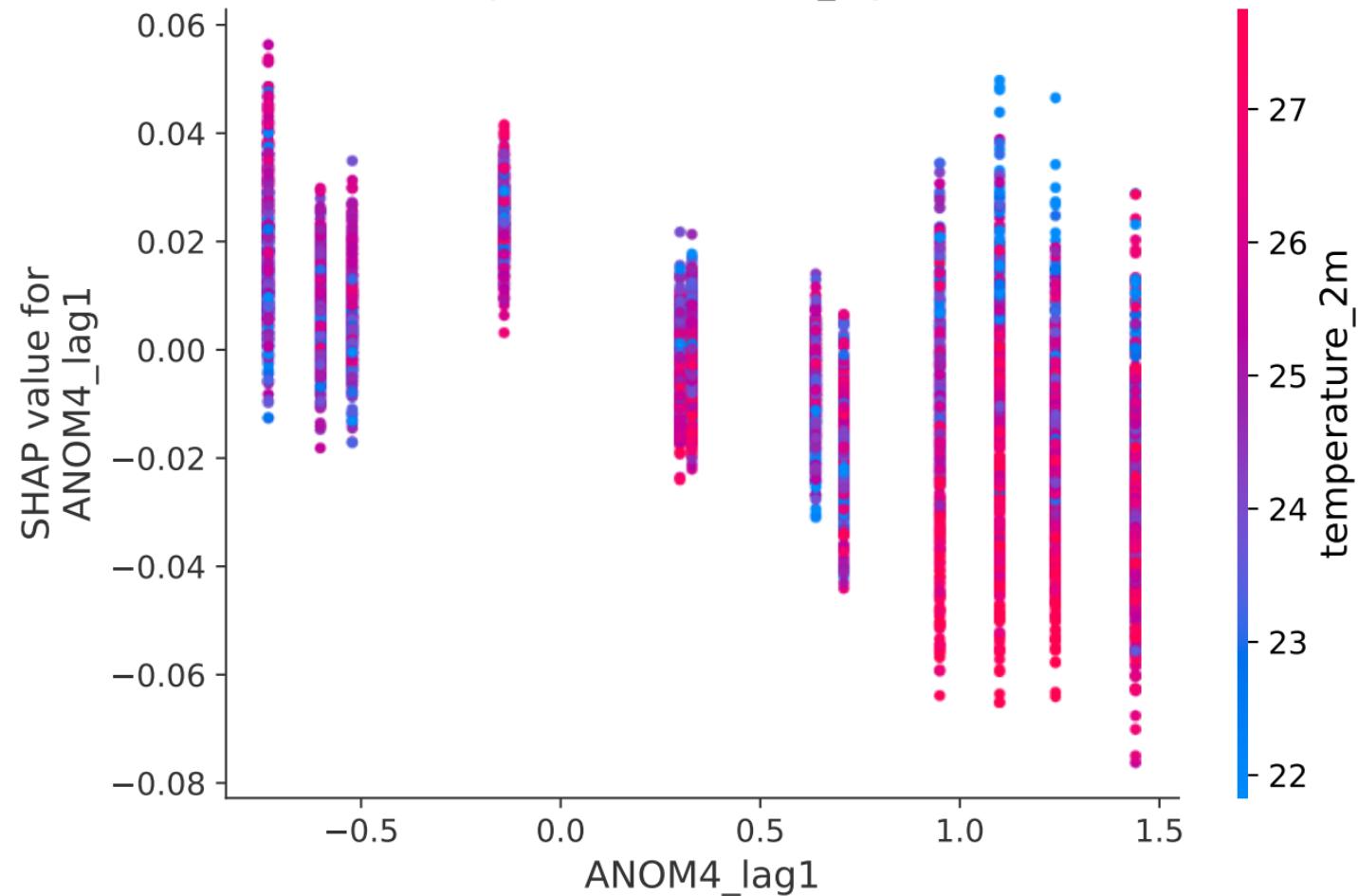
SHAP Dependence - ANOM3_lag2 - Class 1



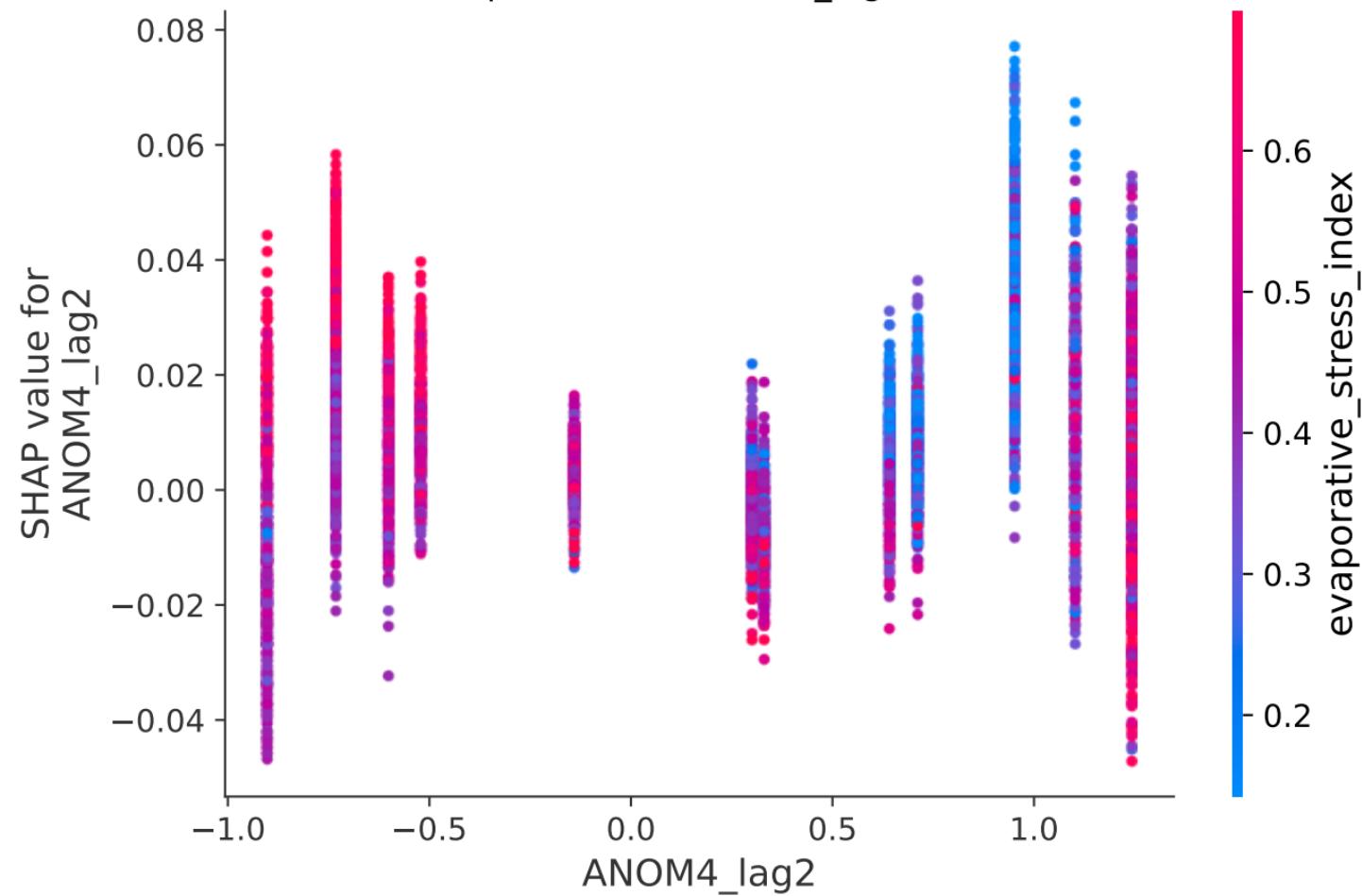
SHAP Dependence - ANOM3_lag3 - Class 1



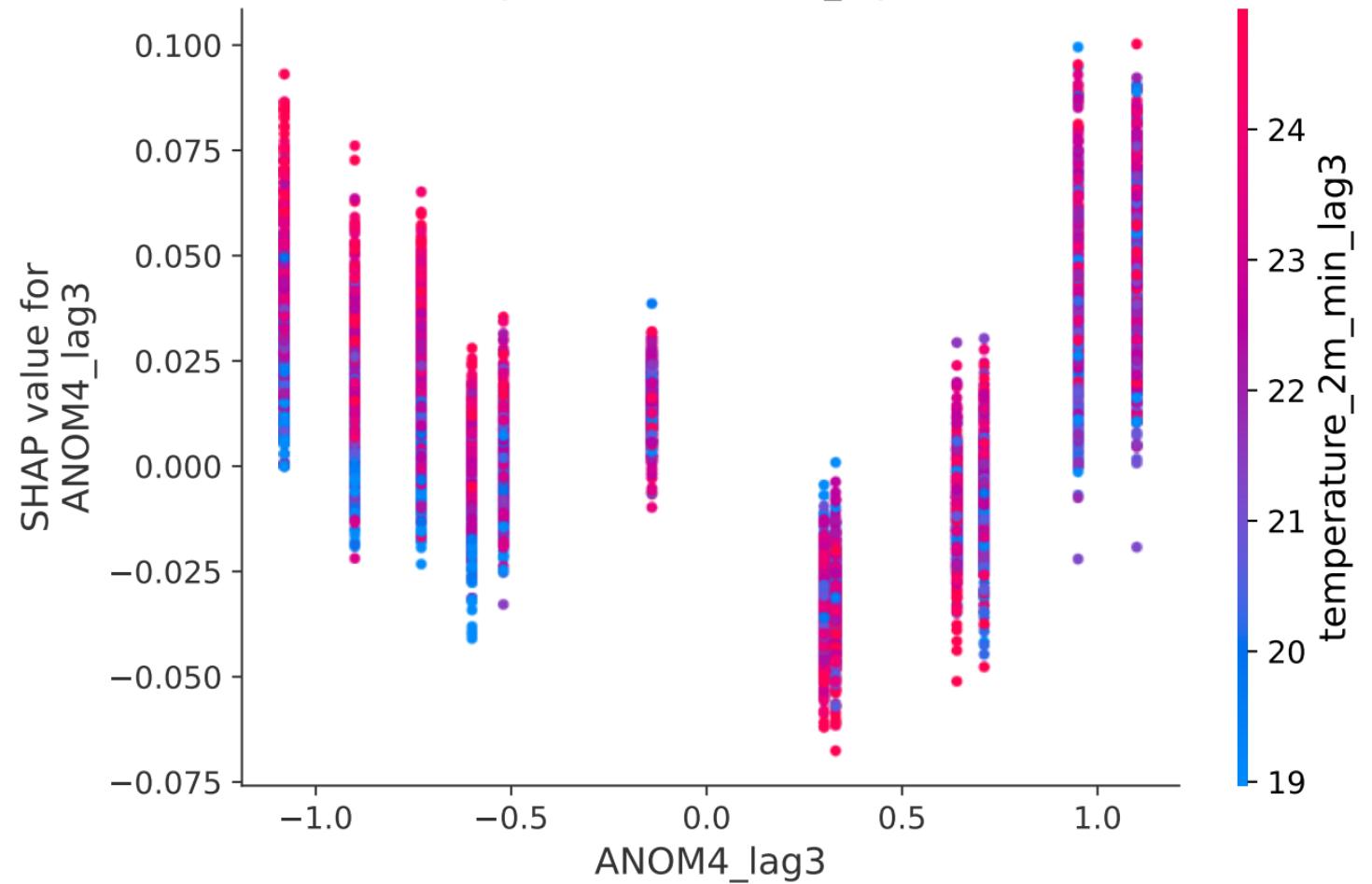
SHAP Dependence - ANOM4_lag1 - Class 1



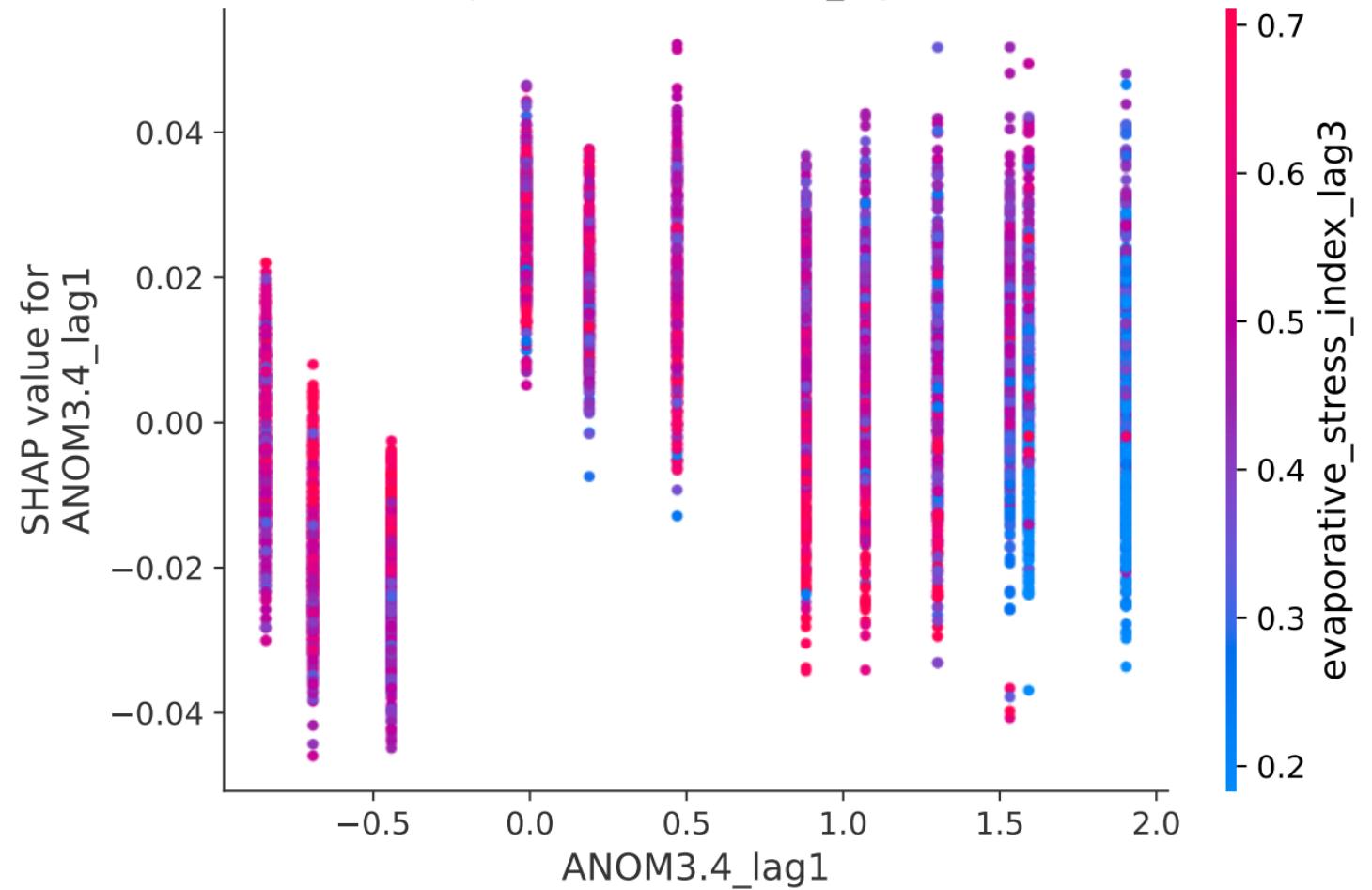
SHAP Dependence - ANOM4_lag2 - Class 1



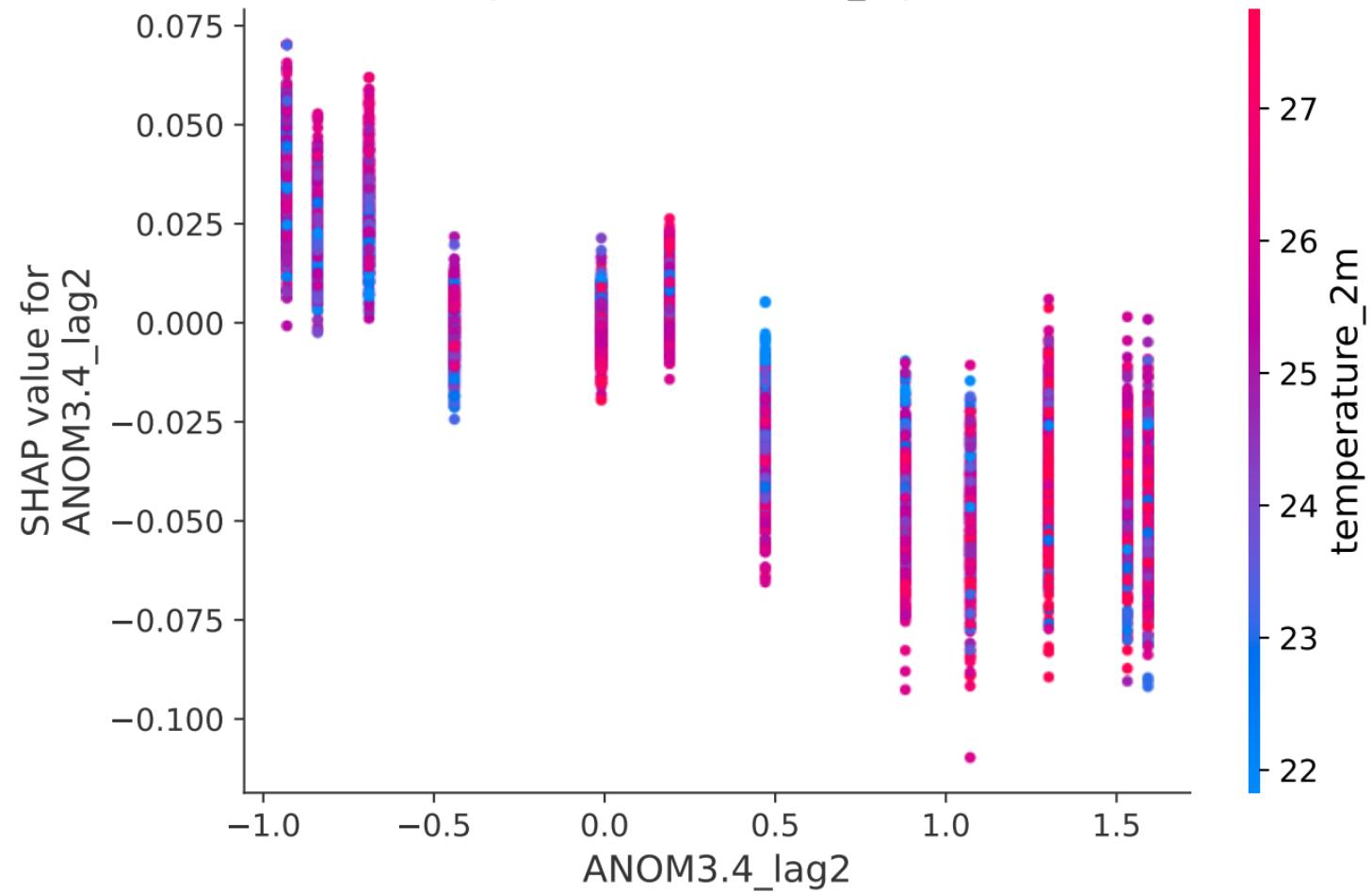
SHAP Dependence - ANOM4_lag3 - Class 1



SHAP Dependence - ANOM3.4_lag1 - Class 1

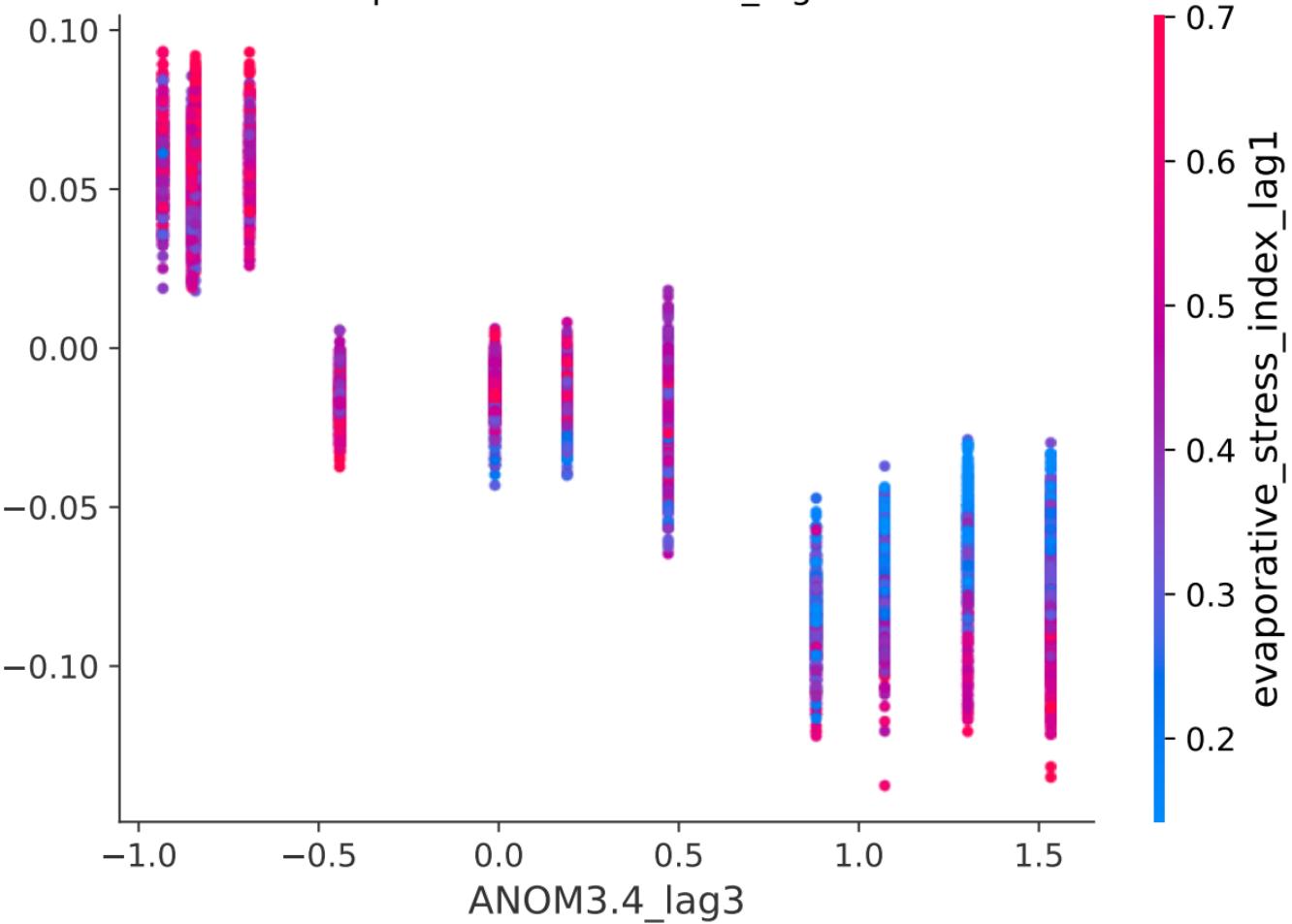


SHAP Dependence - ANOM3.4_lag2 - Class 1

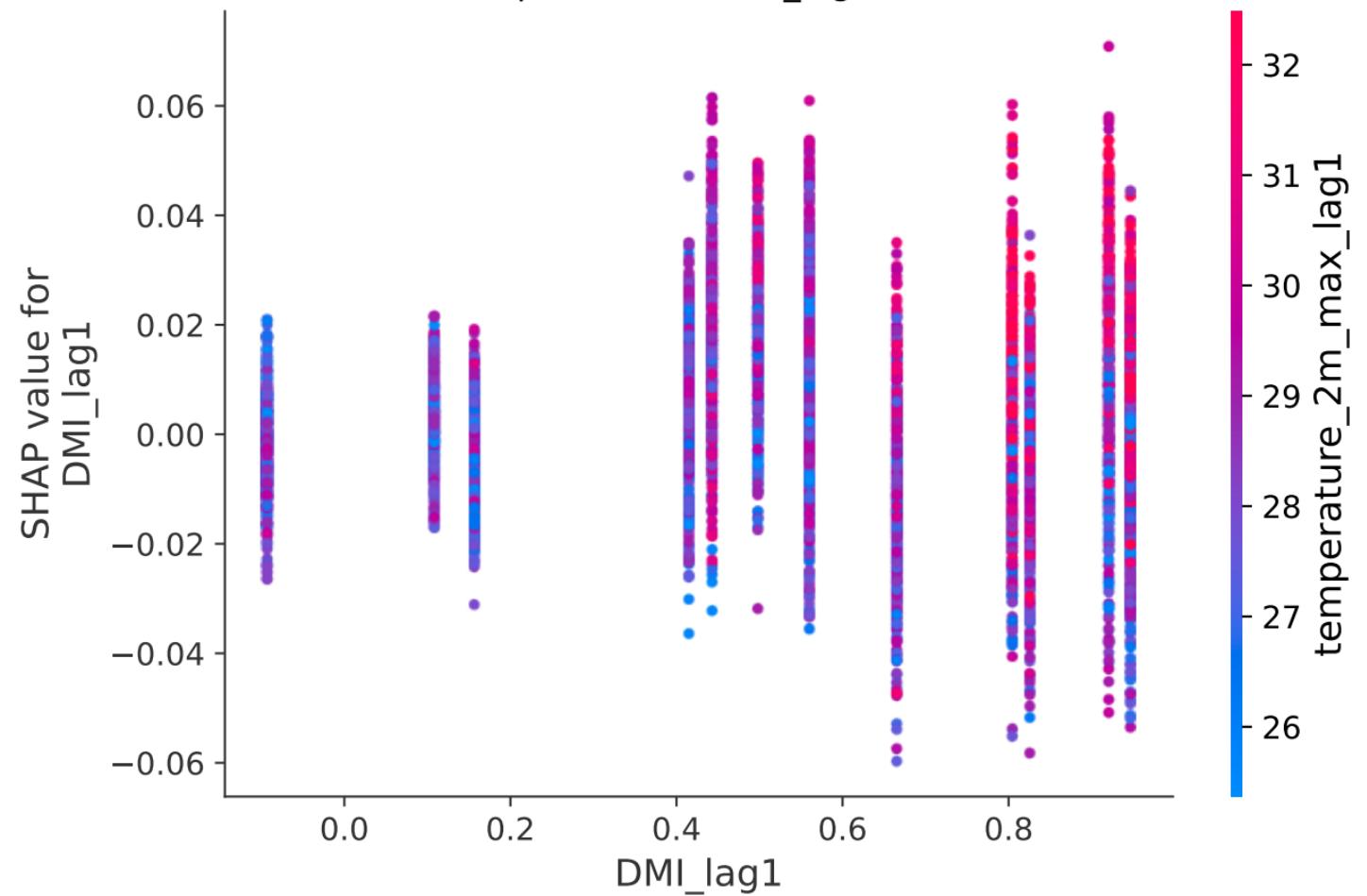


SHAP Dependence - ANOM3.4_lag3 - Class 1

SHAP value for
ANOM3.4_lag3



SHAP Dependence - DMI_lag1 - Class 1



SHAP Dependence - DMI_lag2 - Class 1

SHAP value for
DMI_lag2

0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06

-0.2 0.0 0.2 0.4 0.6 0.8 1.0

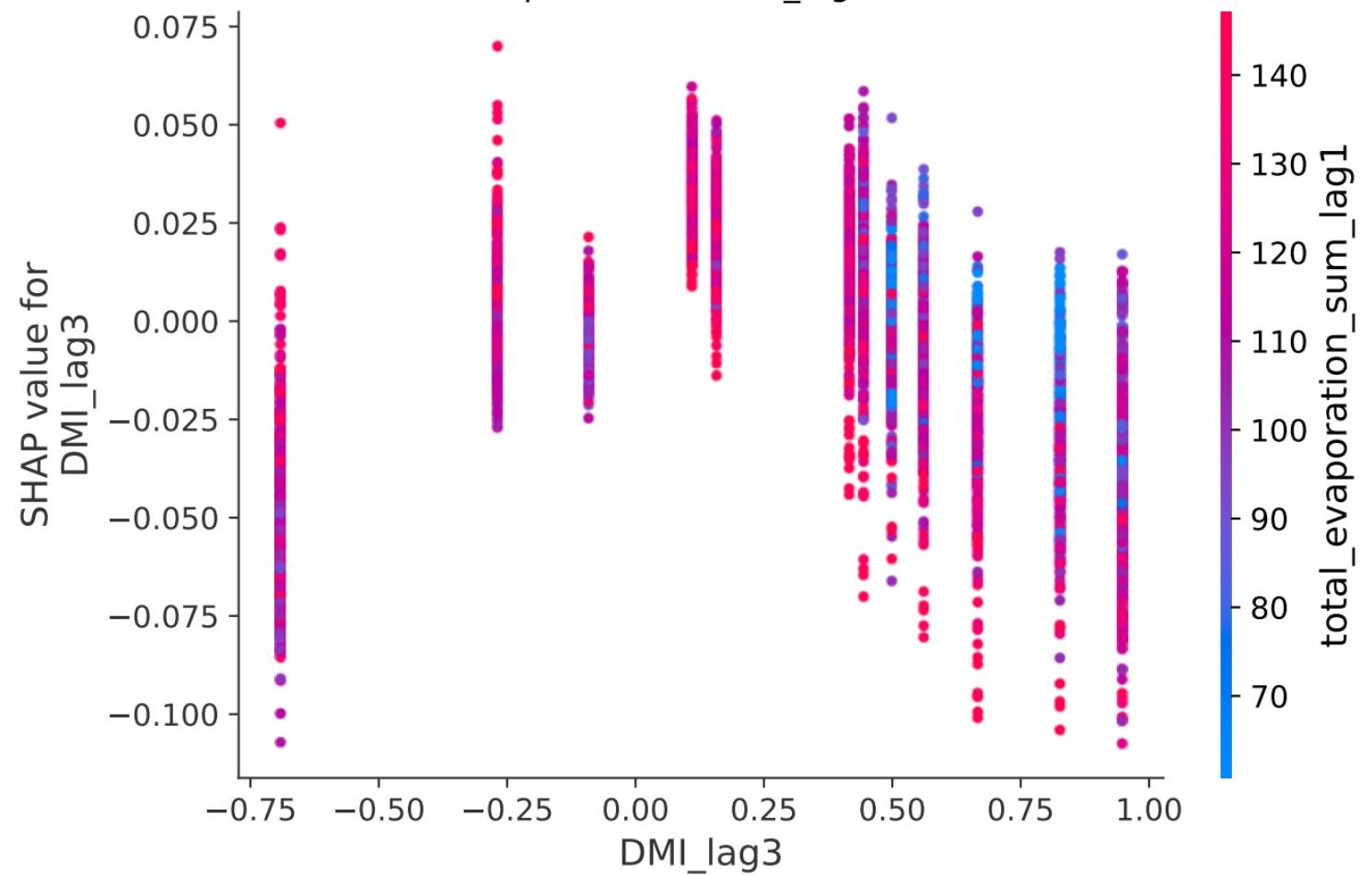
DMI_lag2

27
26
25
24
23
22

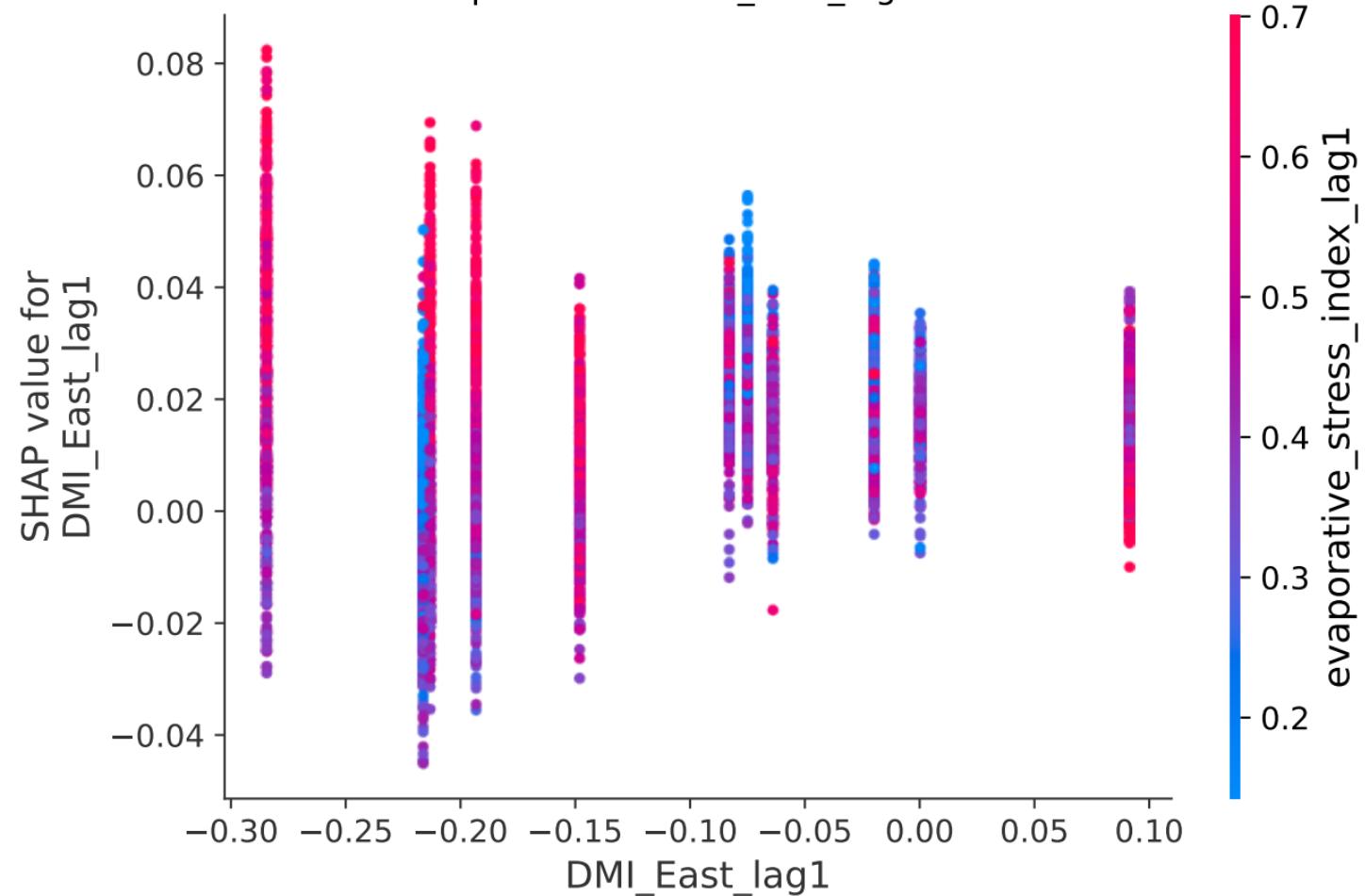
temperature_2m



SHAP Dependence - DMI_lag3 - Class 1

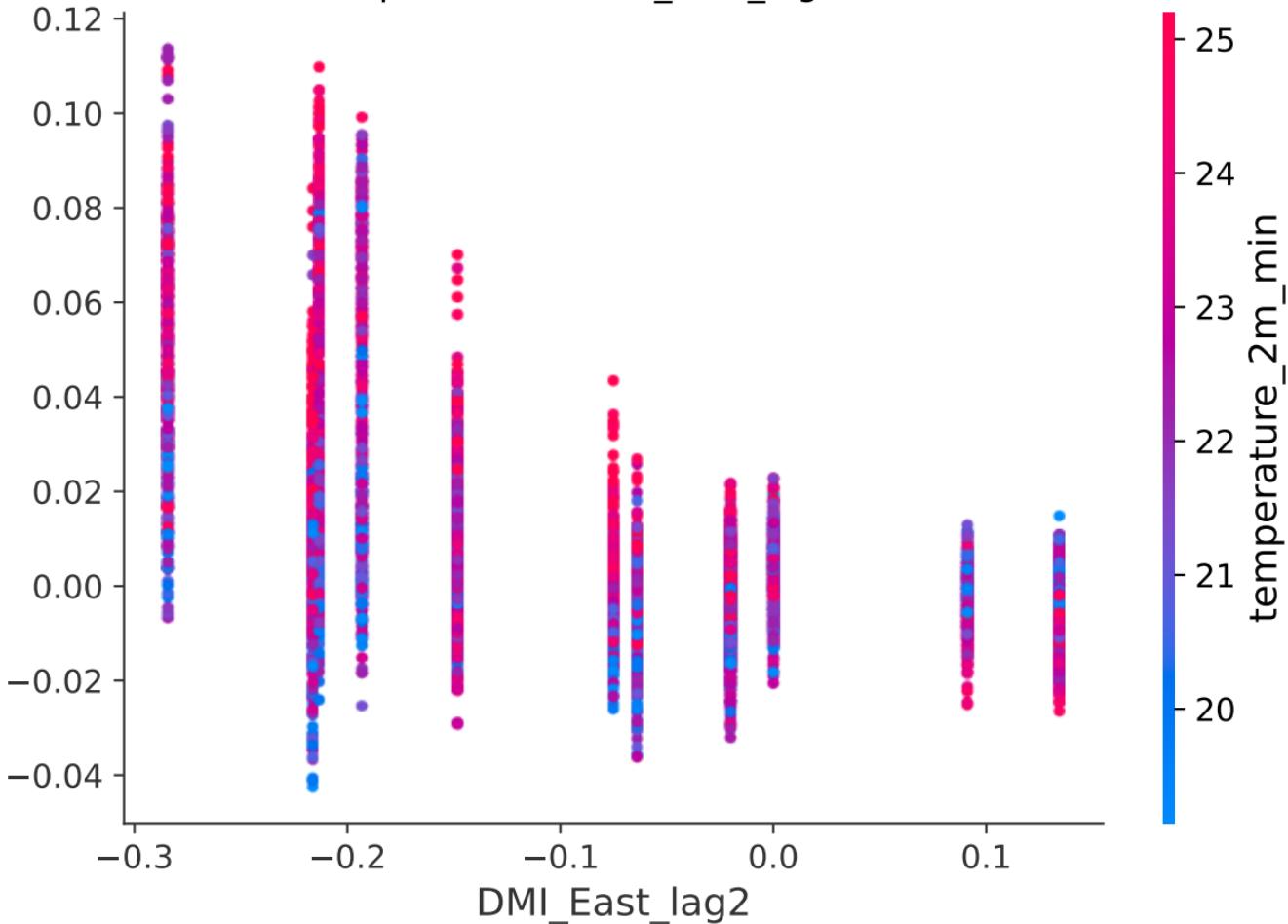


SHAP Dependence - DMI_East_lag1 - Class 1

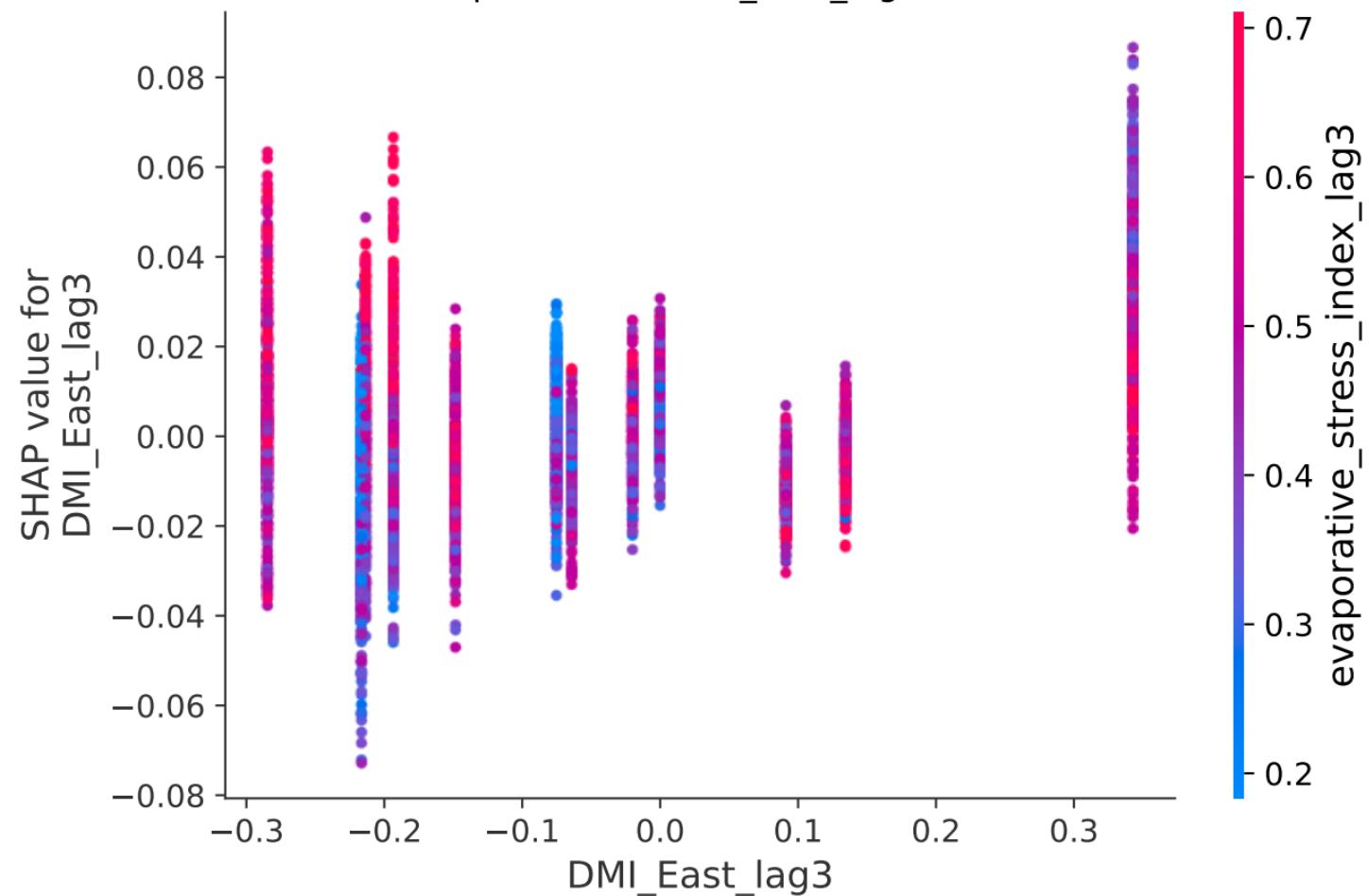


SHAP Dependence - DMI_East_lag2 - Class 1

SHAP value for
DMI_East_lag2



SHAP Dependence - DMI_East_lag3 - Class 1



SHAP Beeswarm - Class 2

High

Feature value

Low

Class_50

Class_40

Class_30

Class_80

Class_20

Class_60

temperature_2m_max

ANOM4

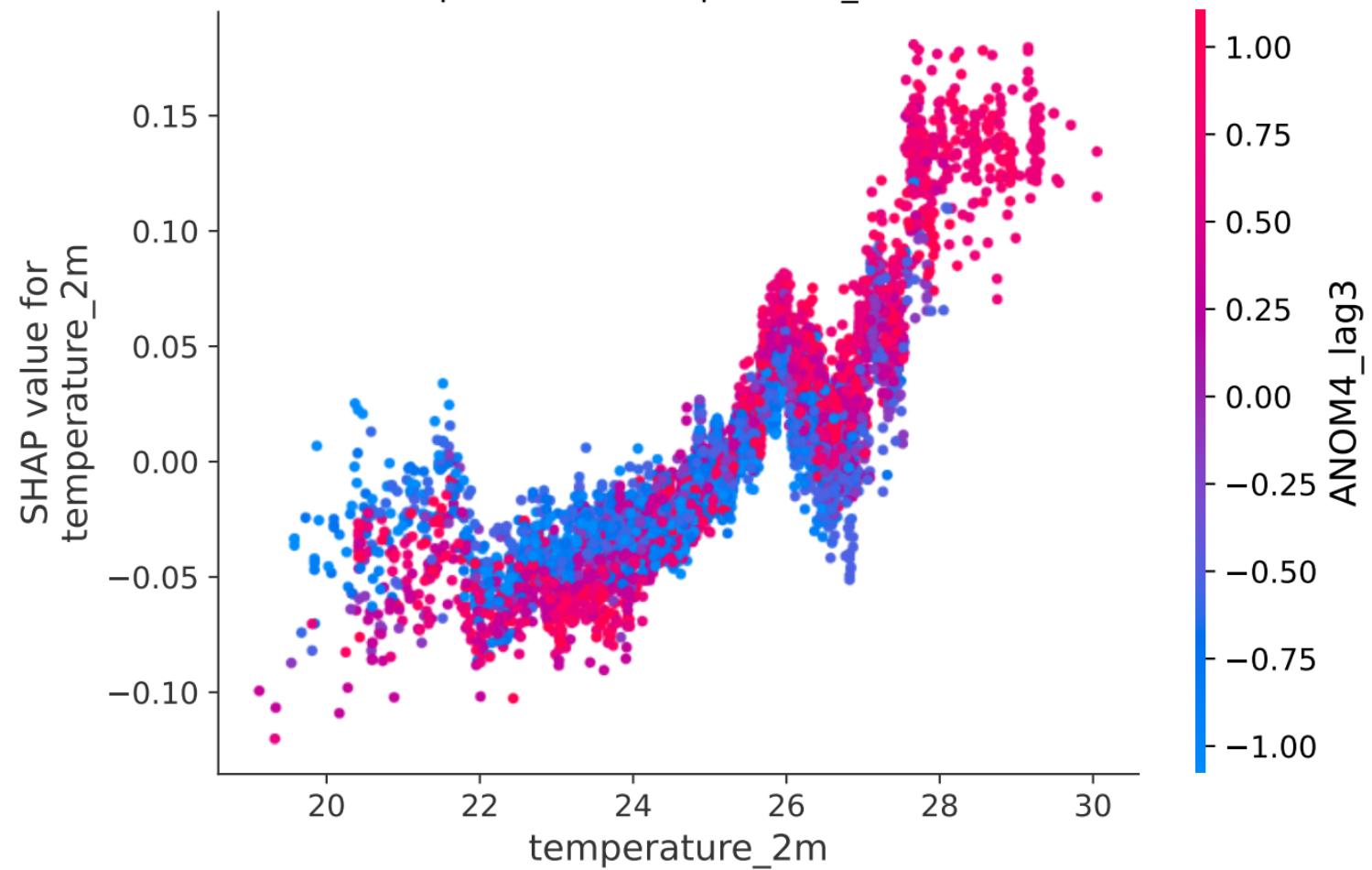
Class_95

Sum of 81 other features

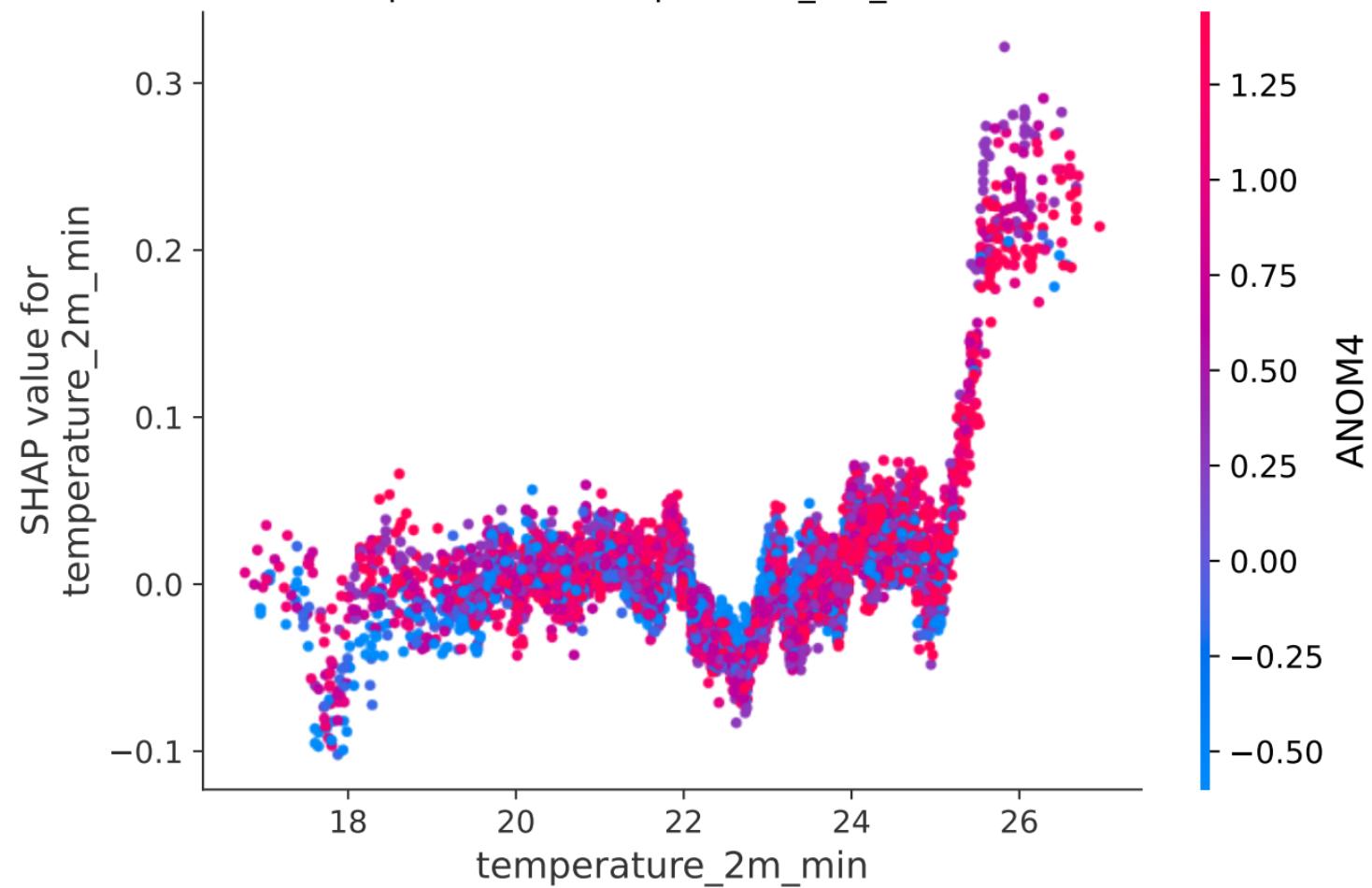
-1.5 -1.0 -0.5 0.0 0.5 1.0 1.5

SHAP value (impact on model output)

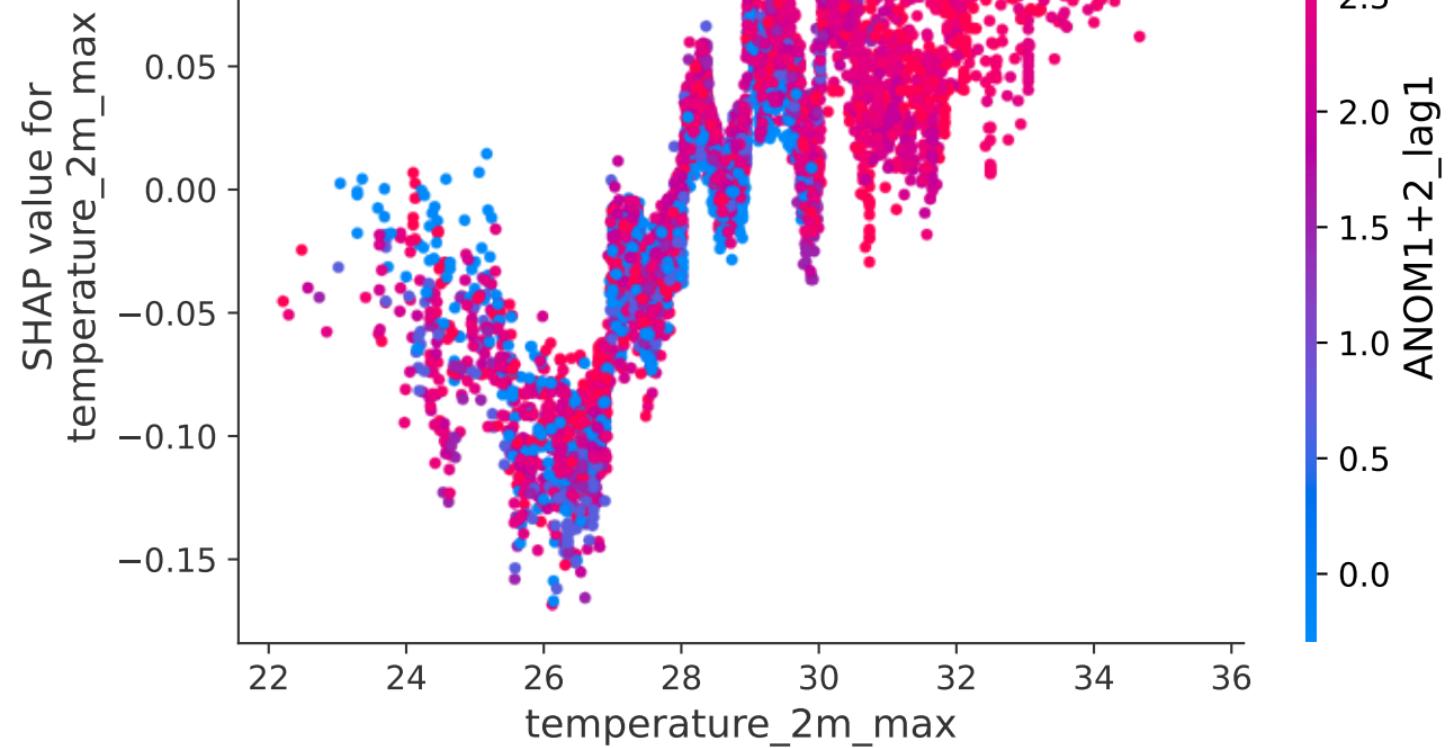
SHAP Dependence - temperature_2m - Class 2



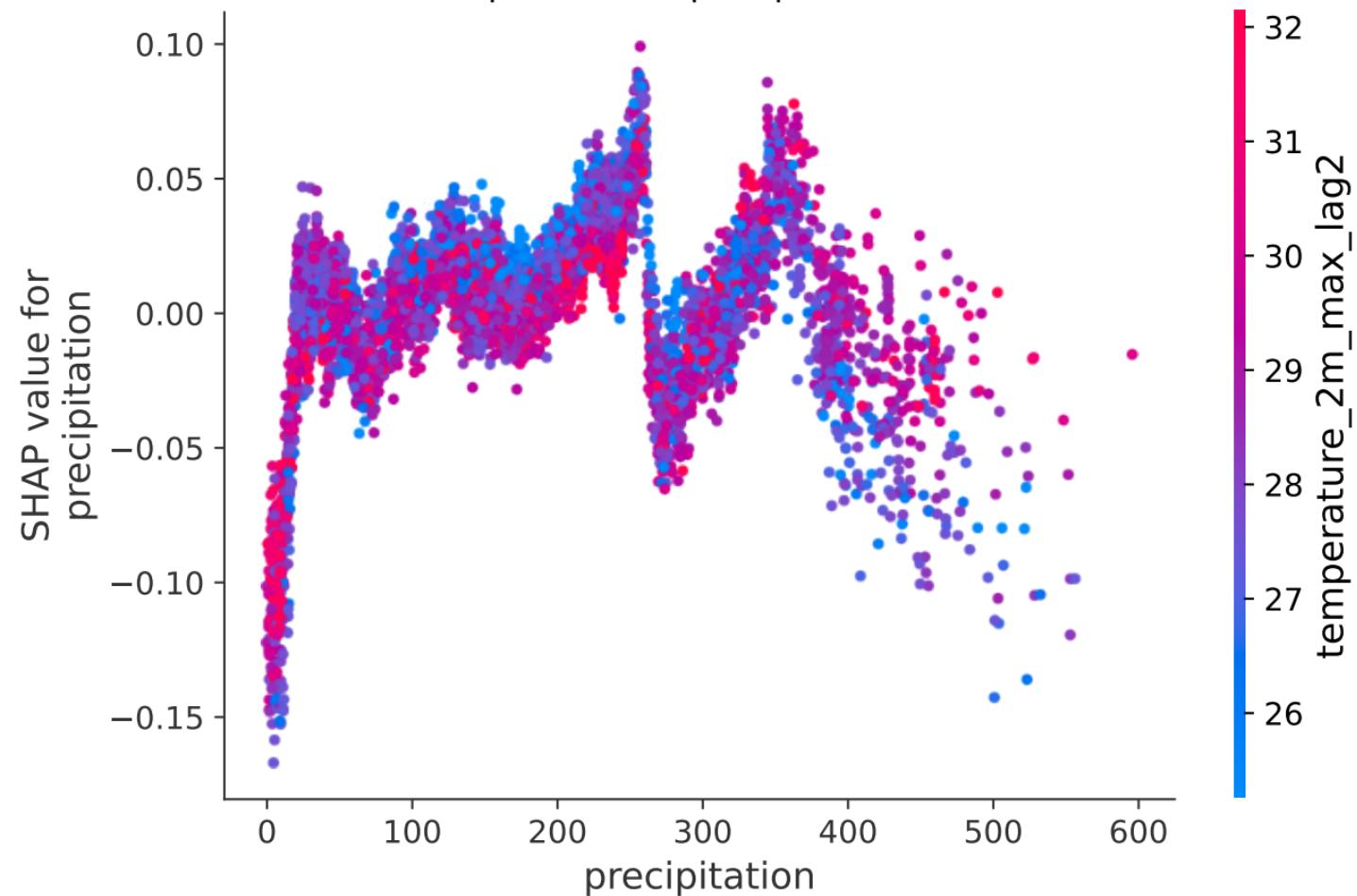
SHAP Dependence - temperature_2m_min - Class 2



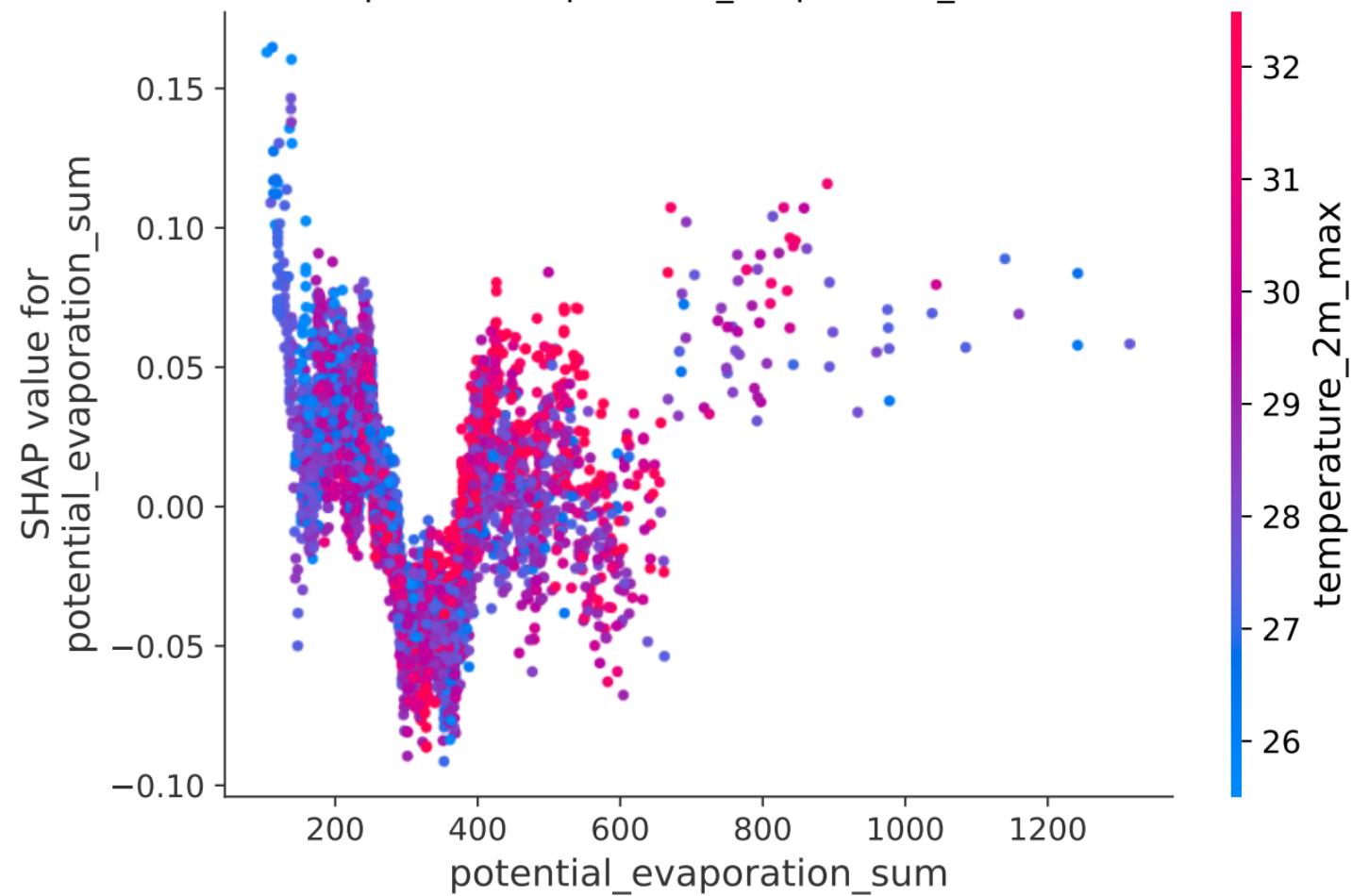
SHAP Dependence - temperature_2m_max - Class 2



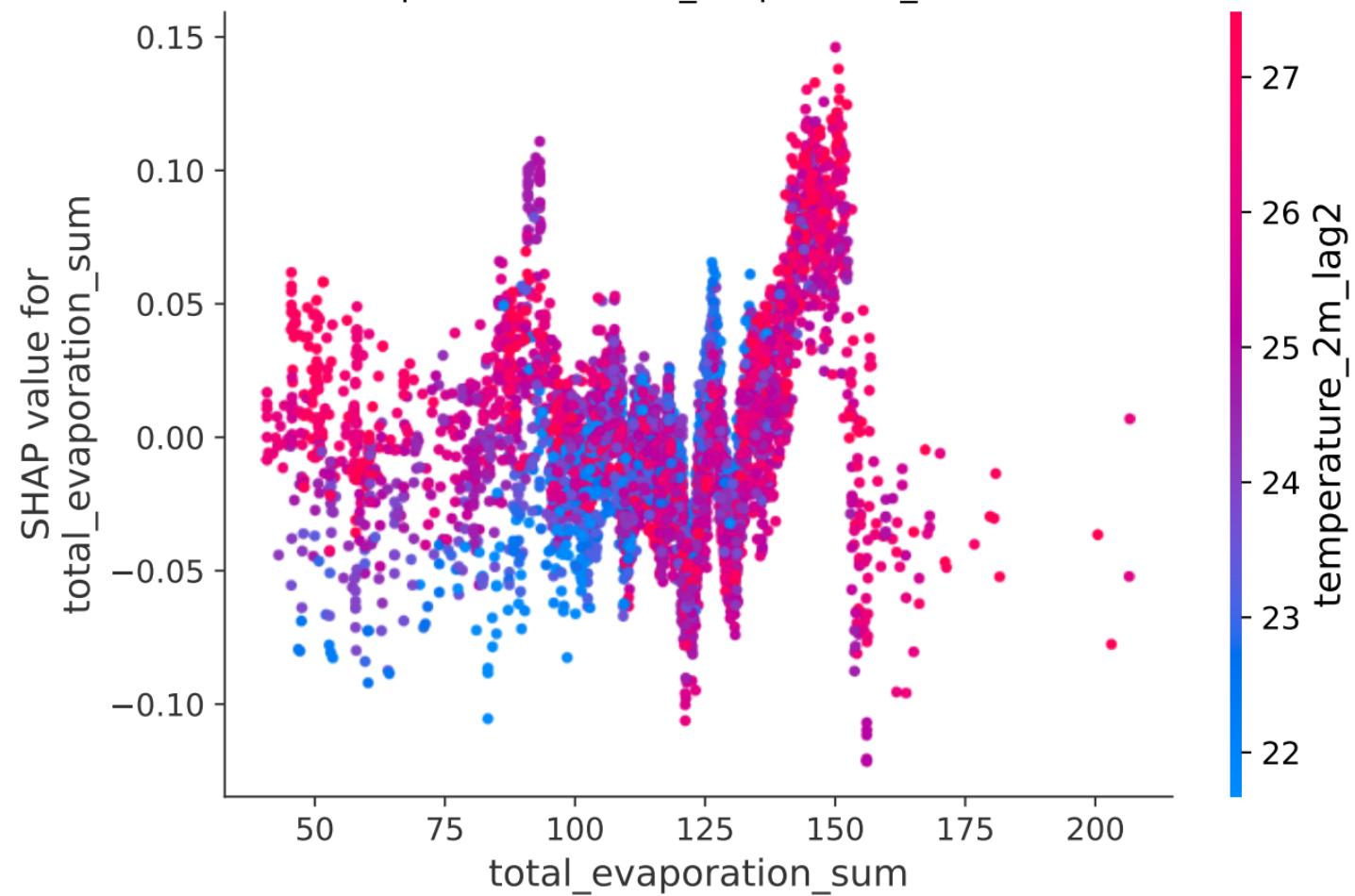
SHAP Dependence - precipitation - Class 2



SHAP Dependence - potential_evaporation_sum - Class 2

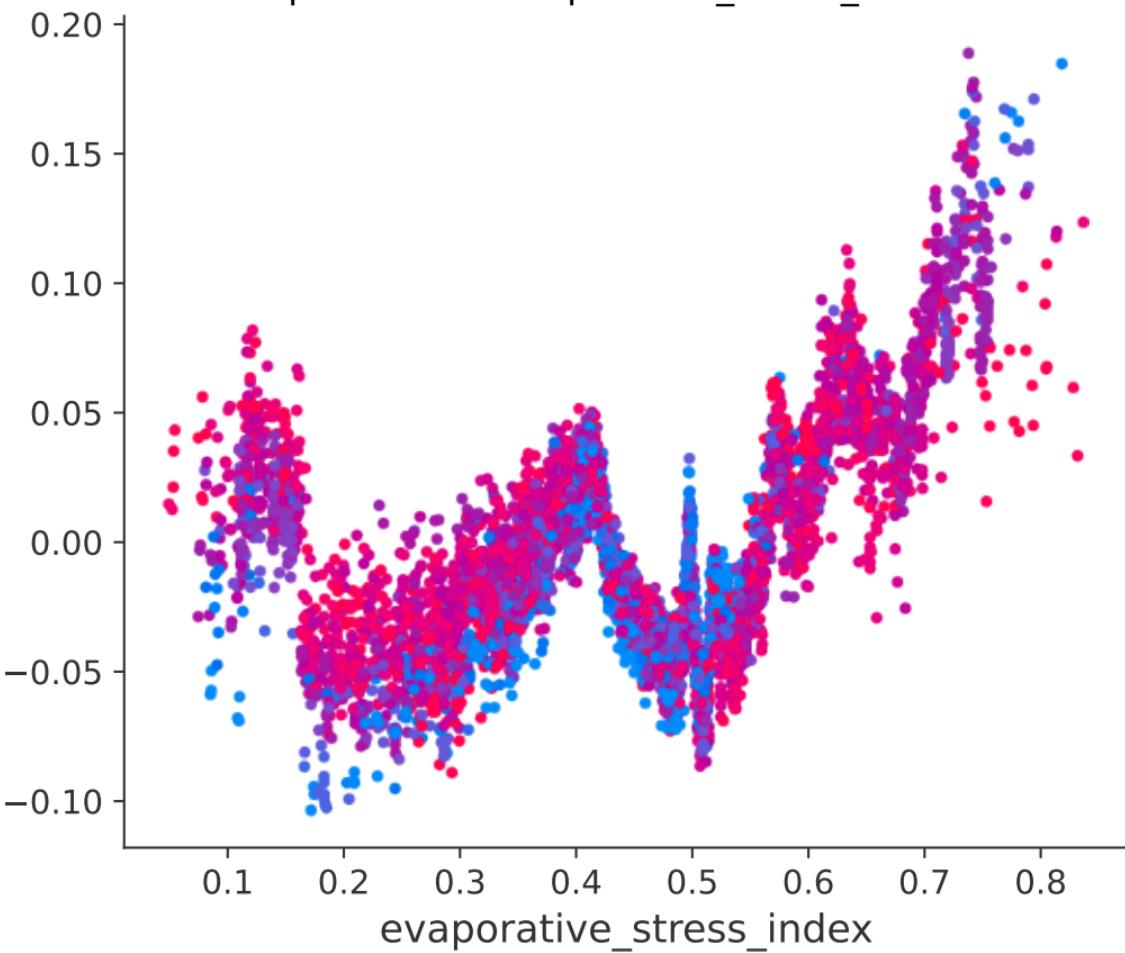


SHAP Dependence - total_evaporation_sum - Class 2



SHAP Dependence - evaporative_stress_index - Class 2

SHAP value for
evaporative_stress_index

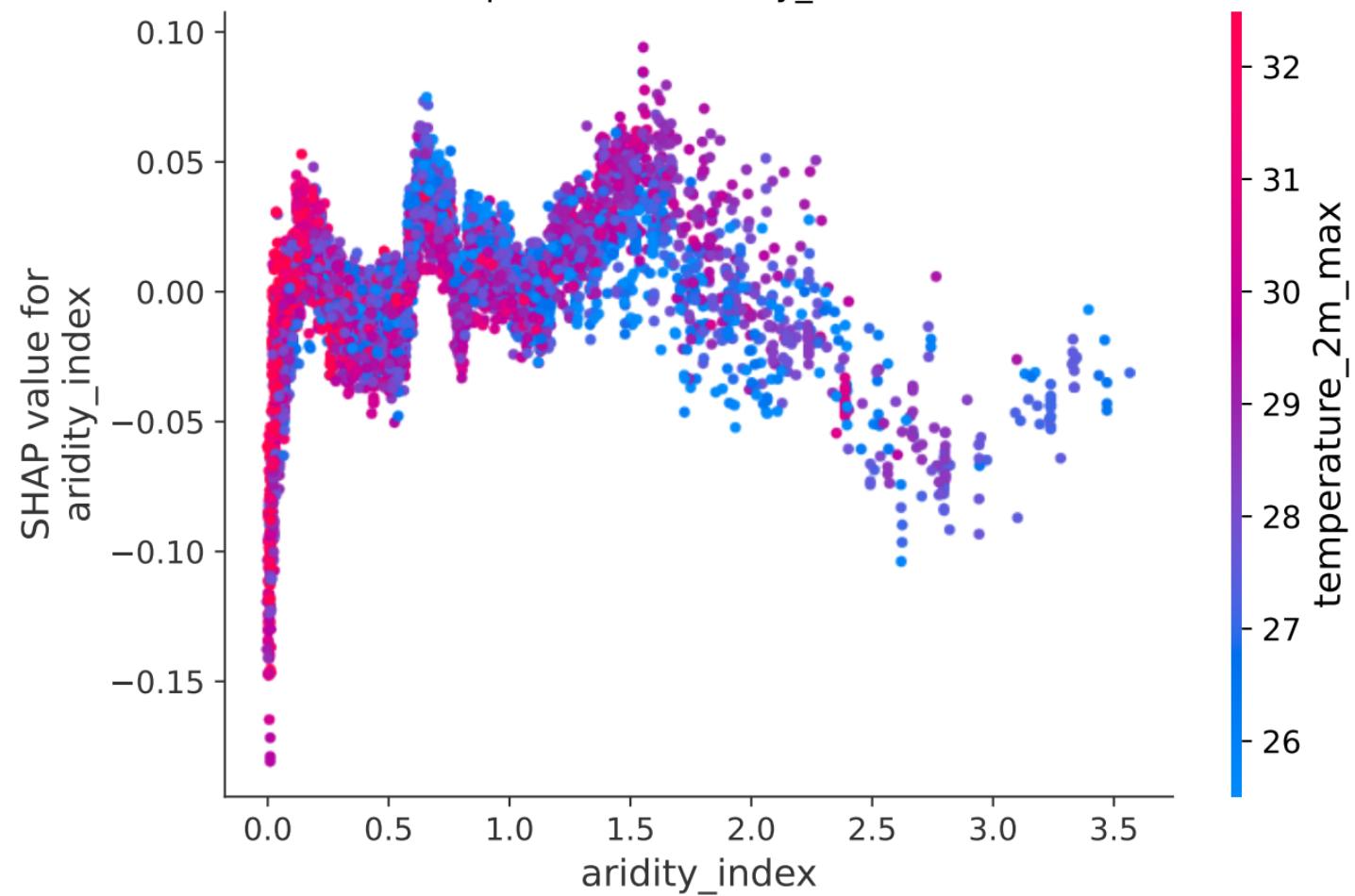


temperature_2m_min_lag1

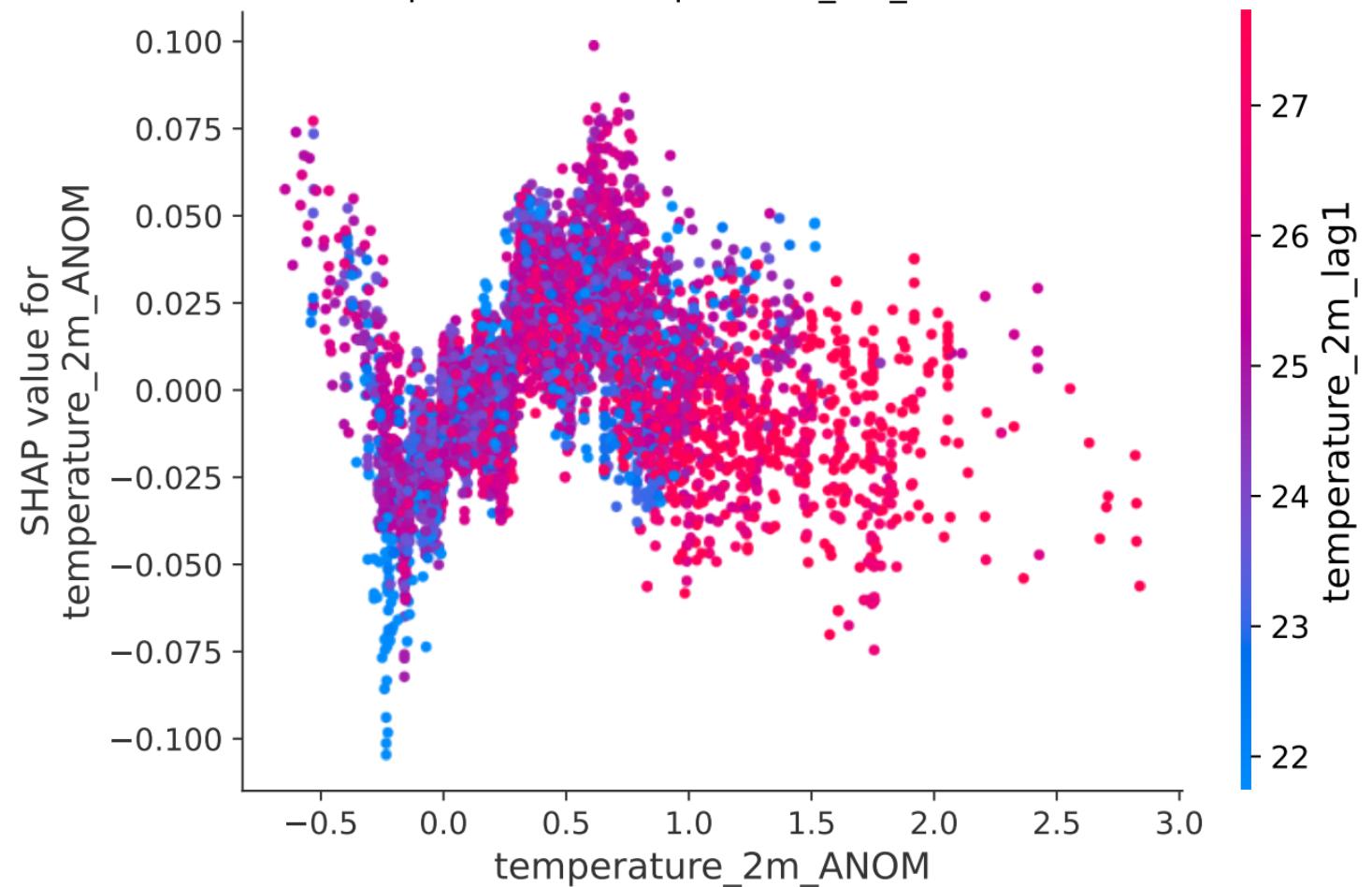
25
24
23
22
21
20

evaporative_stress_index

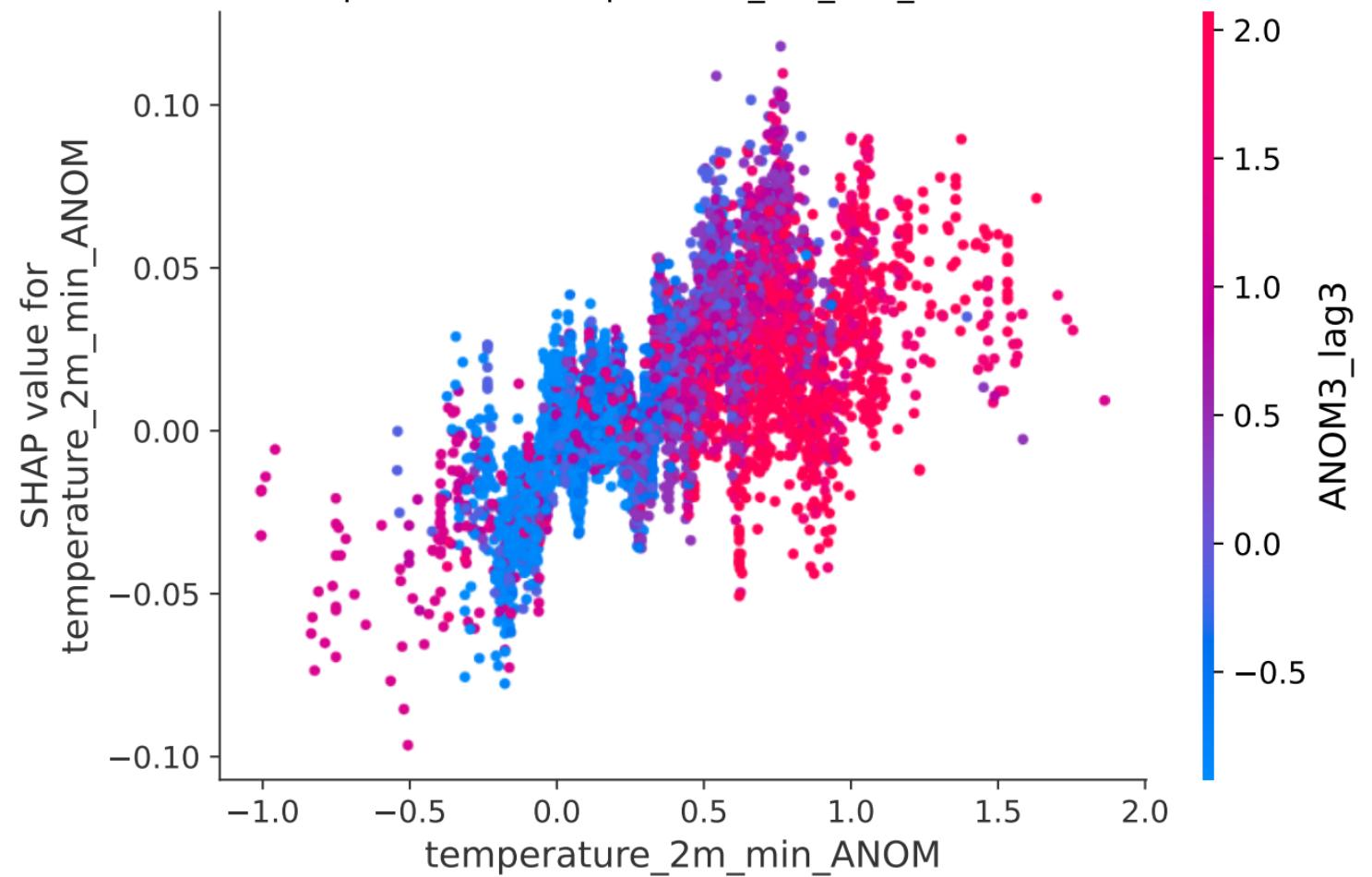
SHAP Dependence - aridity_index - Class 2

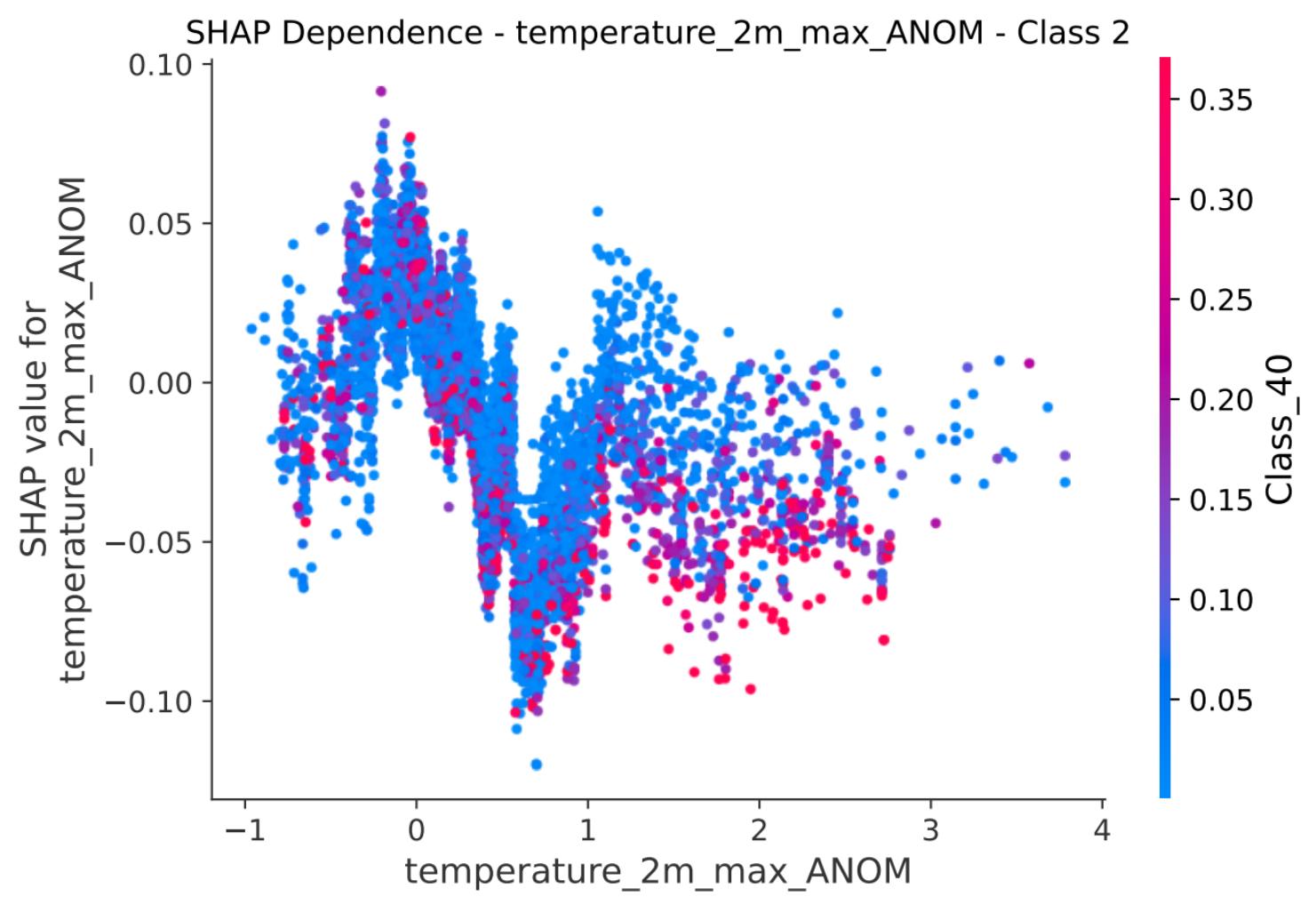


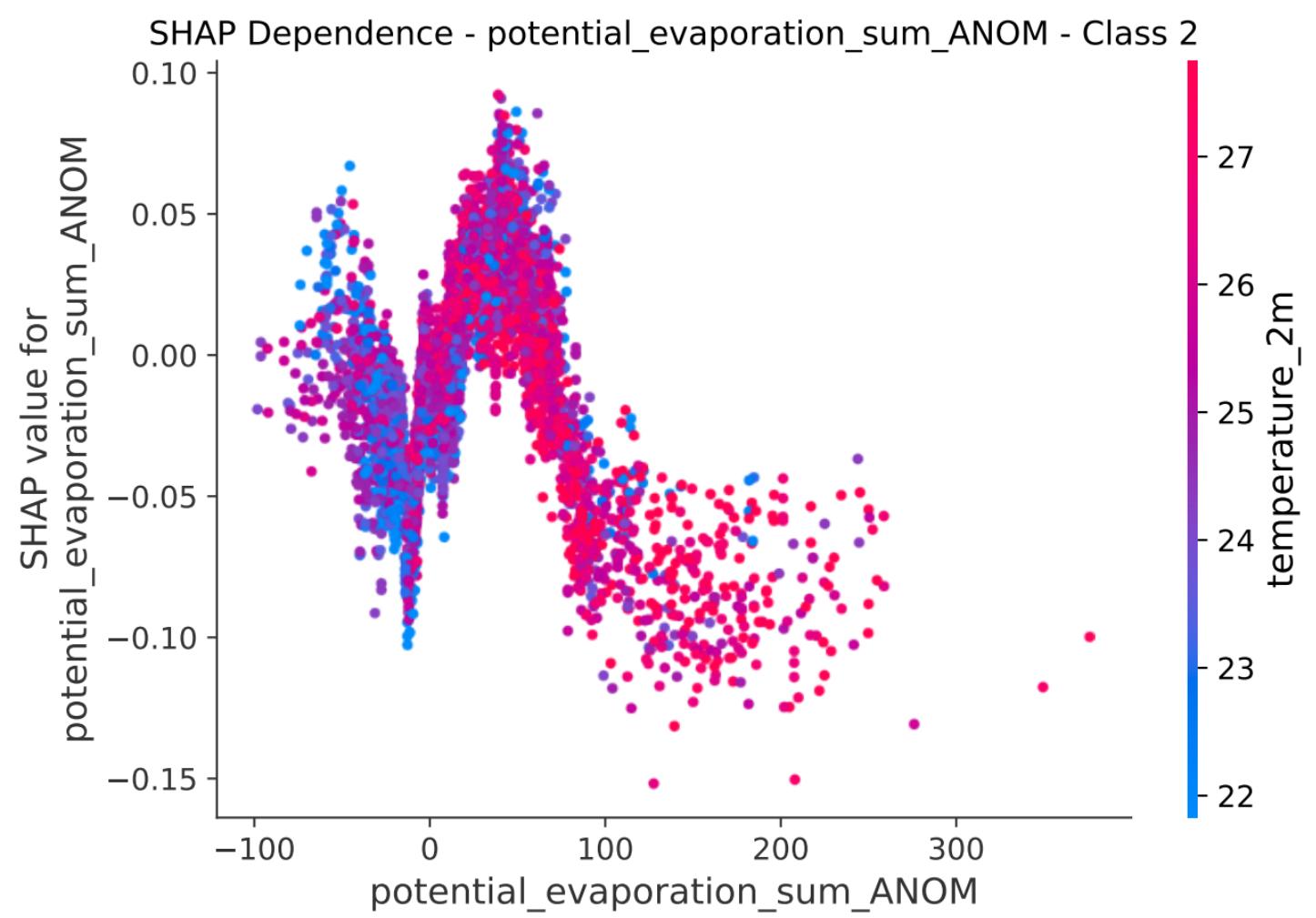
SHAP Dependence - temperature_2m_ANOM - Class 2



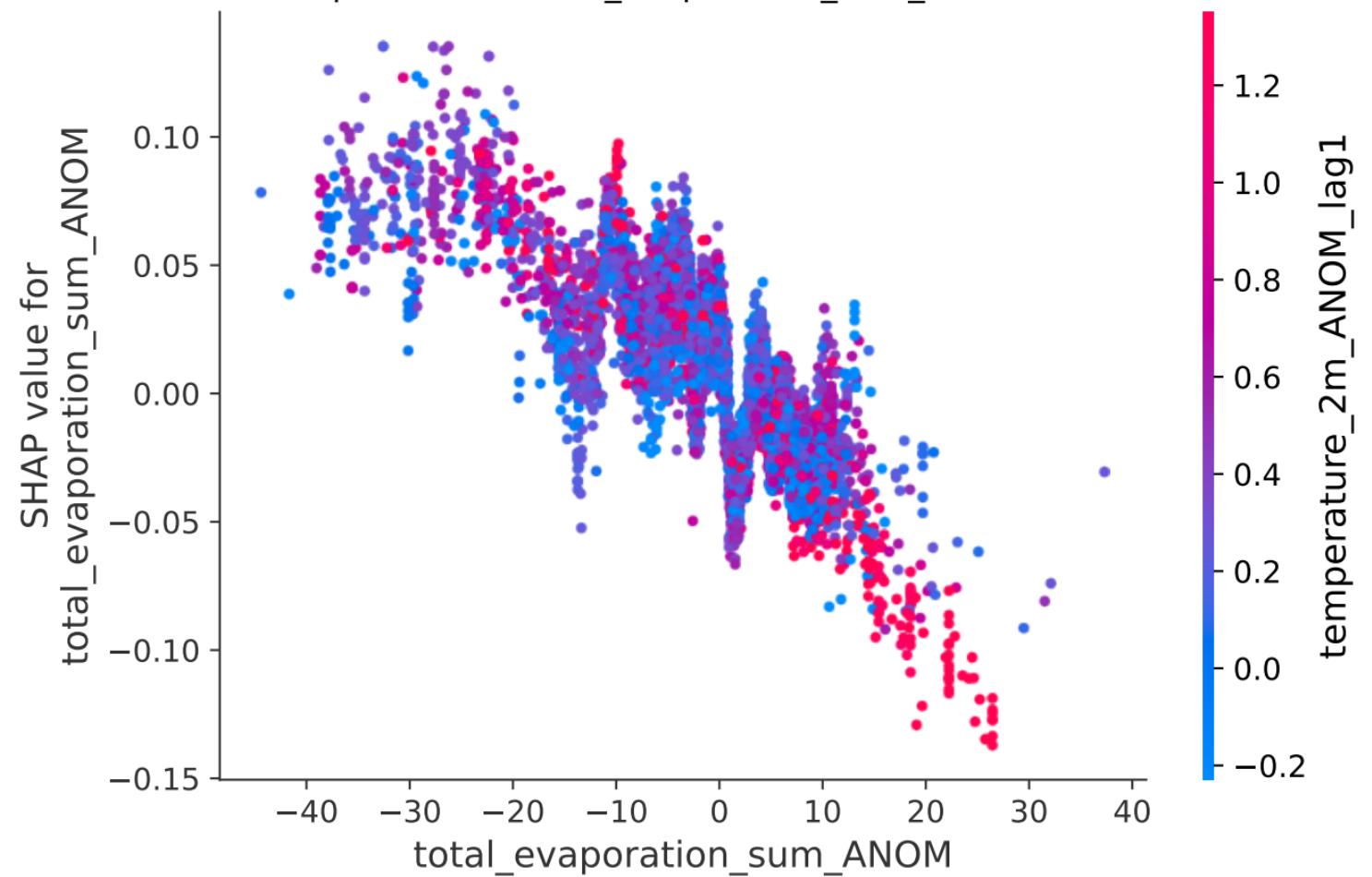
SHAP Dependence - temperature_2m_min_ANOM - Class 2



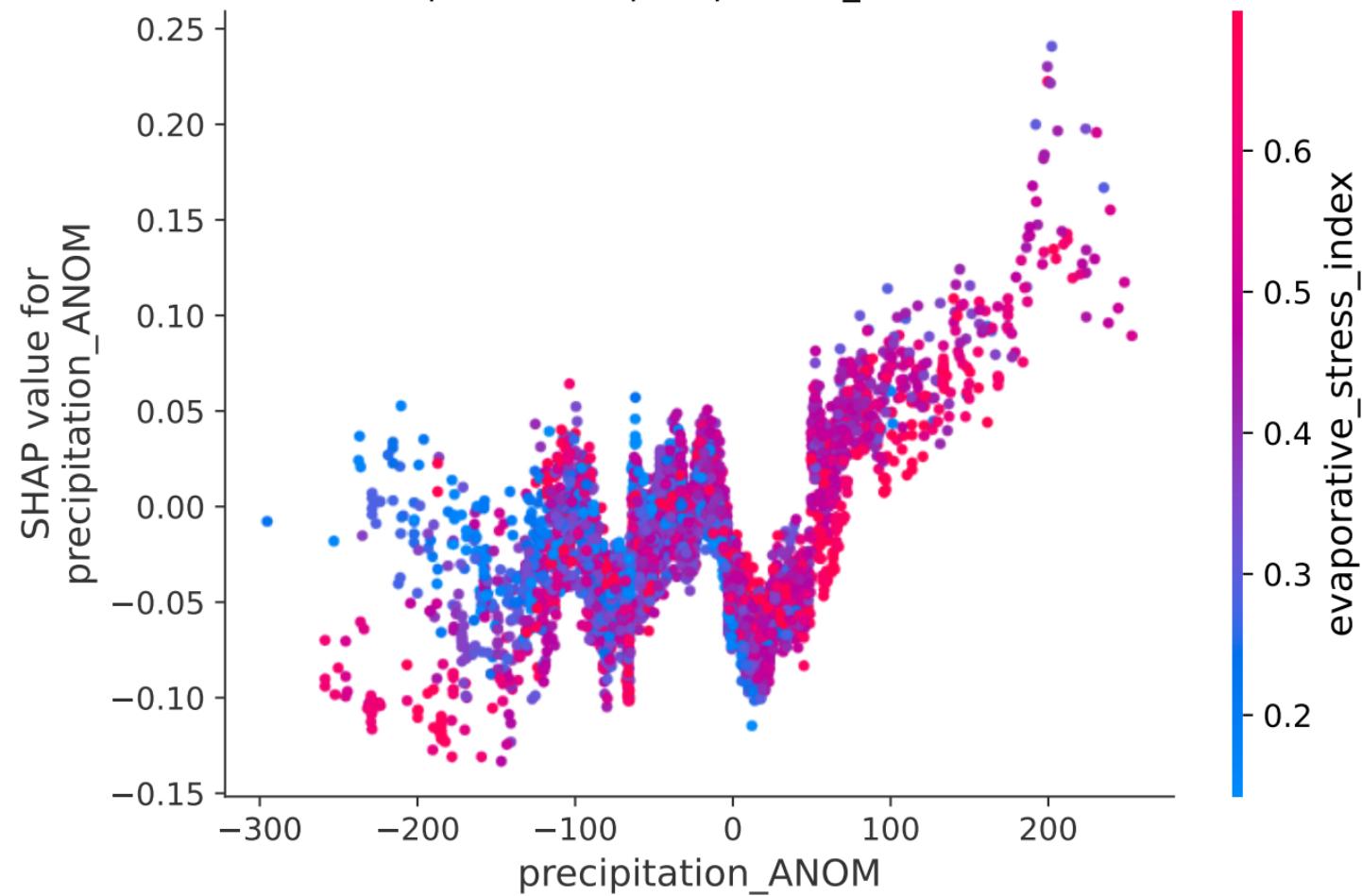




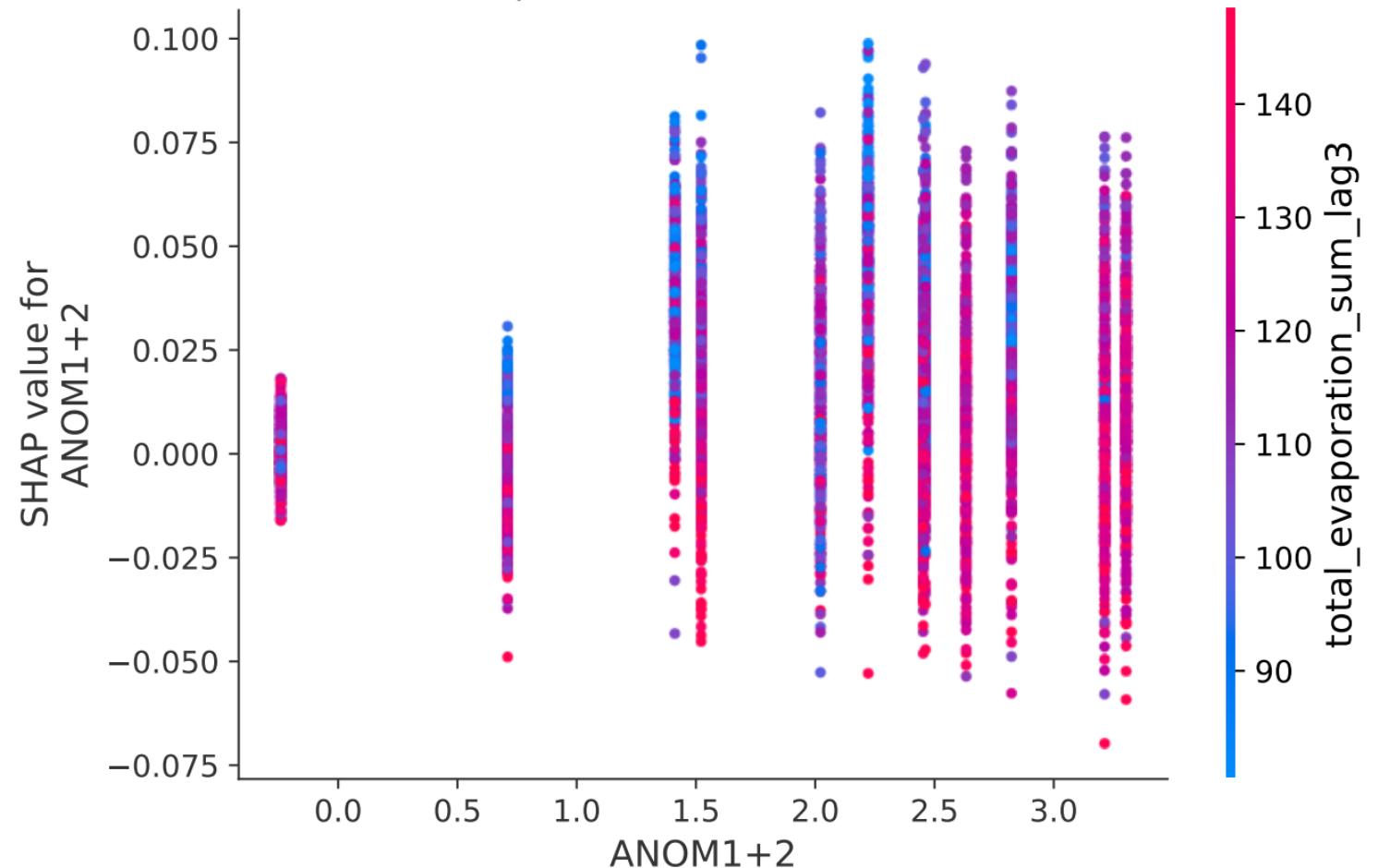
SHAP Dependence - total_evaporation_sum_ANOM - Class 2



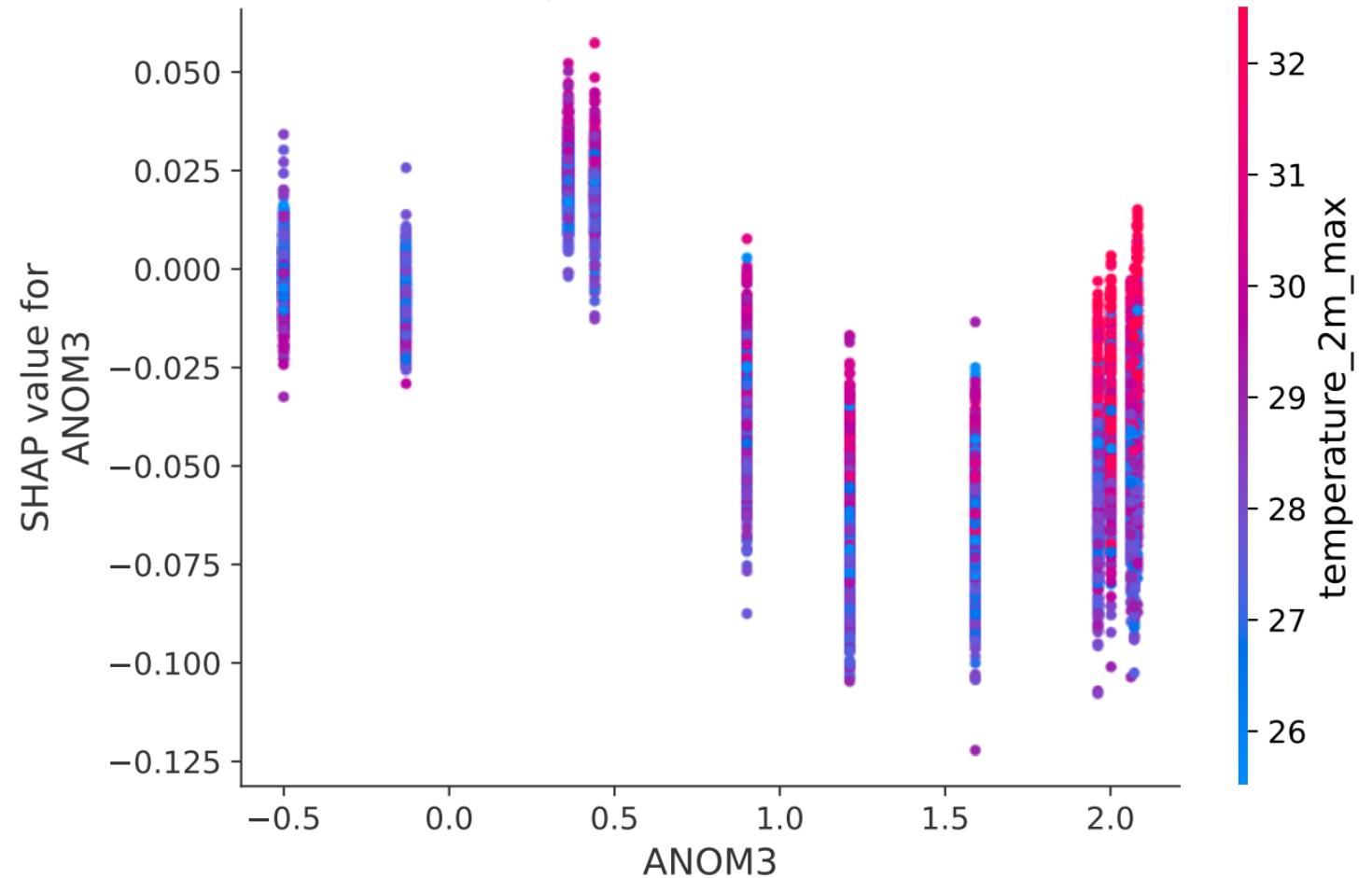
SHAP Dependence - precipitation_ANOM - Class 2



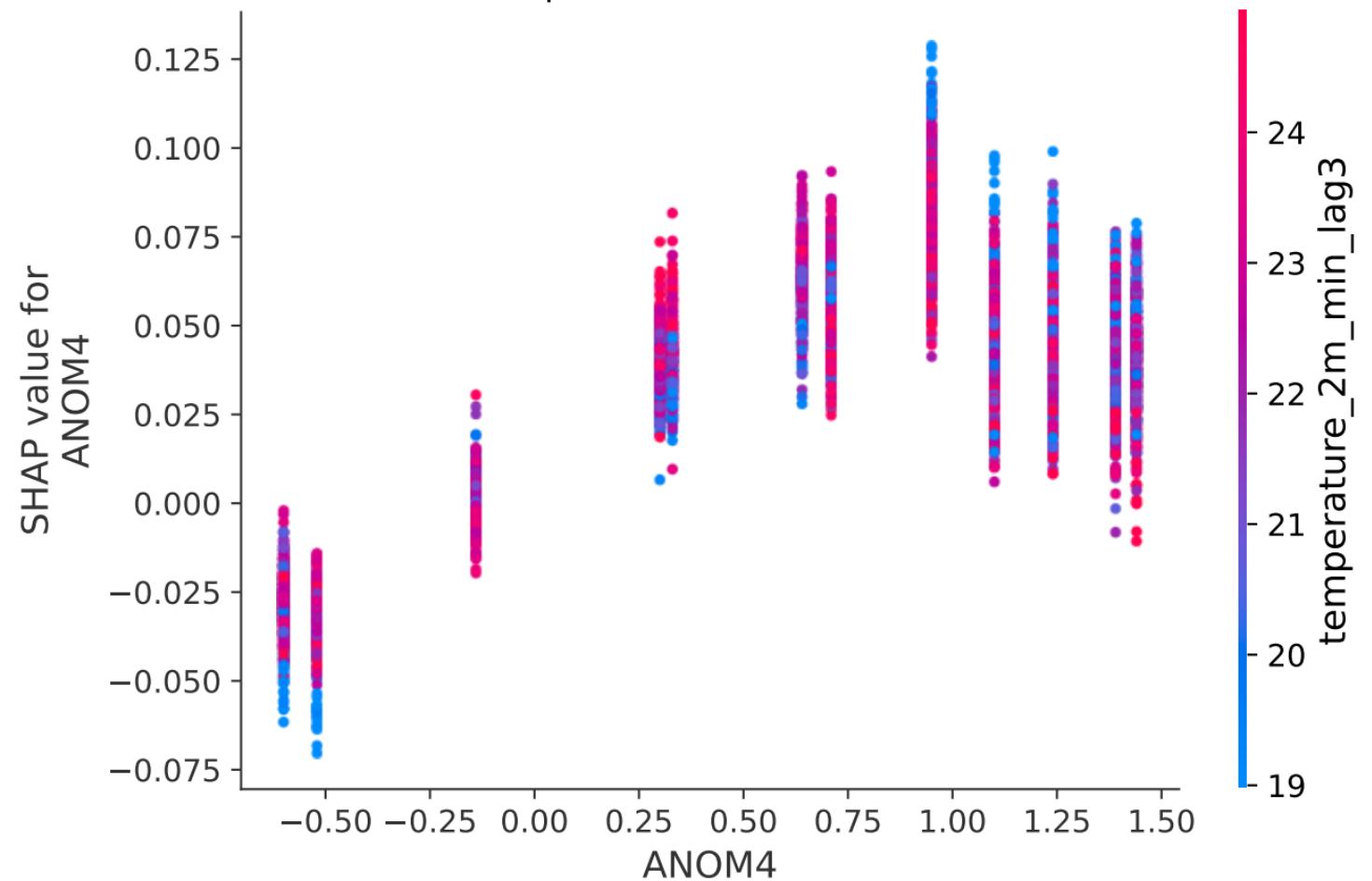
SHAP Dependence - ANOM1+2 - Class 2



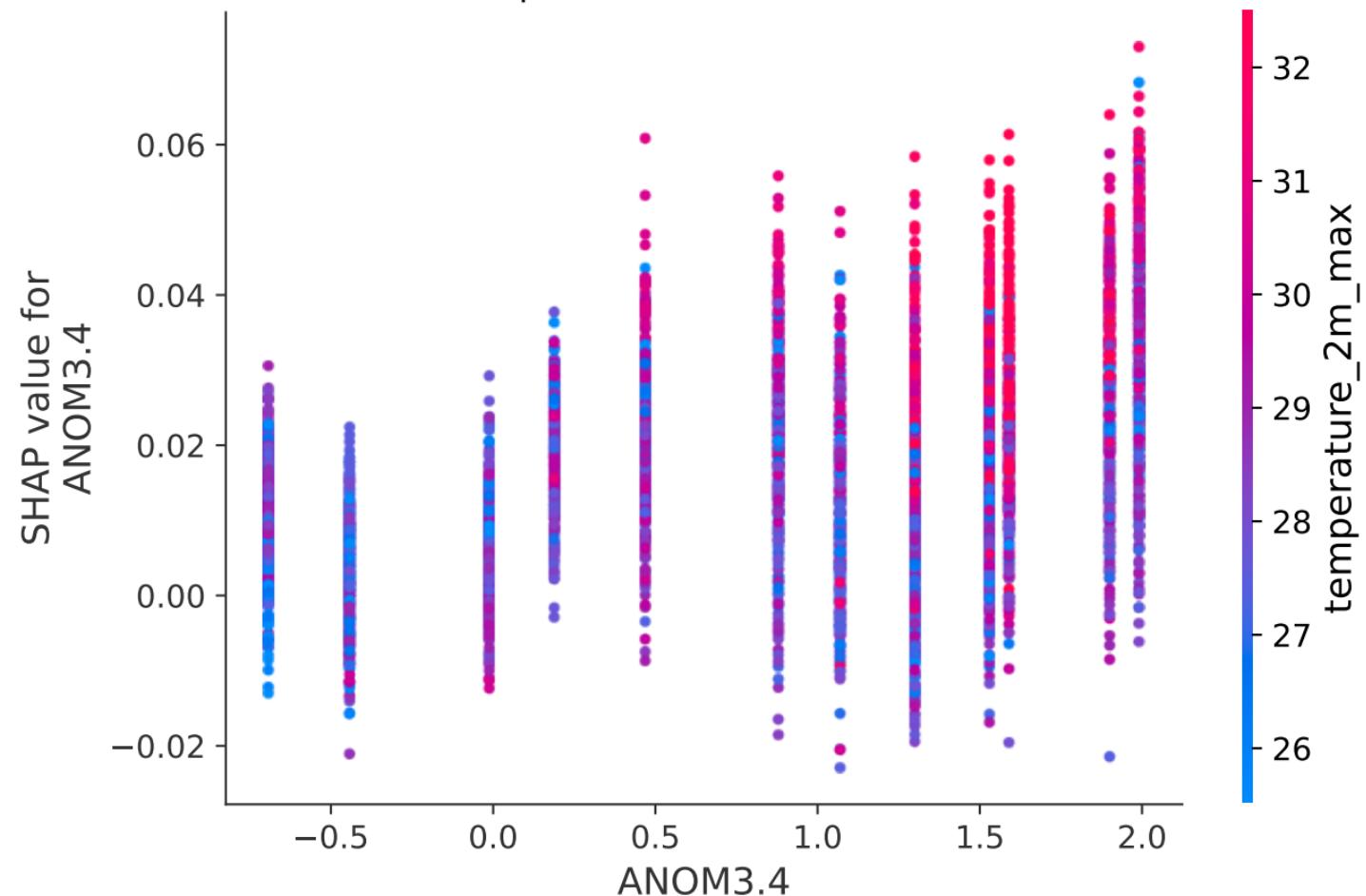
SHAP Dependence - ANOM3 - Class 2



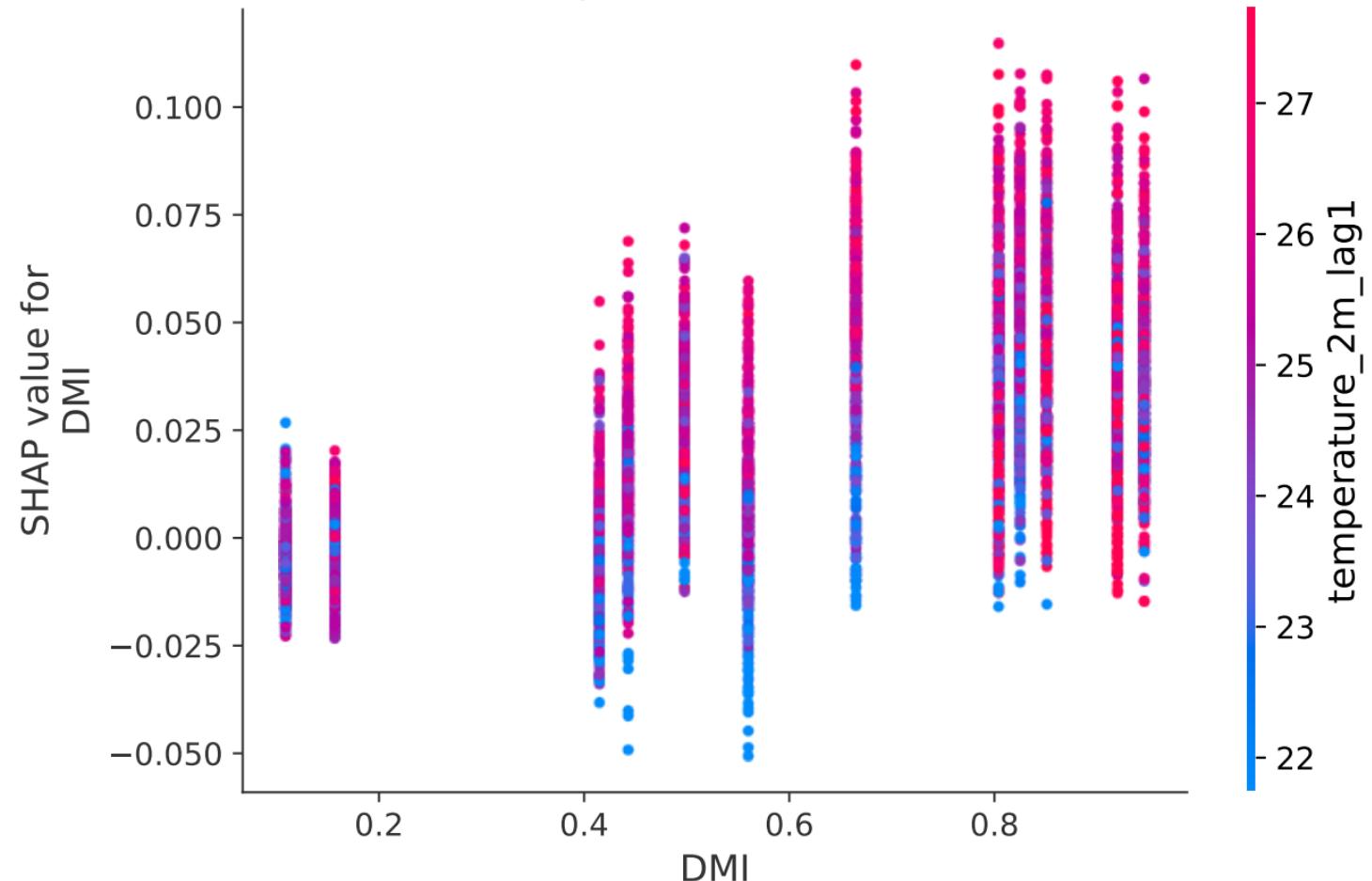
SHAP Dependence - ANOM4 - Class 2



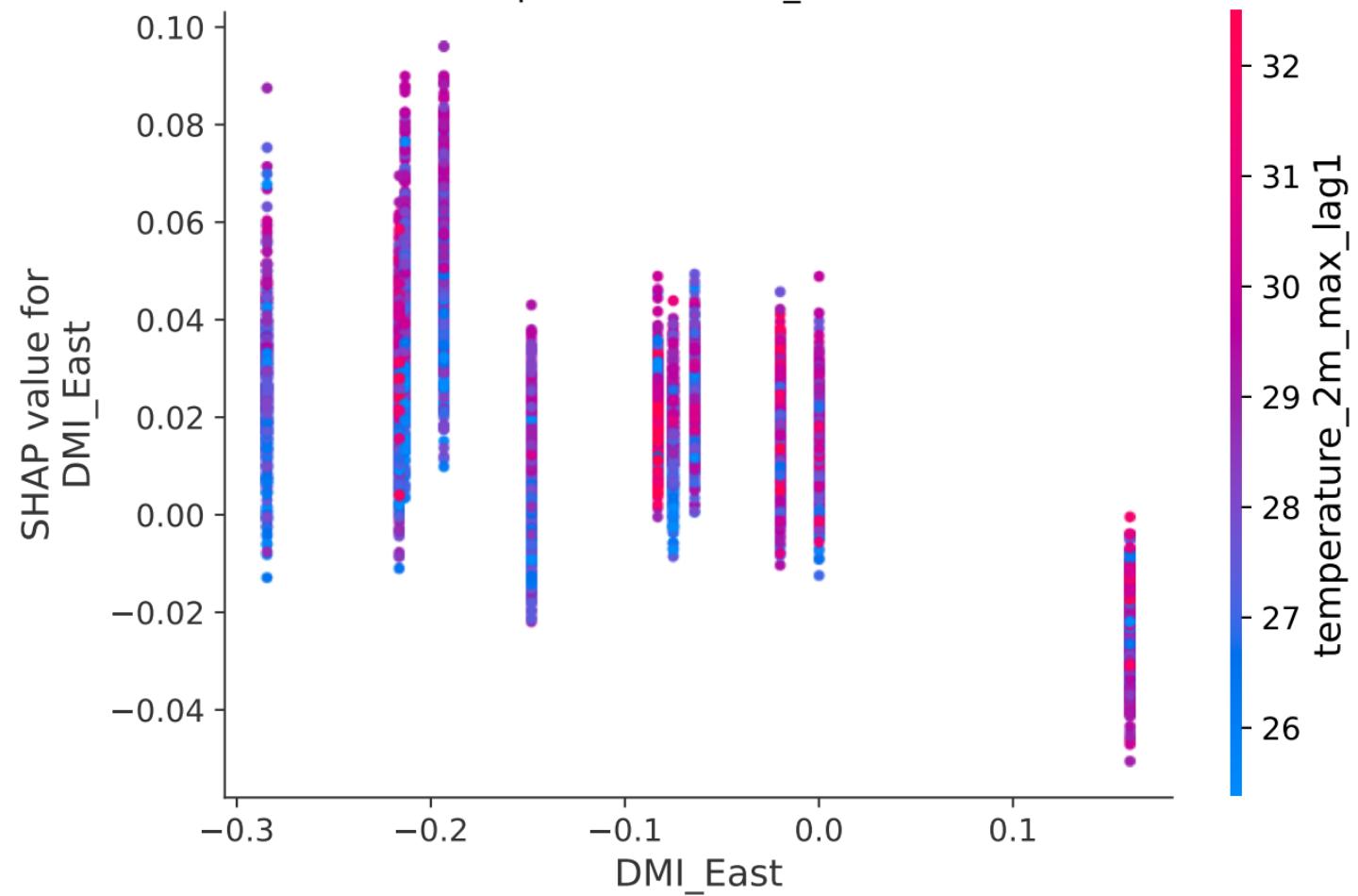
SHAP Dependence - ANOM3.4 - Class 2



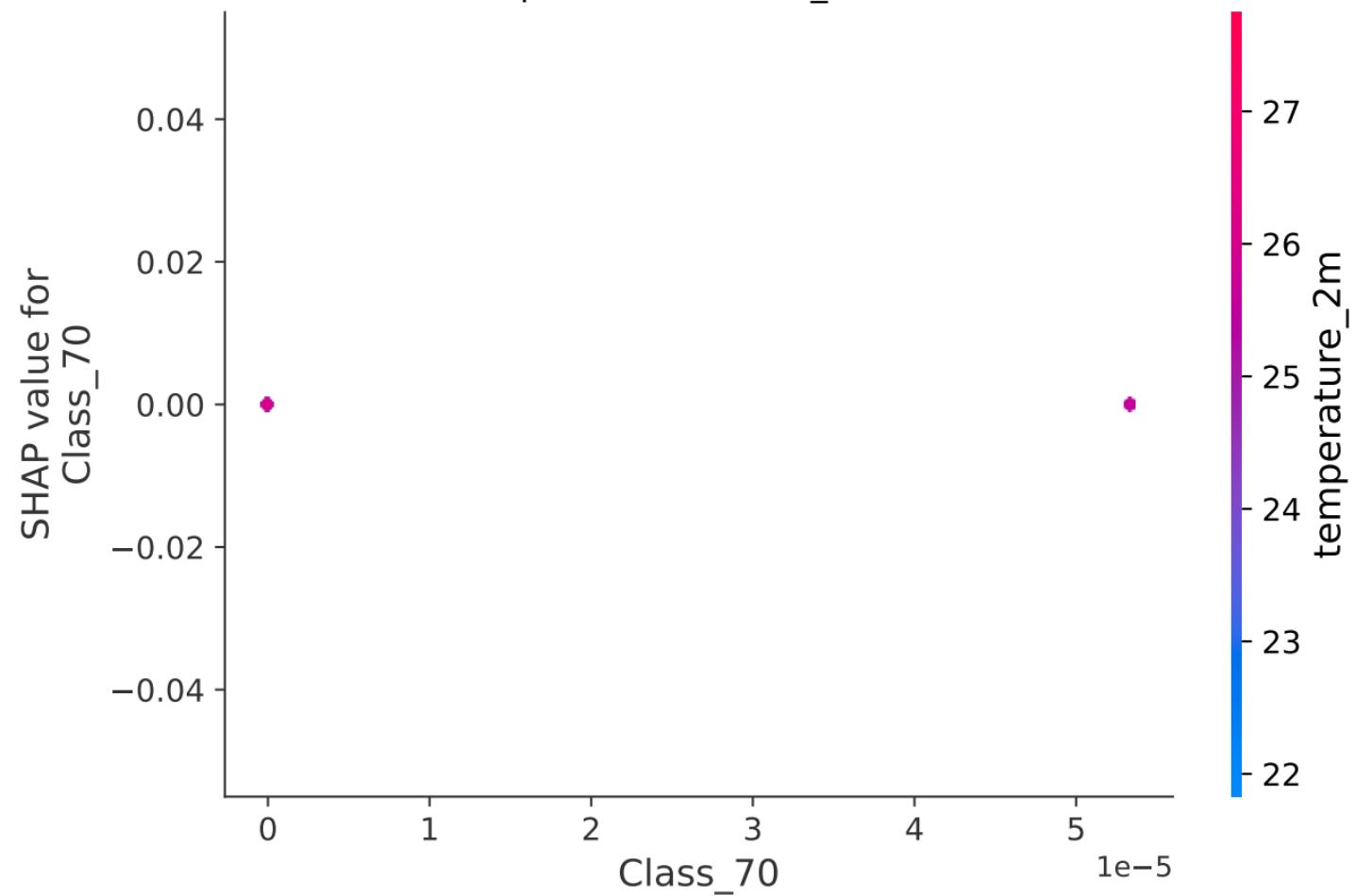
SHAP Dependence - DMI - Class 2



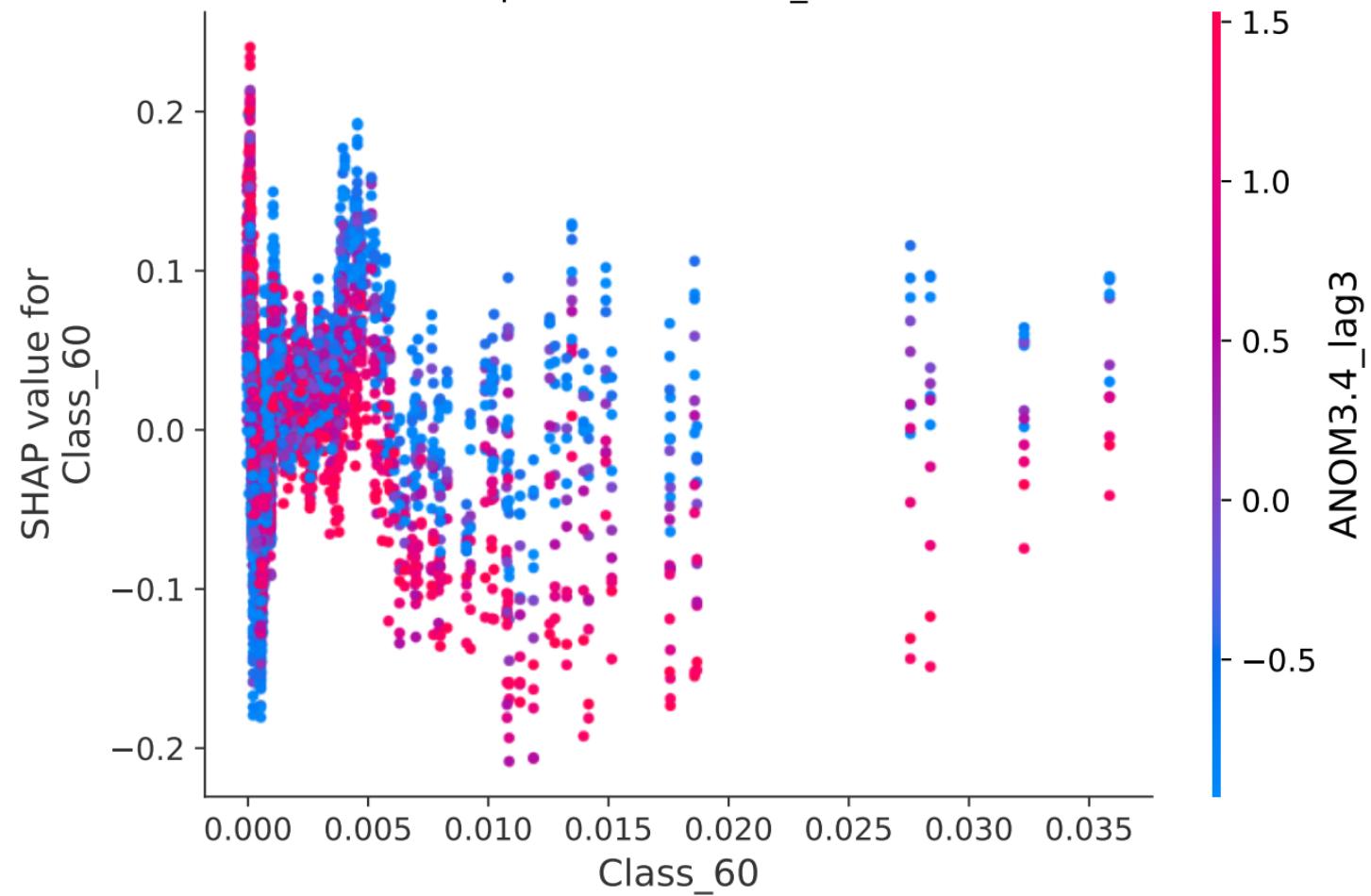
SHAP Dependence - DMI_East - Class 2



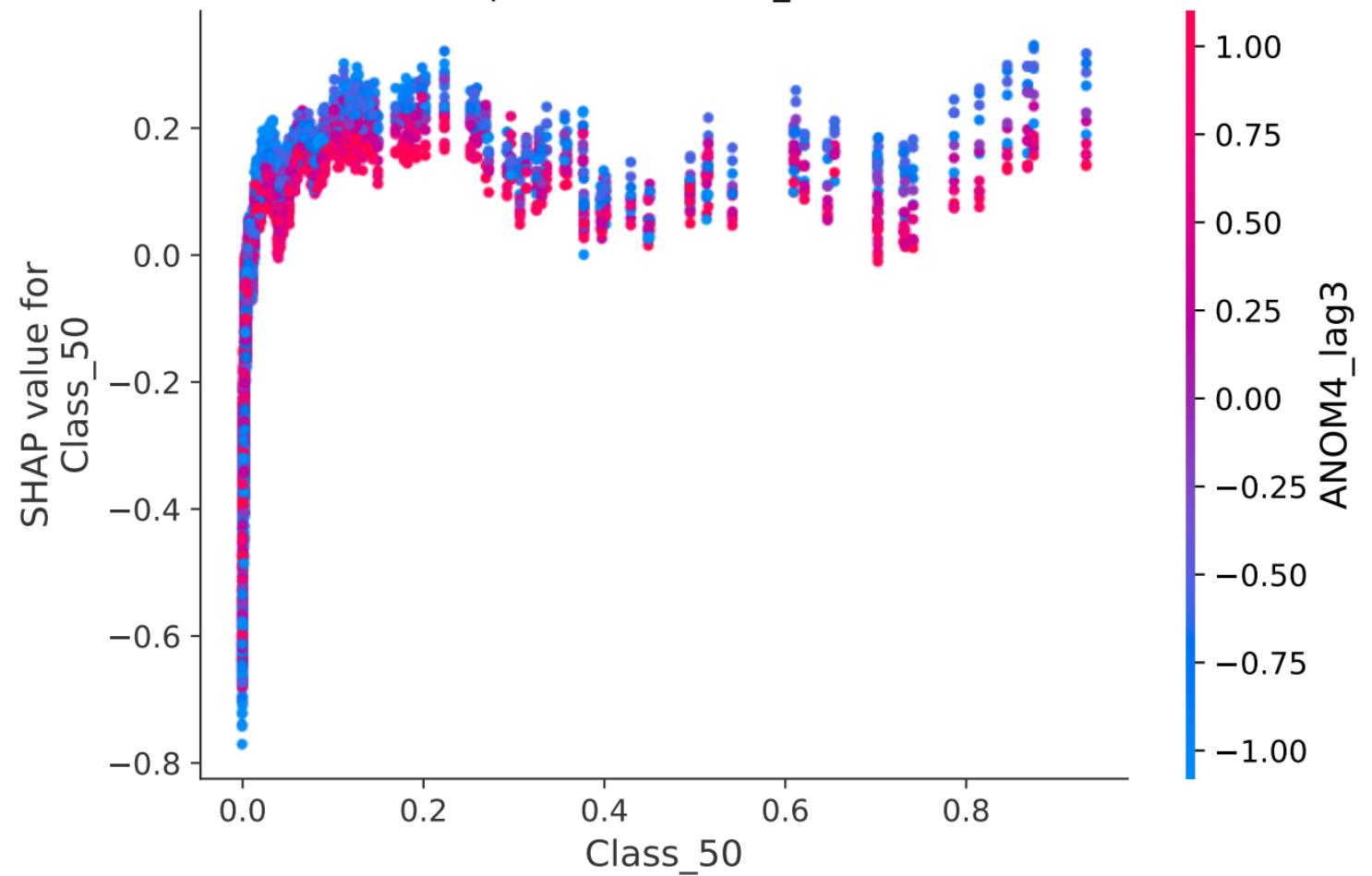
SHAP Dependence - Class_70 - Class 2



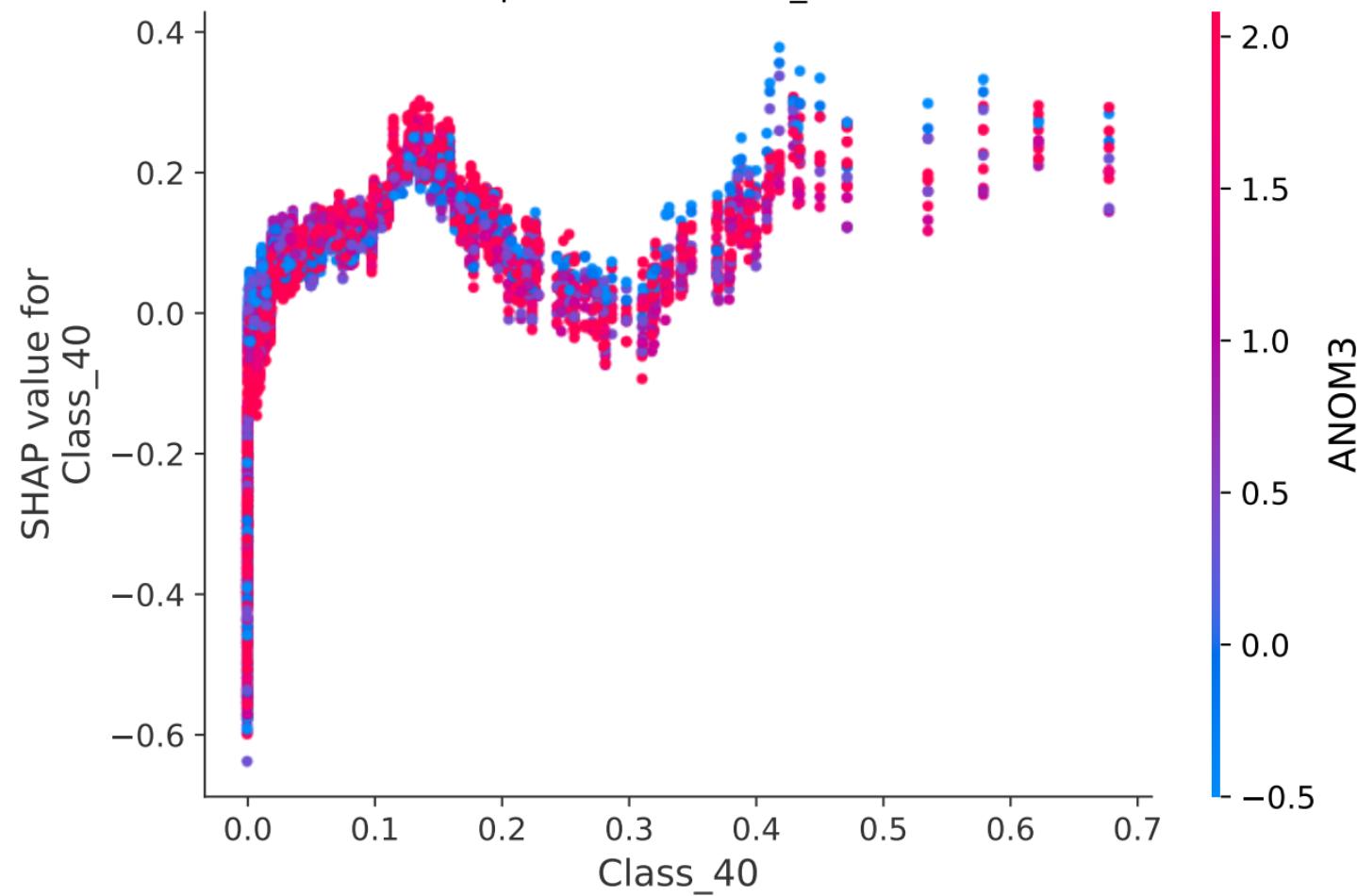
SHAP Dependence - Class_60 - Class 2



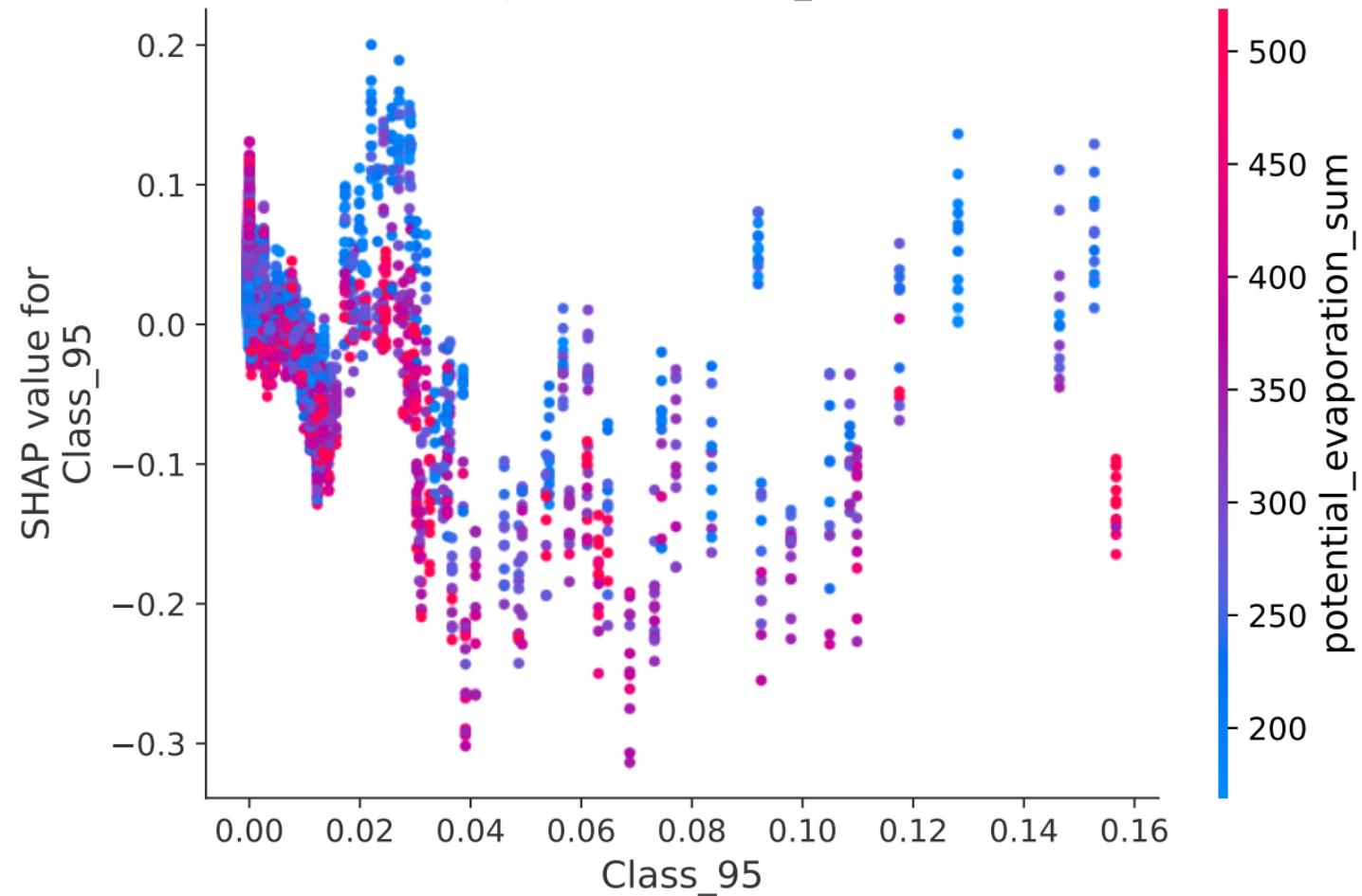
SHAP Dependence - Class_50 - Class 2



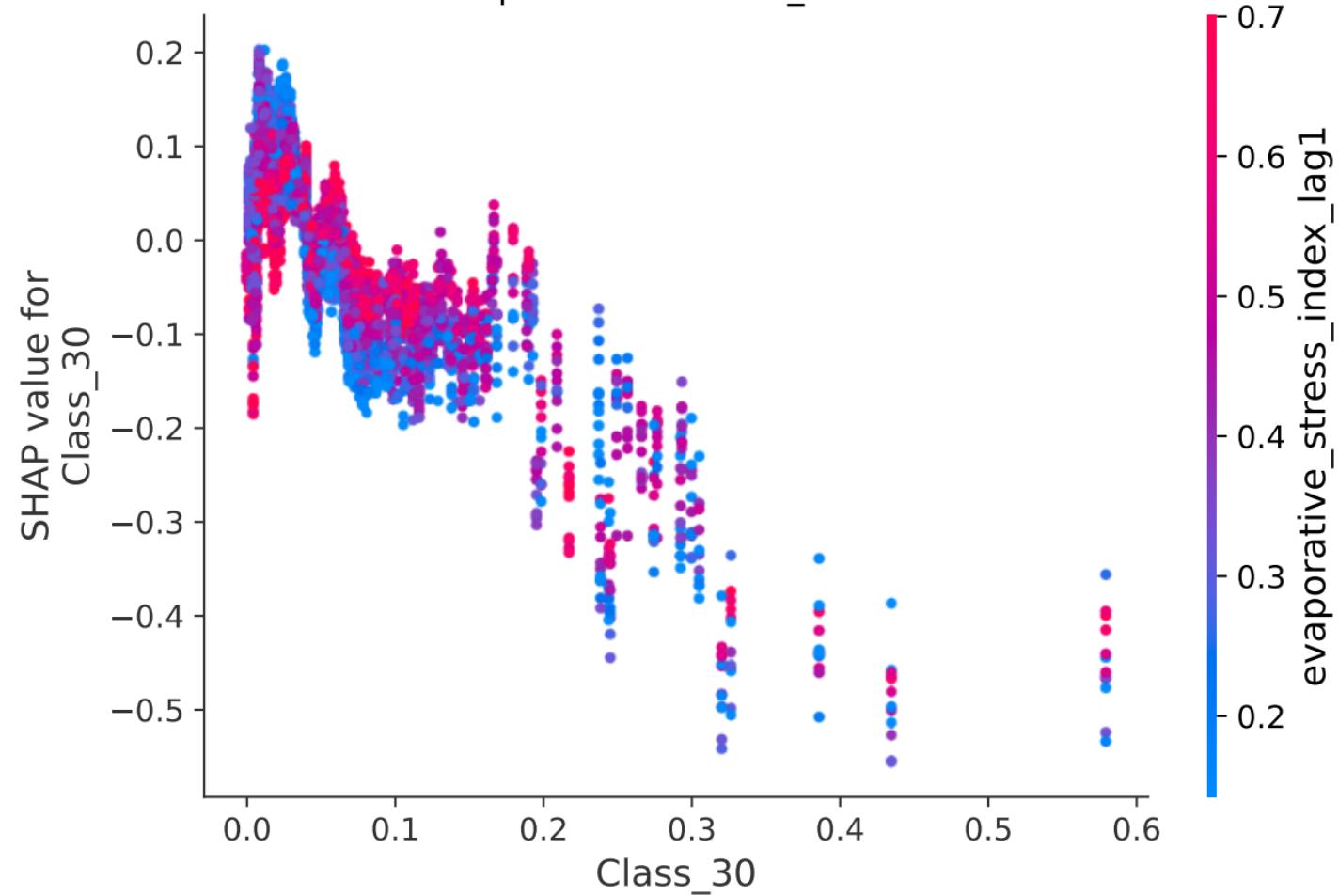
SHAP Dependence - Class_40 - Class 2



SHAP Dependence - Class_95 - Class 2



SHAP Dependence - Class_30 - Class 2



SHAP Dependence - Class_20 - Class 2

SHAP value for
Class_20

0.20

0.15

0.10

0.05

0.00

-0.05

-0.10

-0.15

Class_20

0.7

0.6

0.5

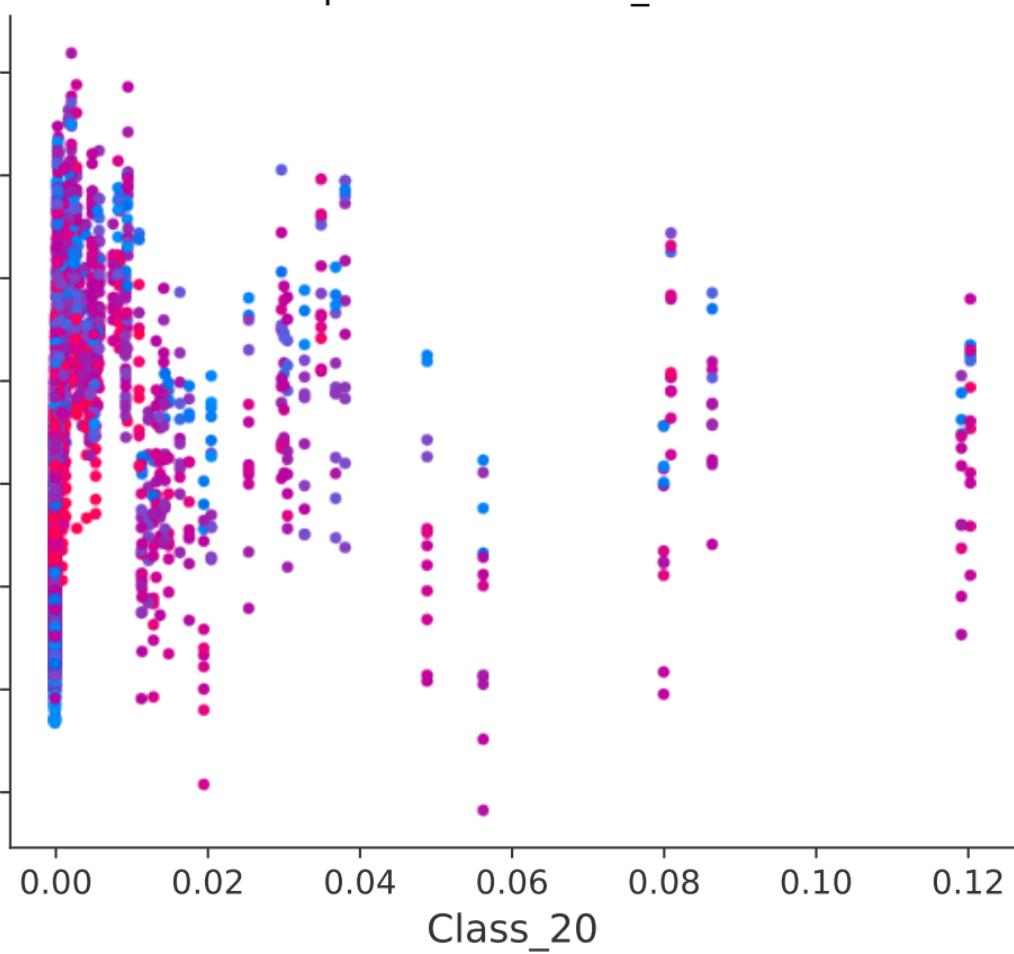
0.4

0.3

0.2

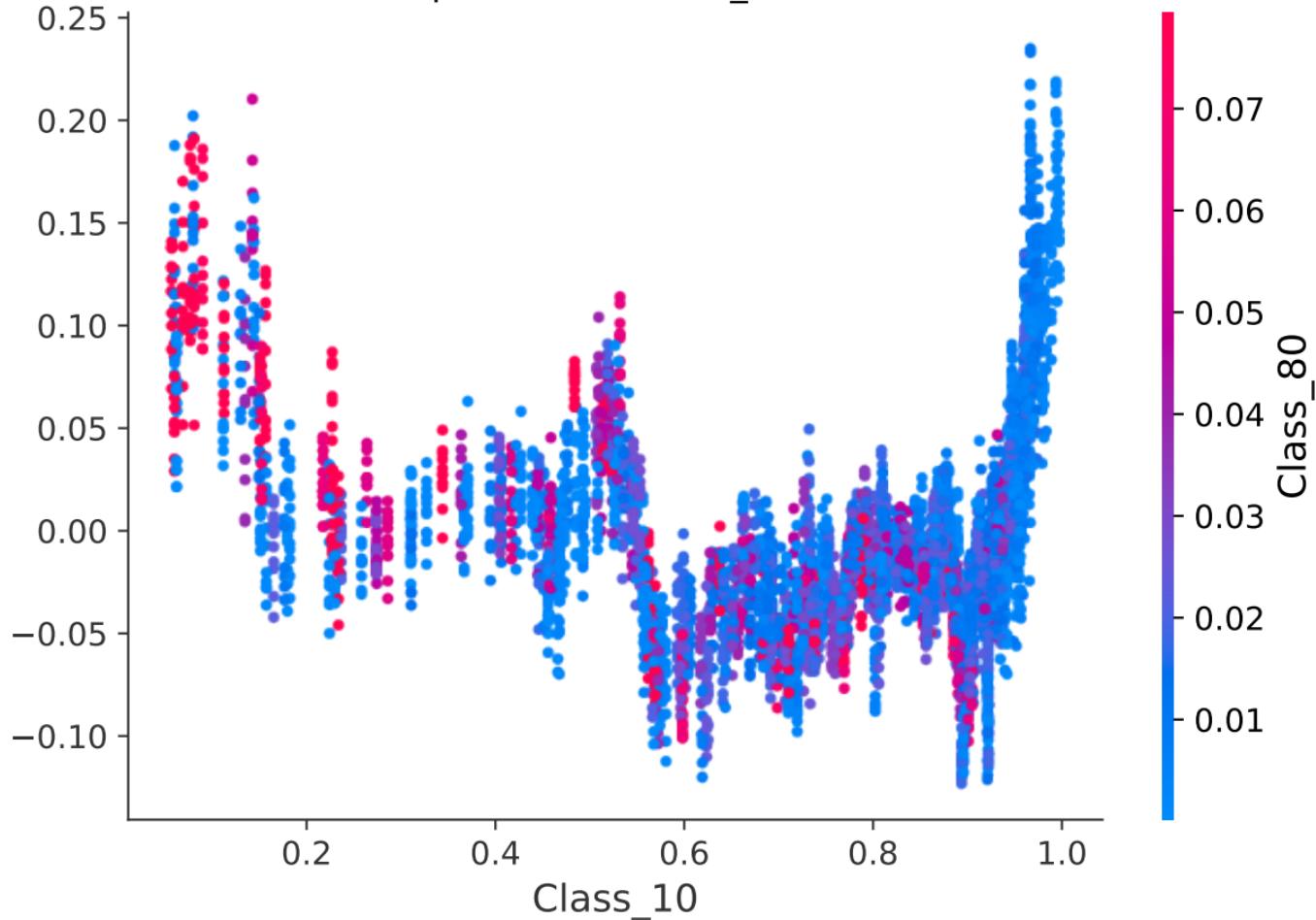
evaporative_stress_index_lag1

0.00 0.02 0.04 0.06 0.08 0.10 0.12

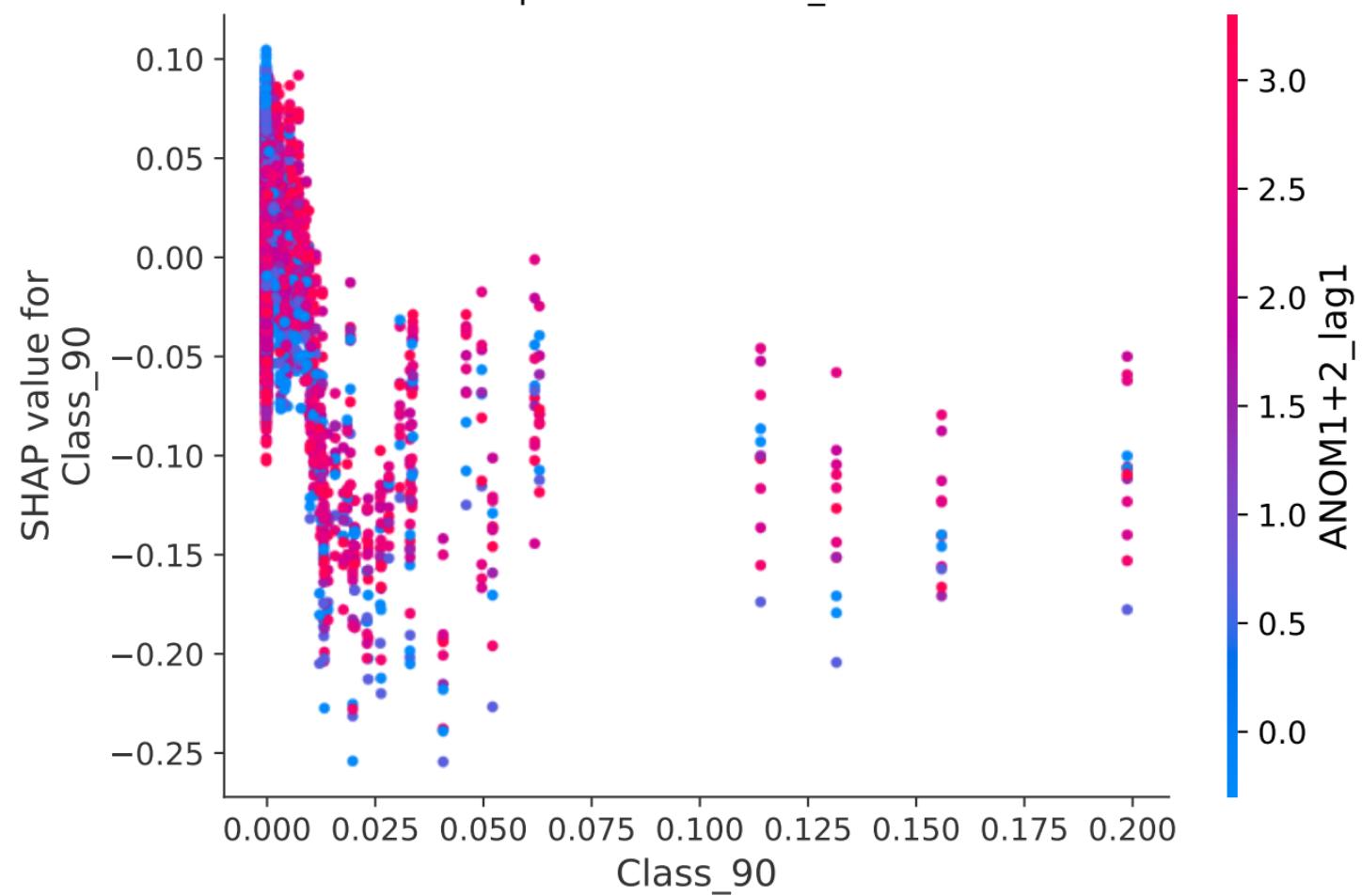


SHAP Dependence - Class_10 - Class 2

SHAP value for
Class_10



SHAP Dependence - Class_90 - Class 2



SHAP Dependence - Class_80 - Class 2

SHAP value for
Class_80

0.2
0.1
0.0
-0.1
-0.2
-0.3
-0.4
-0.5

0.0 0.2 0.4 0.6 0.8

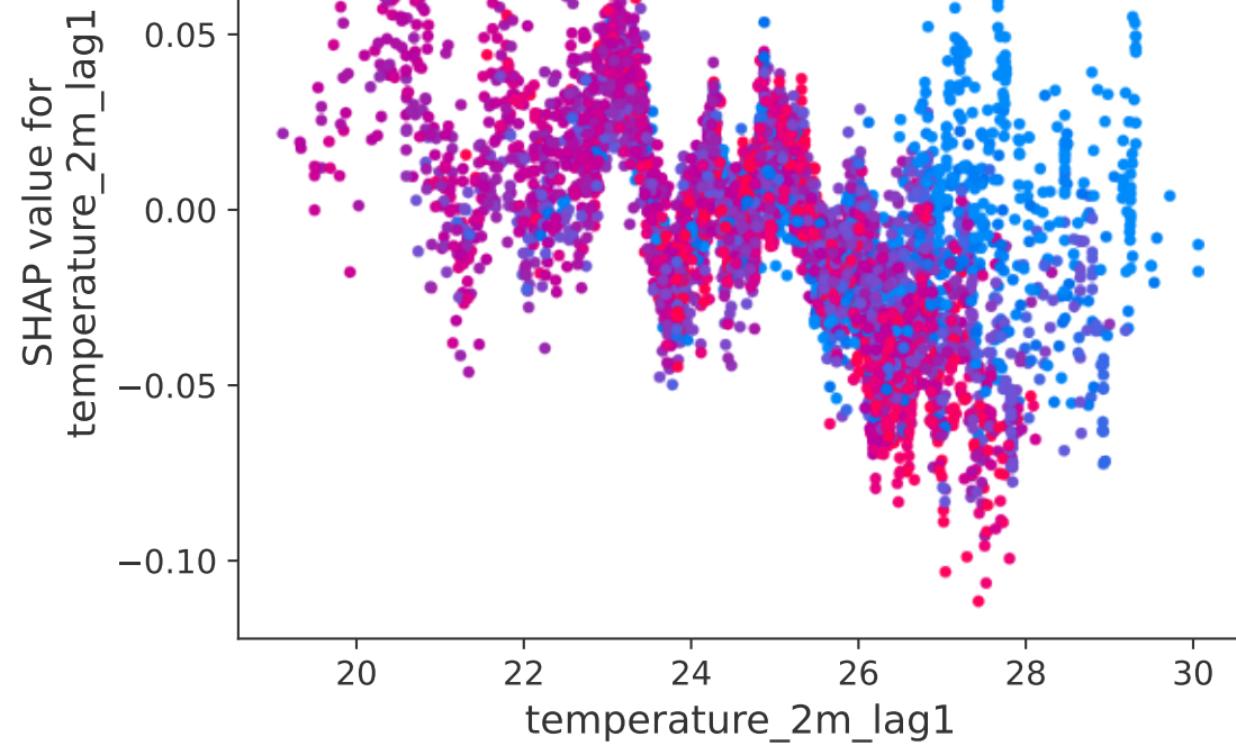
Class_80

0.6
0.5
0.4
0.3
0.2

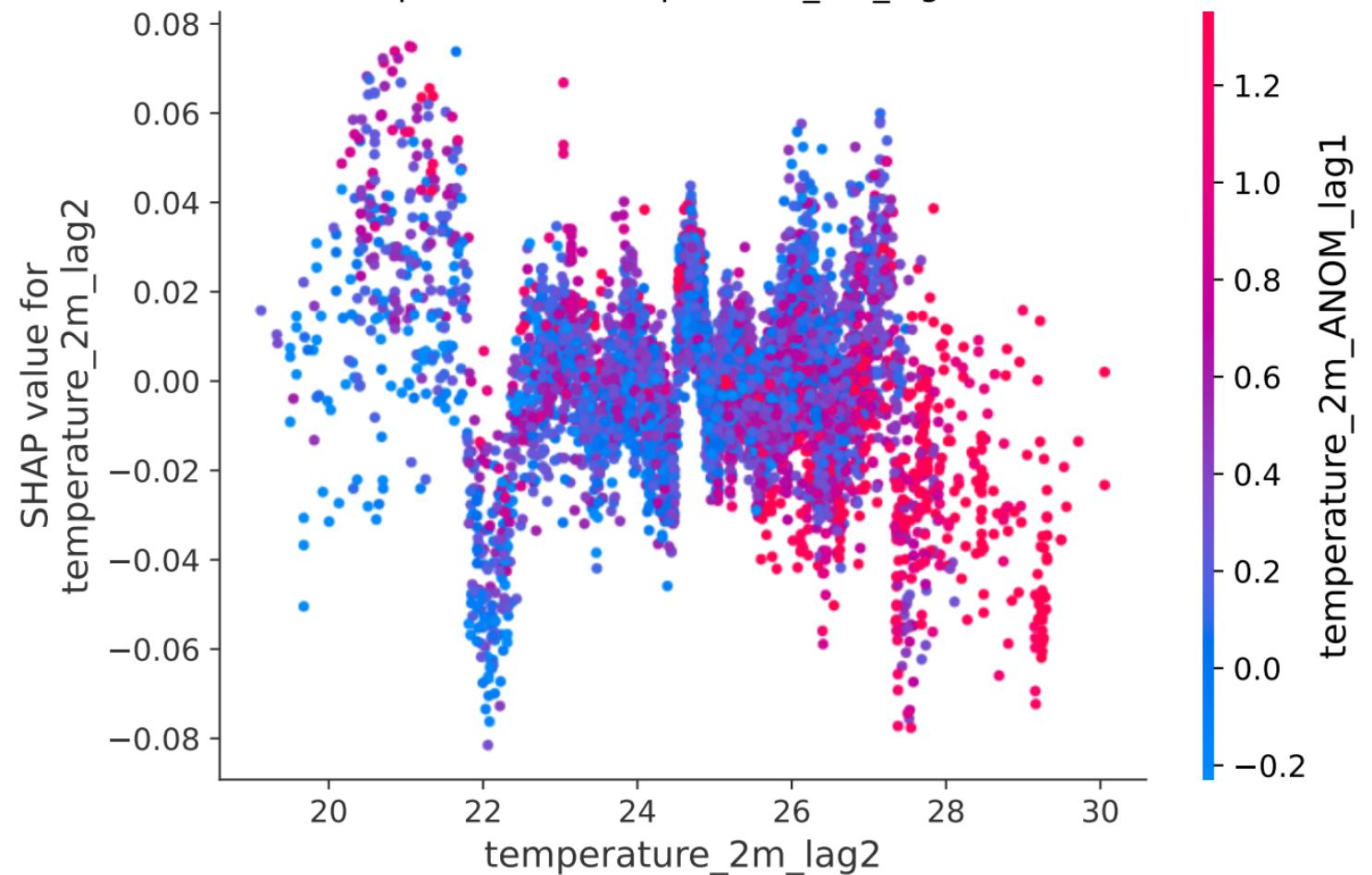
evaporative_stress_index



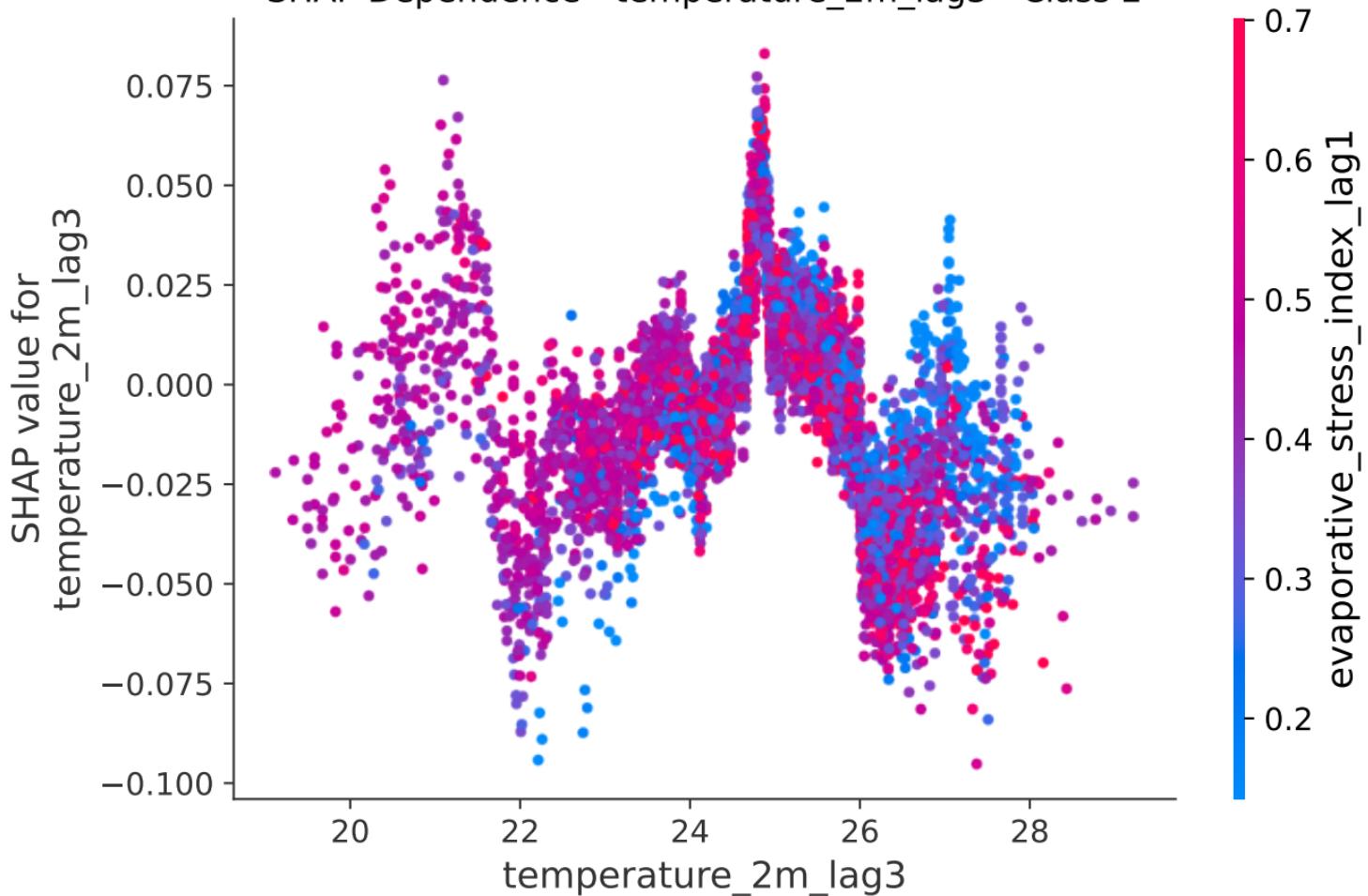
SHAP Dependence - temperature_2m_lag1 - Class 2



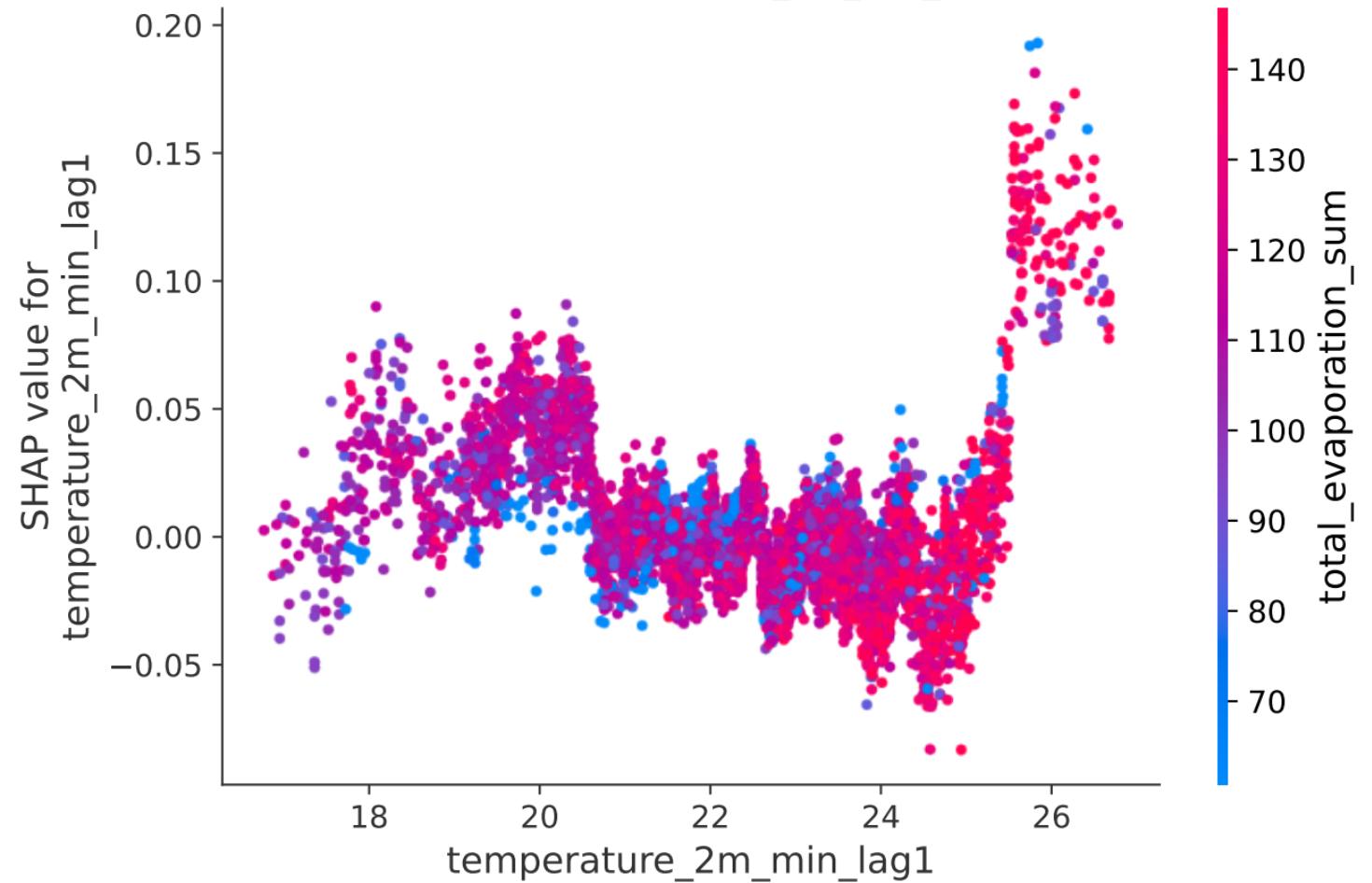
SHAP Dependence - temperature_2m_lag2 - Class 2



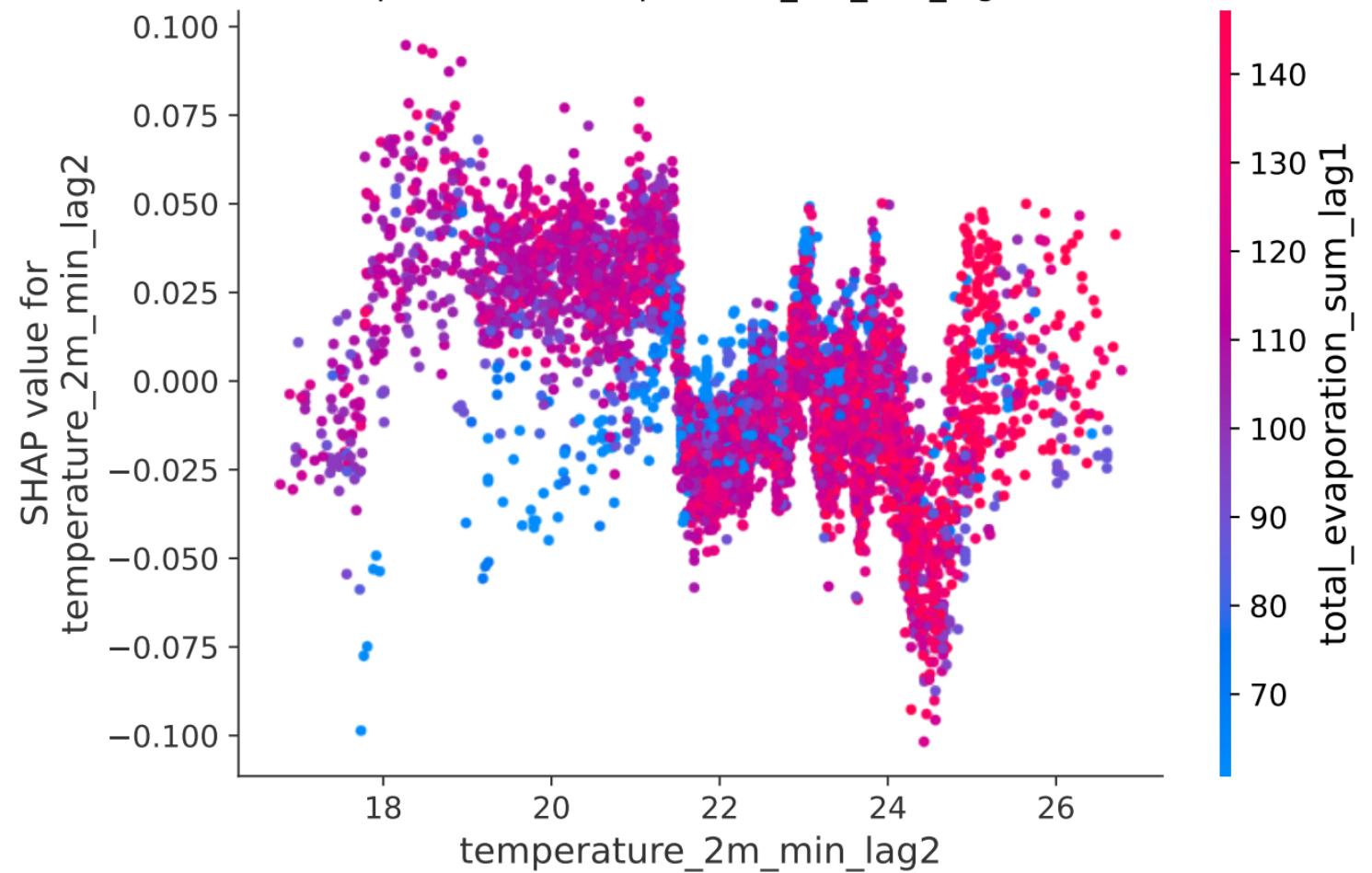
SHAP Dependence - temperature_2m_lag3 - Class 2



SHAP Dependence - temperature_2m_min_lag1 - Class 2

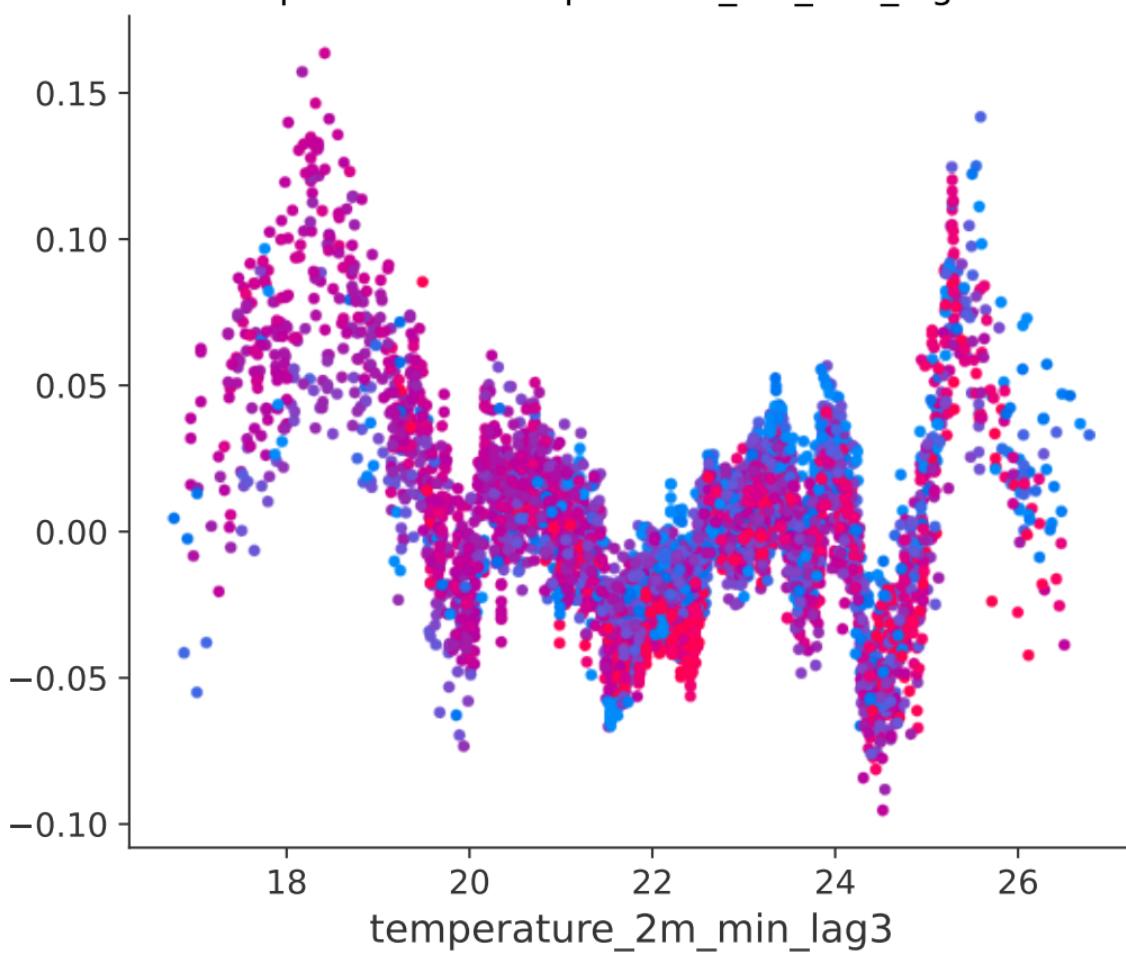


SHAP Dependence - temperature_2m_min_lag2 - Class 2

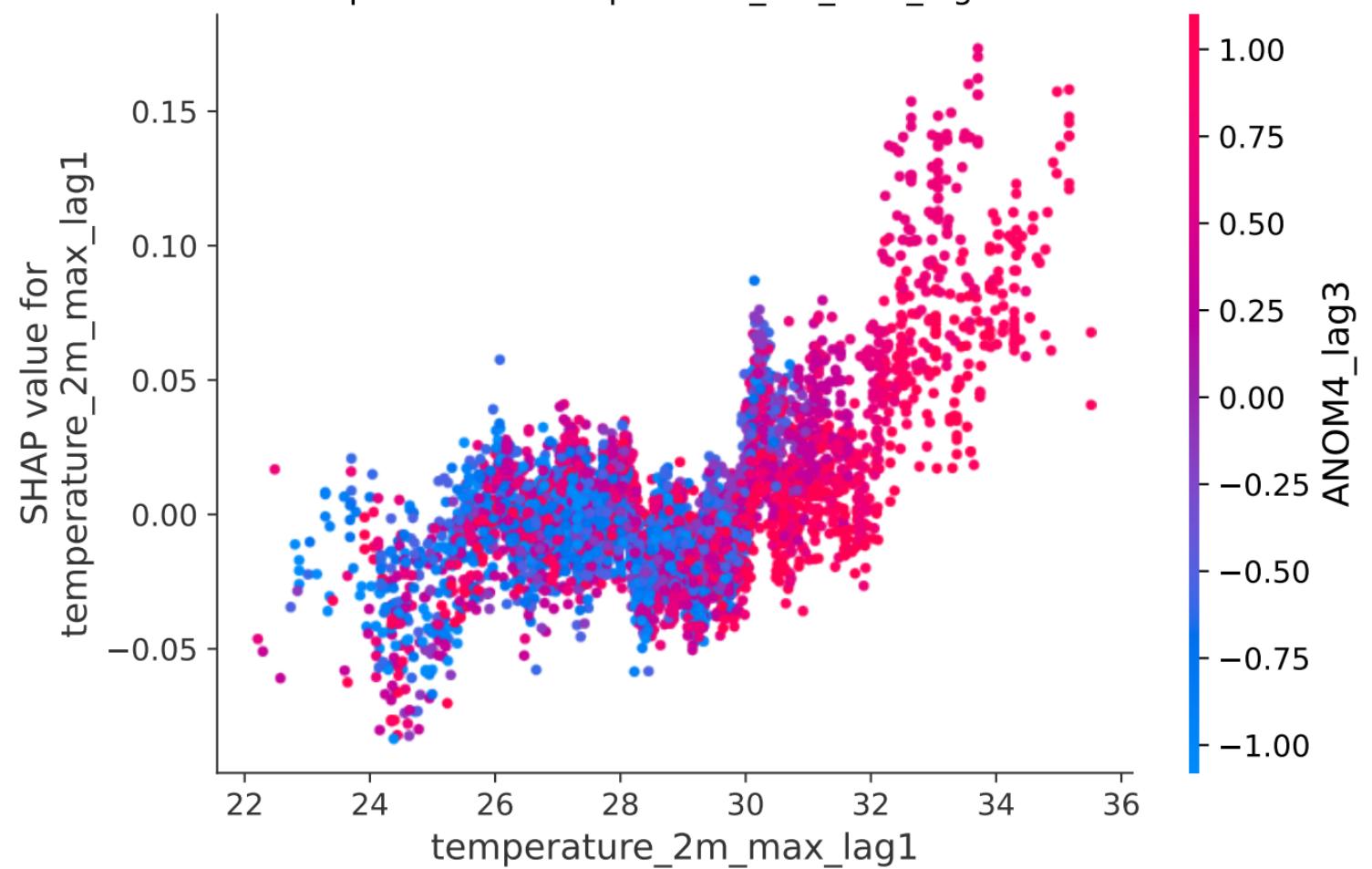


SHAP Dependence - temperature_2m_min_lag3 - Class 2

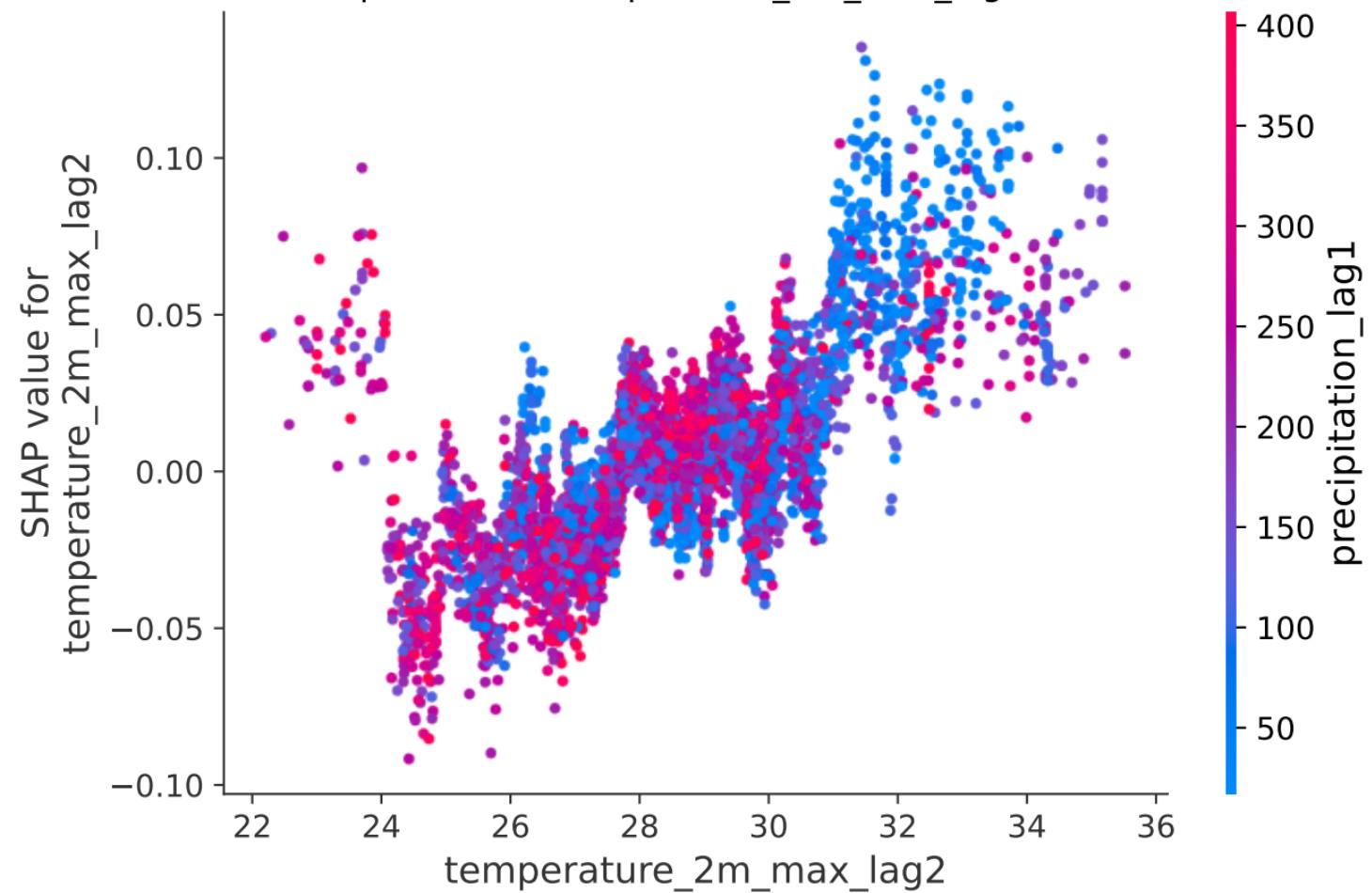
SHAP value for
temperature_2m_min_lag3



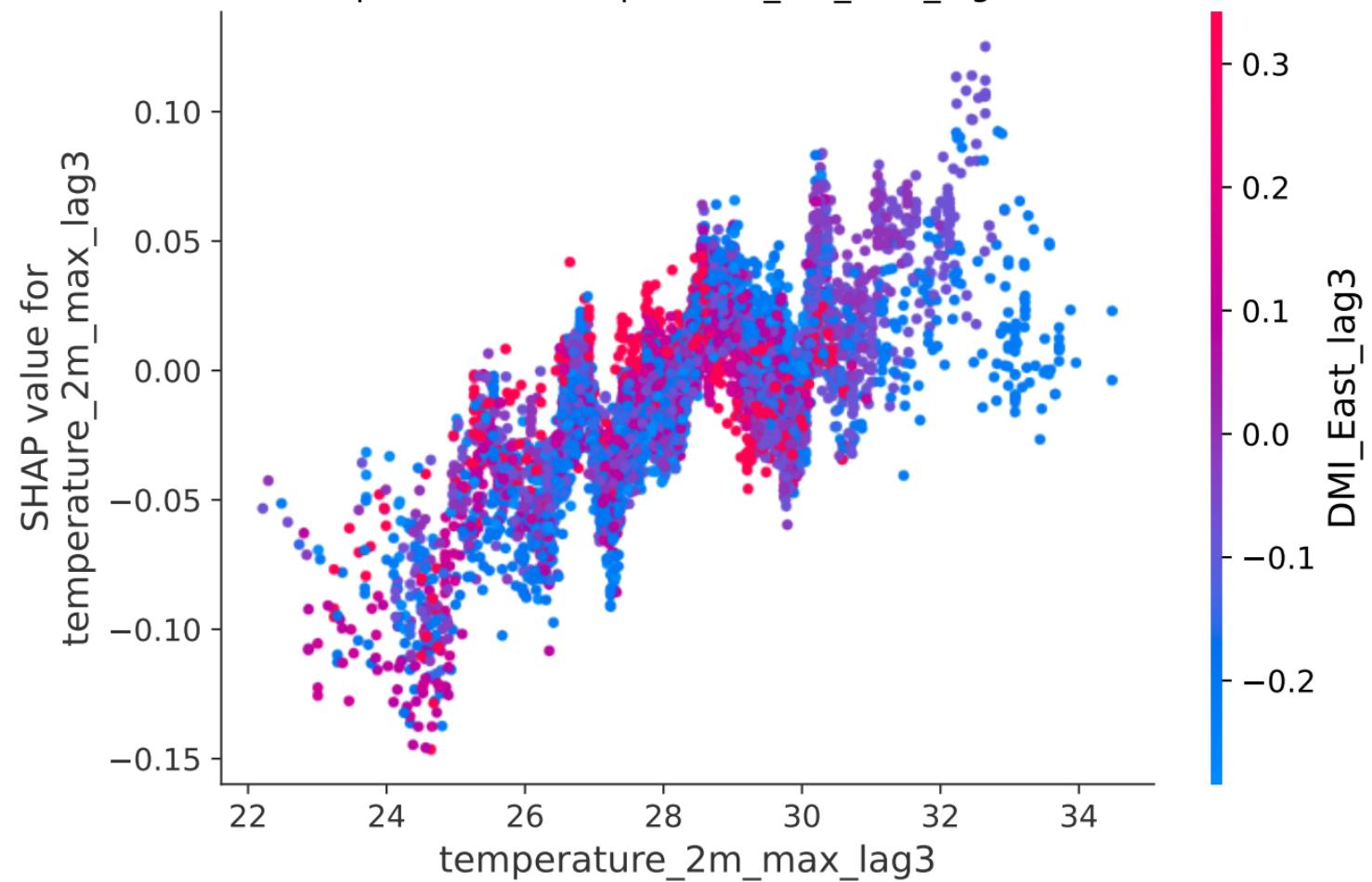
SHAP Dependence - temperature_2m_max_lag1 - Class 2



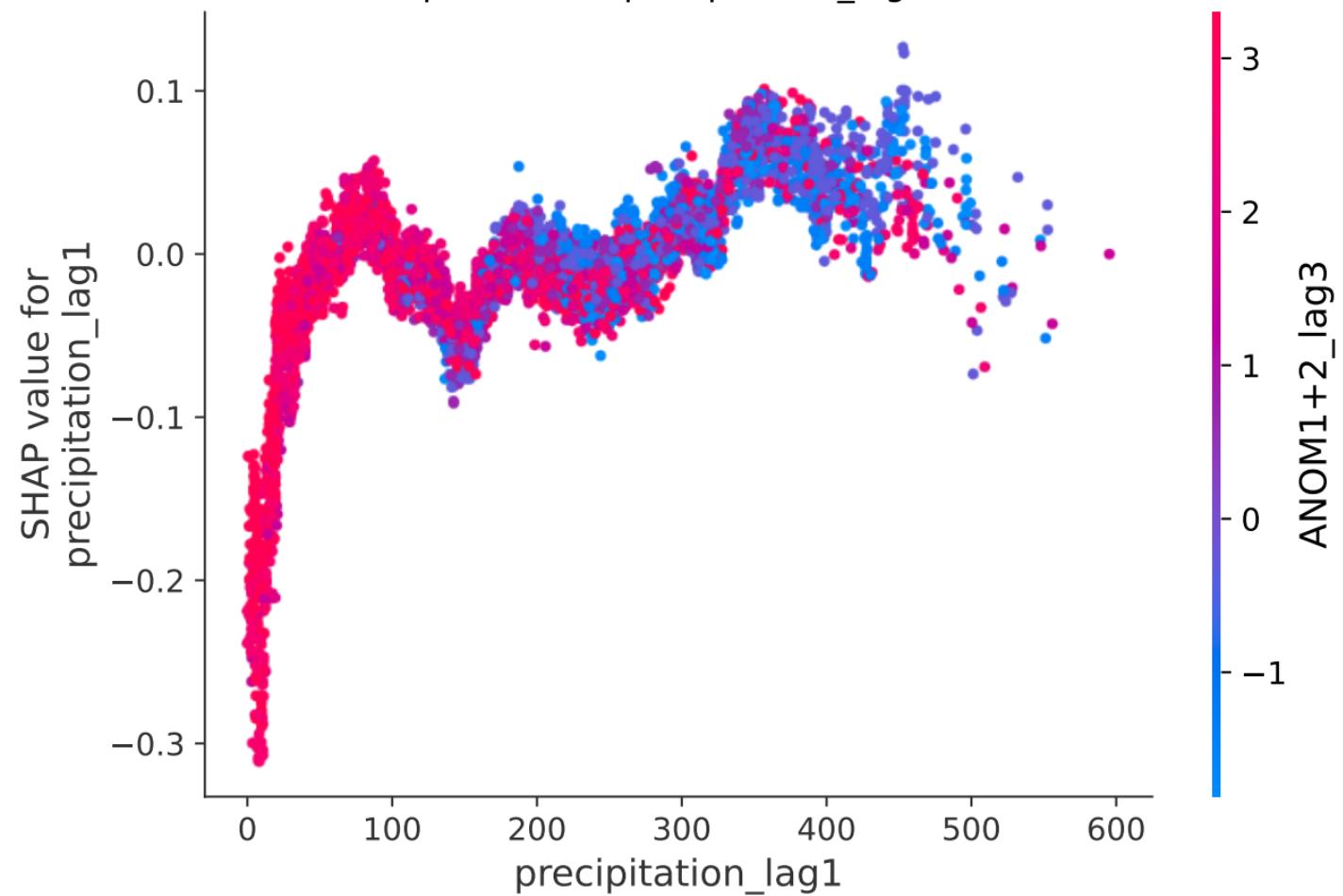
SHAP Dependence - temperature_2m_max_lag2 - Class 2



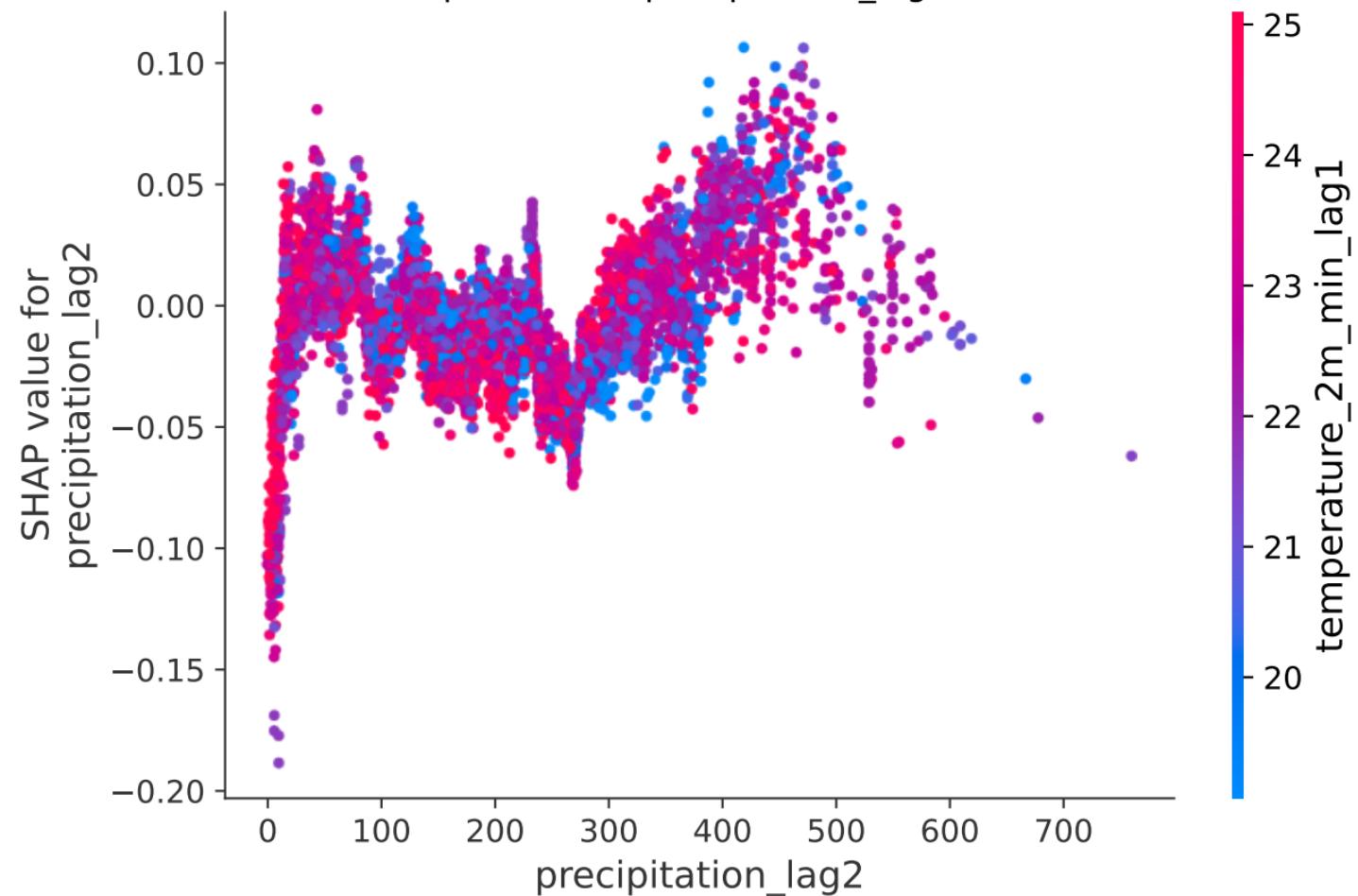
SHAP Dependence - temperature_2m_max_lag3 - Class 2



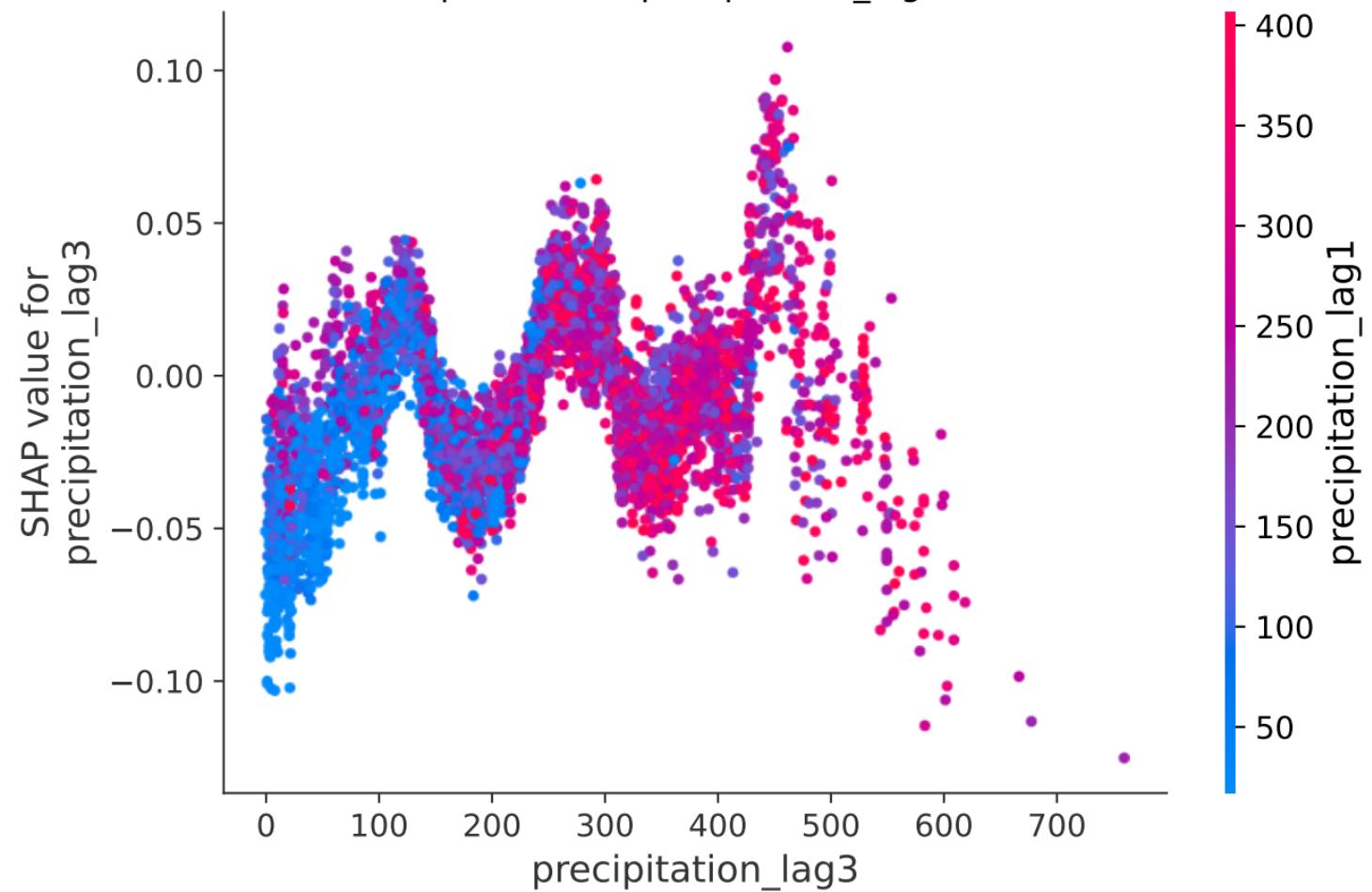
SHAP Dependence - precipitation_lag1 - Class 2



SHAP Dependence - precipitation_lag2 - Class 2

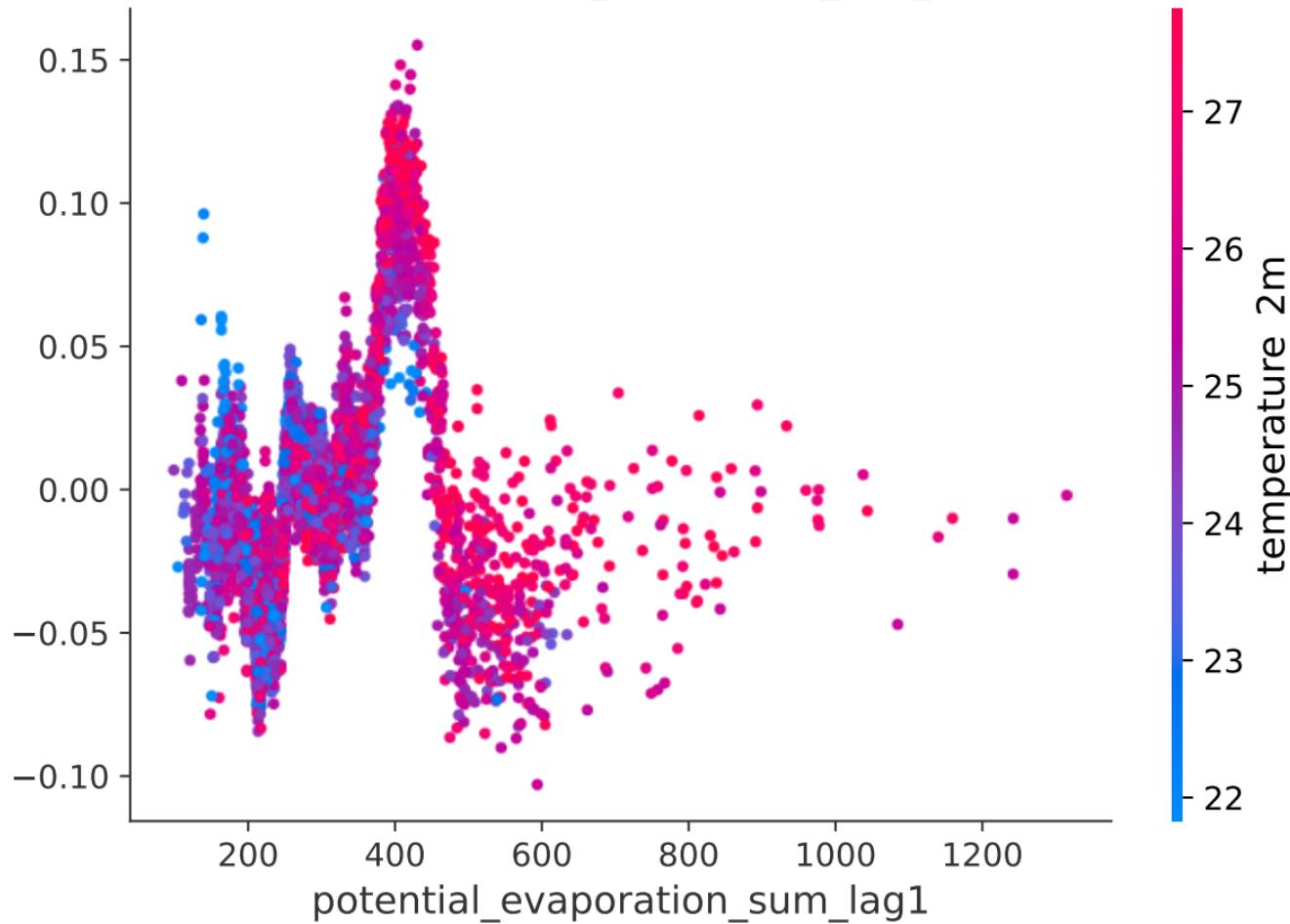


SHAP Dependence - precipitation_lag3 - Class 2

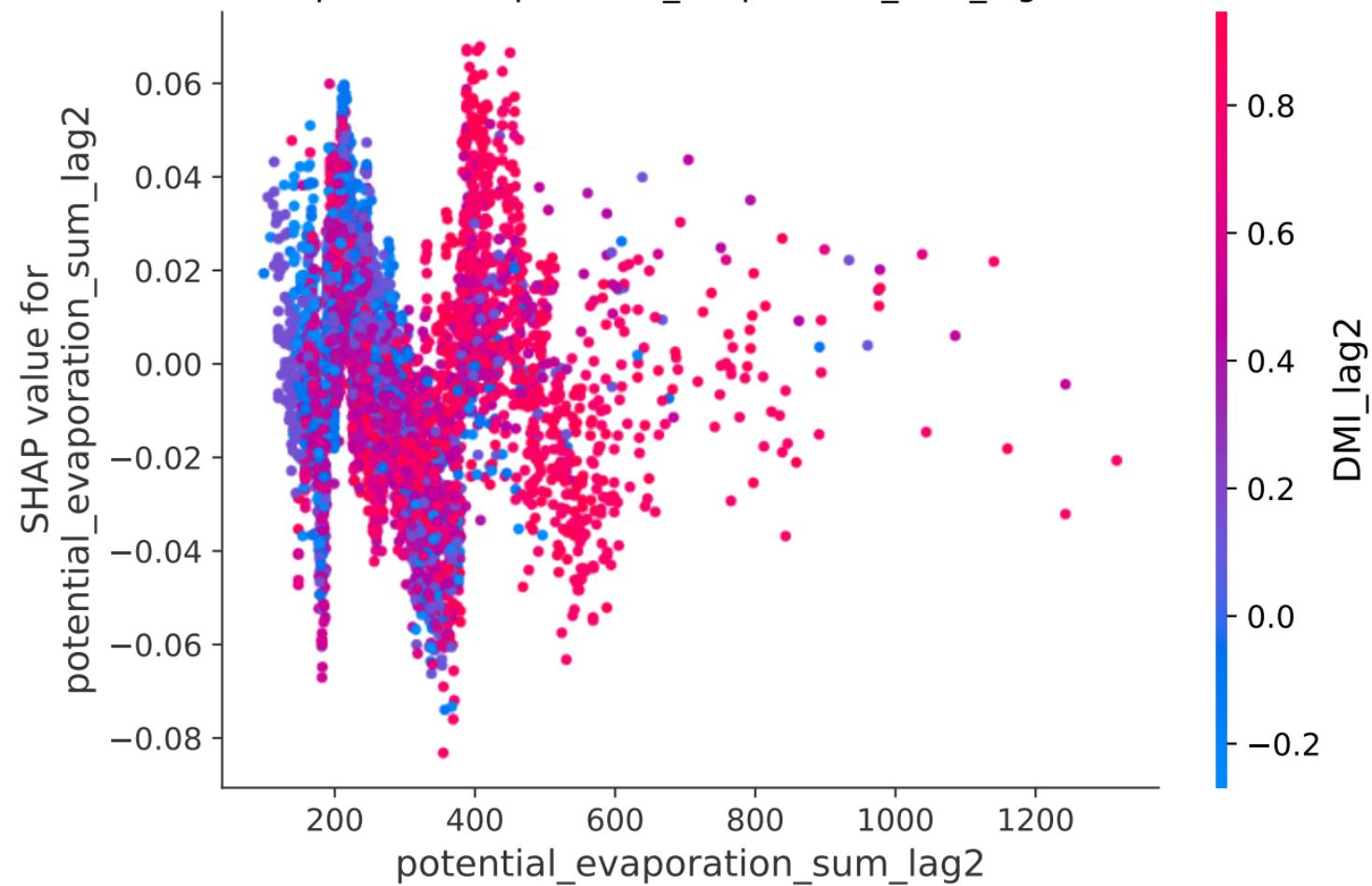


SHAP Dependence - potential_evaporation_sum_lag1 - Class 2

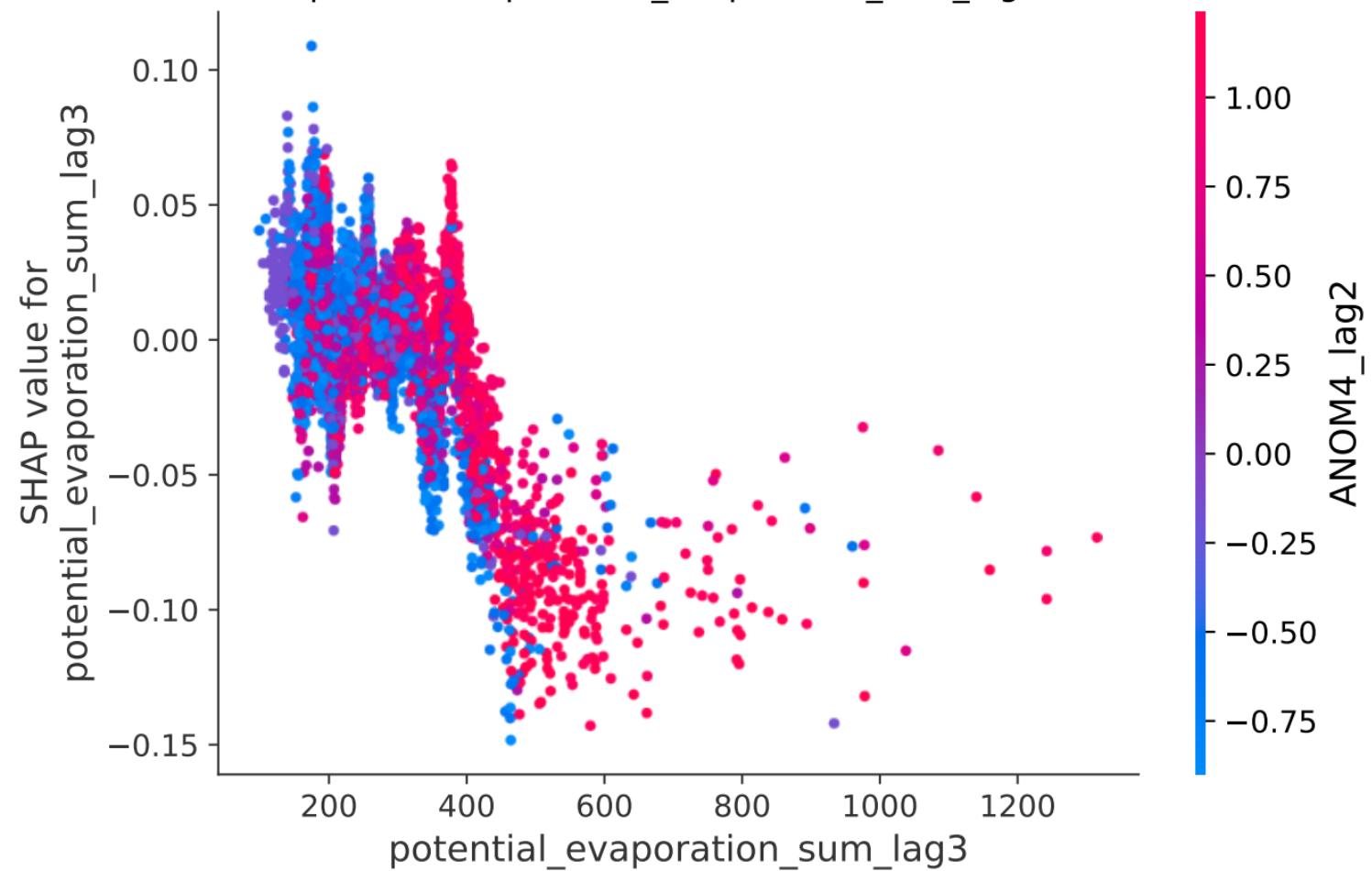
SHAP value for
potential_evaporation_sum_lag1



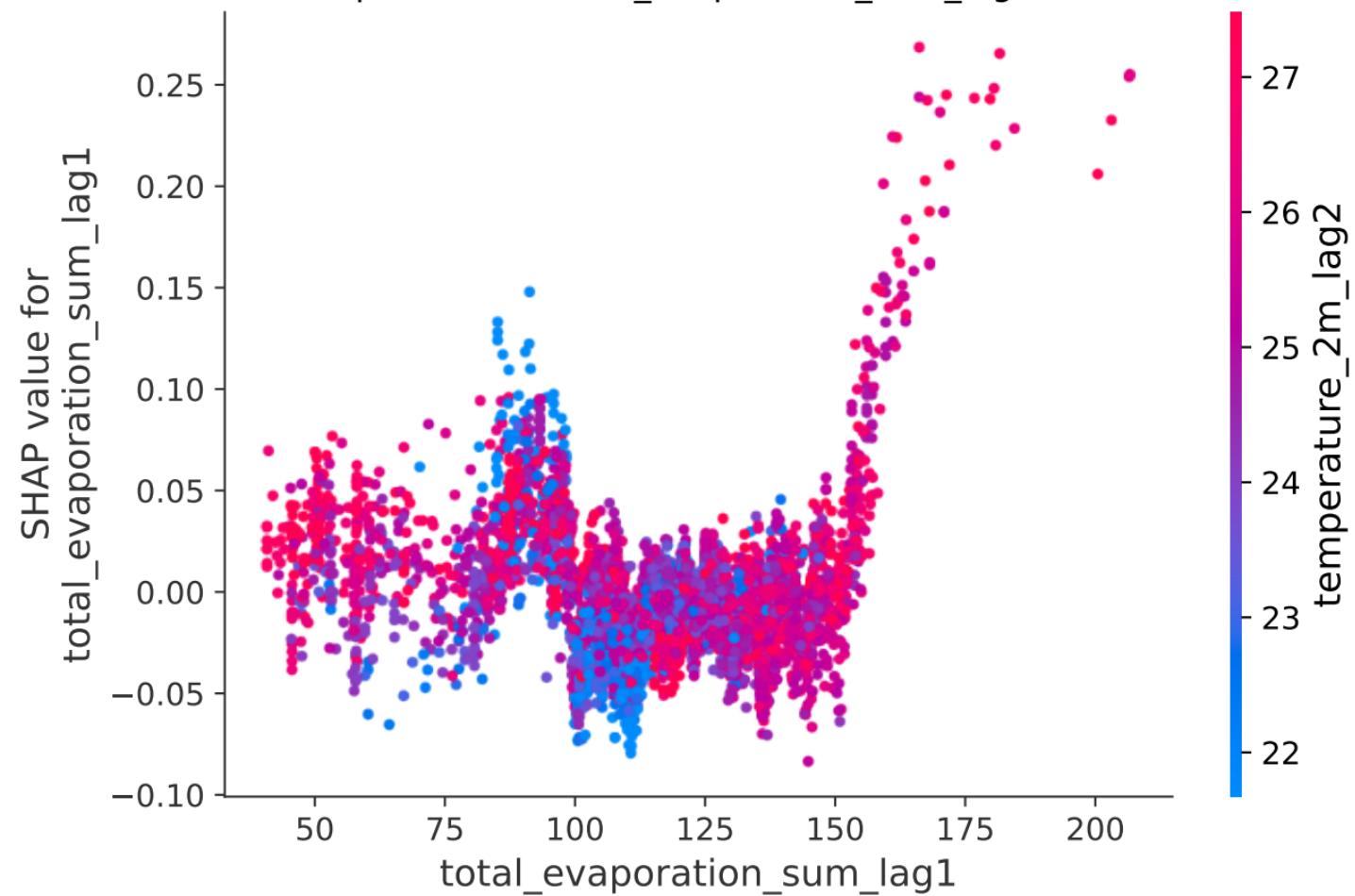
SHAP Dependence - potential_evaporation_sum_lag2 - Class 2



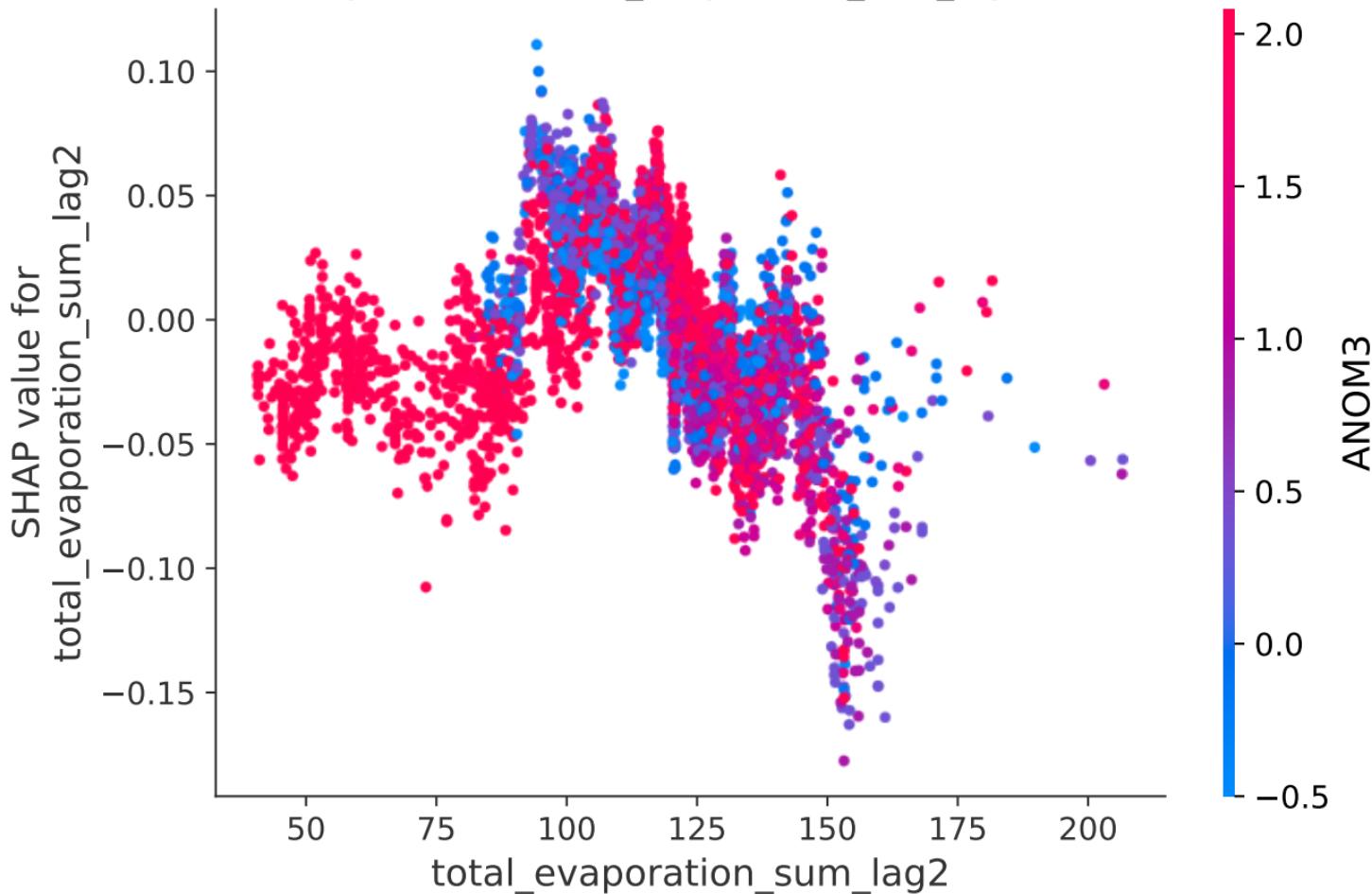
SHAP Dependence - potential_evaporation_sum_lag3 - Class 2



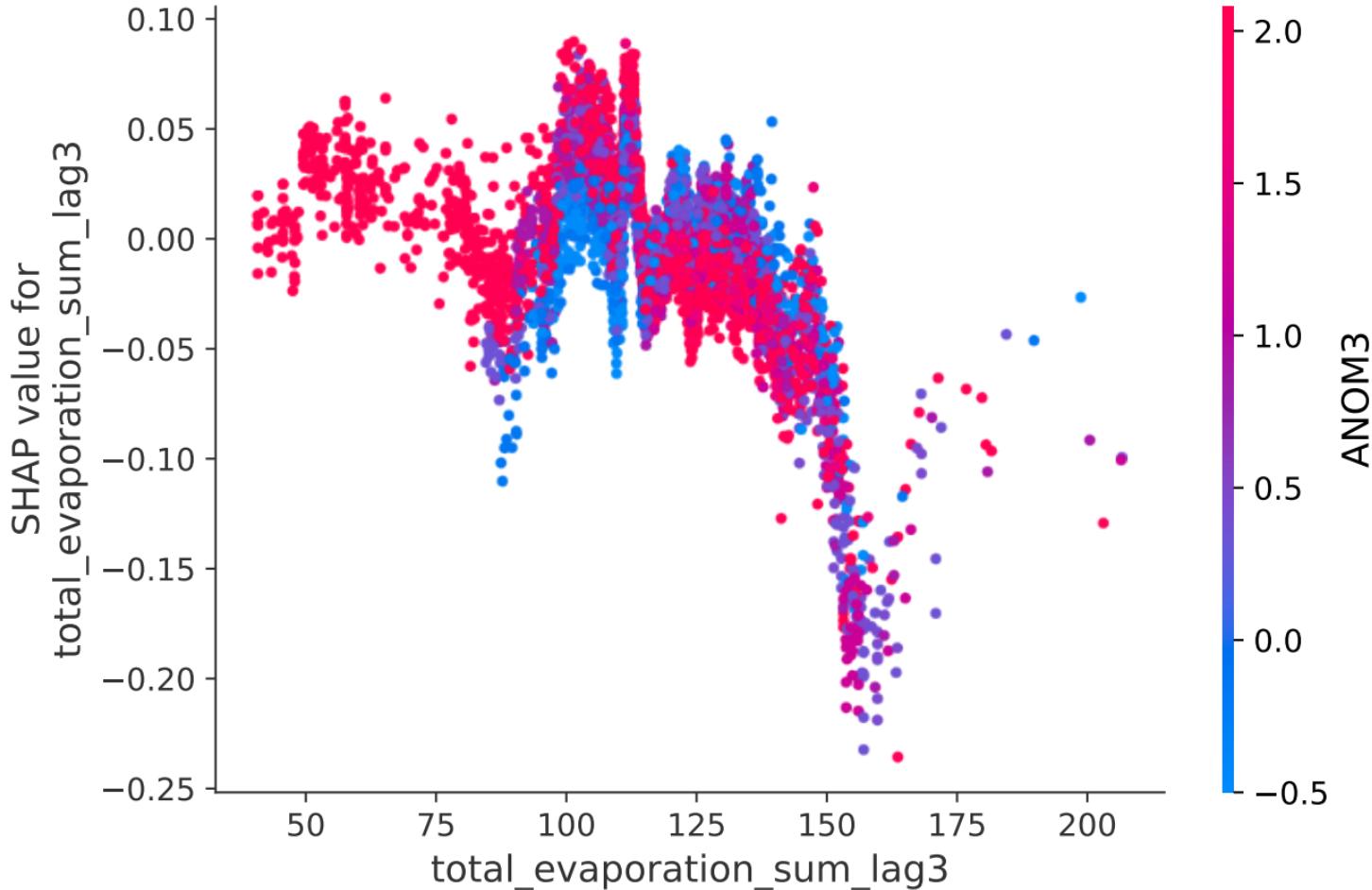
SHAP Dependence - total_evaporation_sum_lag1 - Class 2



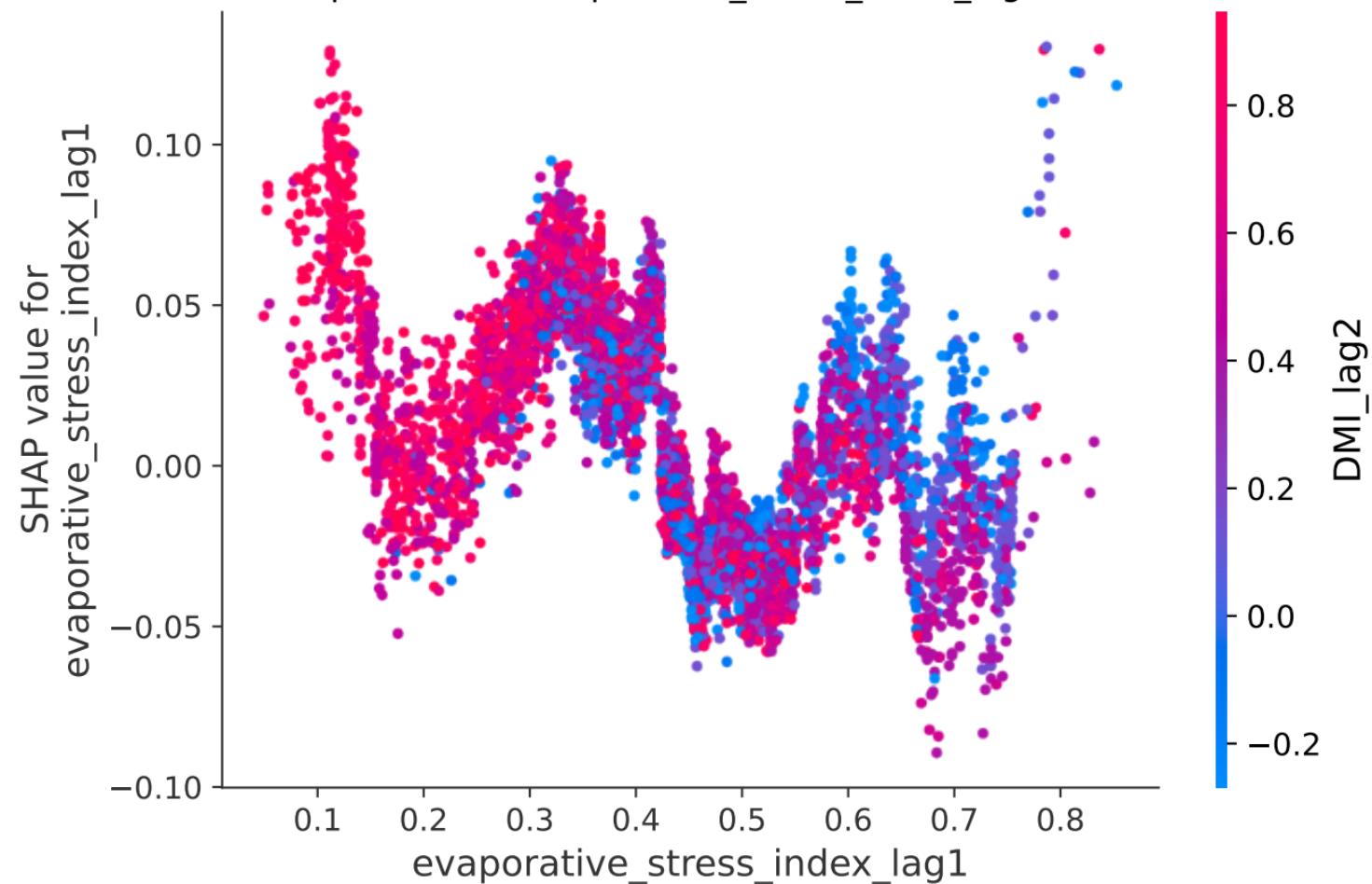
SHAP Dependence - total_evaporation_sum_lag2 - Class 2



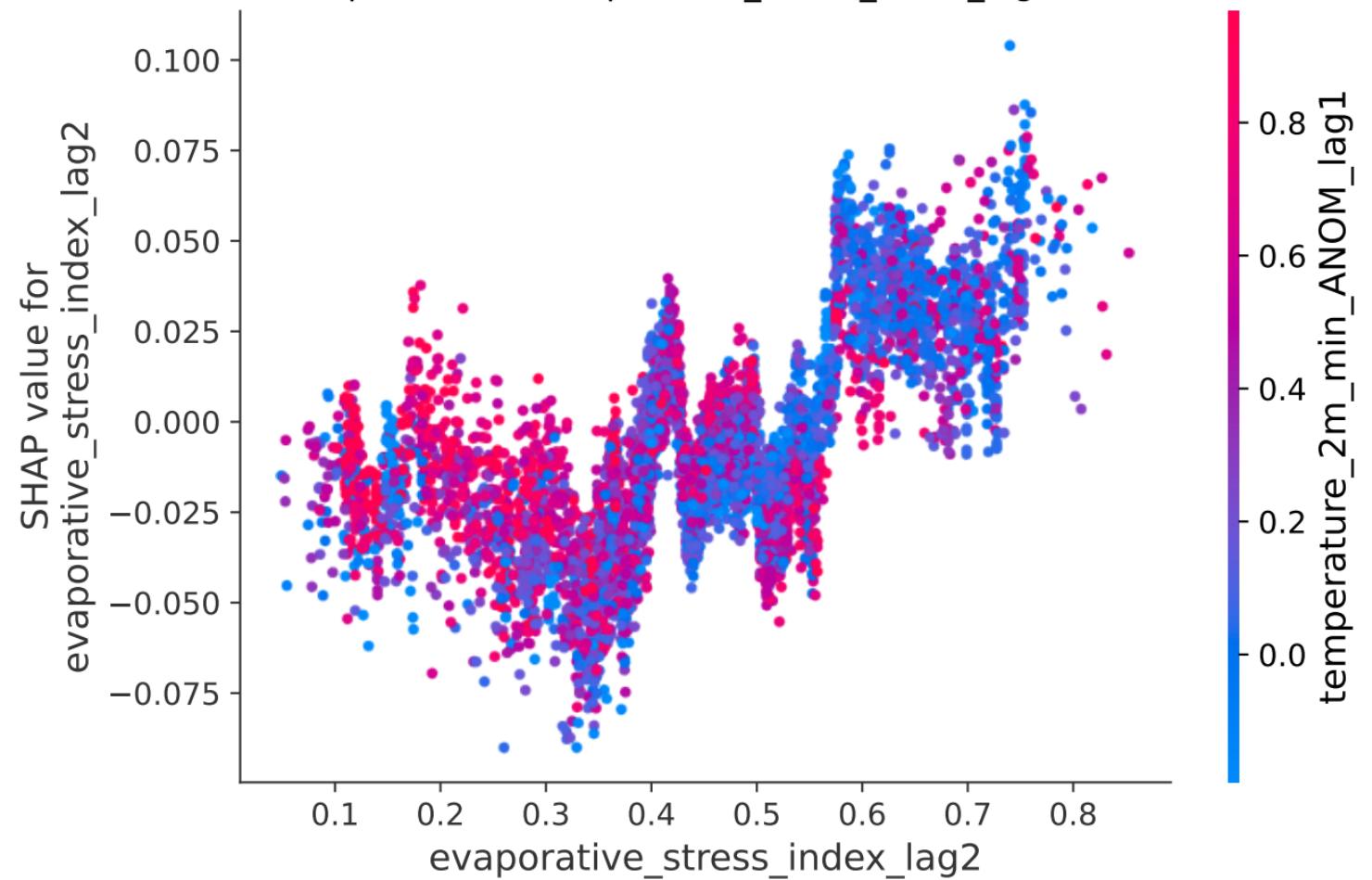
SHAP Dependence - total_evaporation_sum_lag3 - Class 2



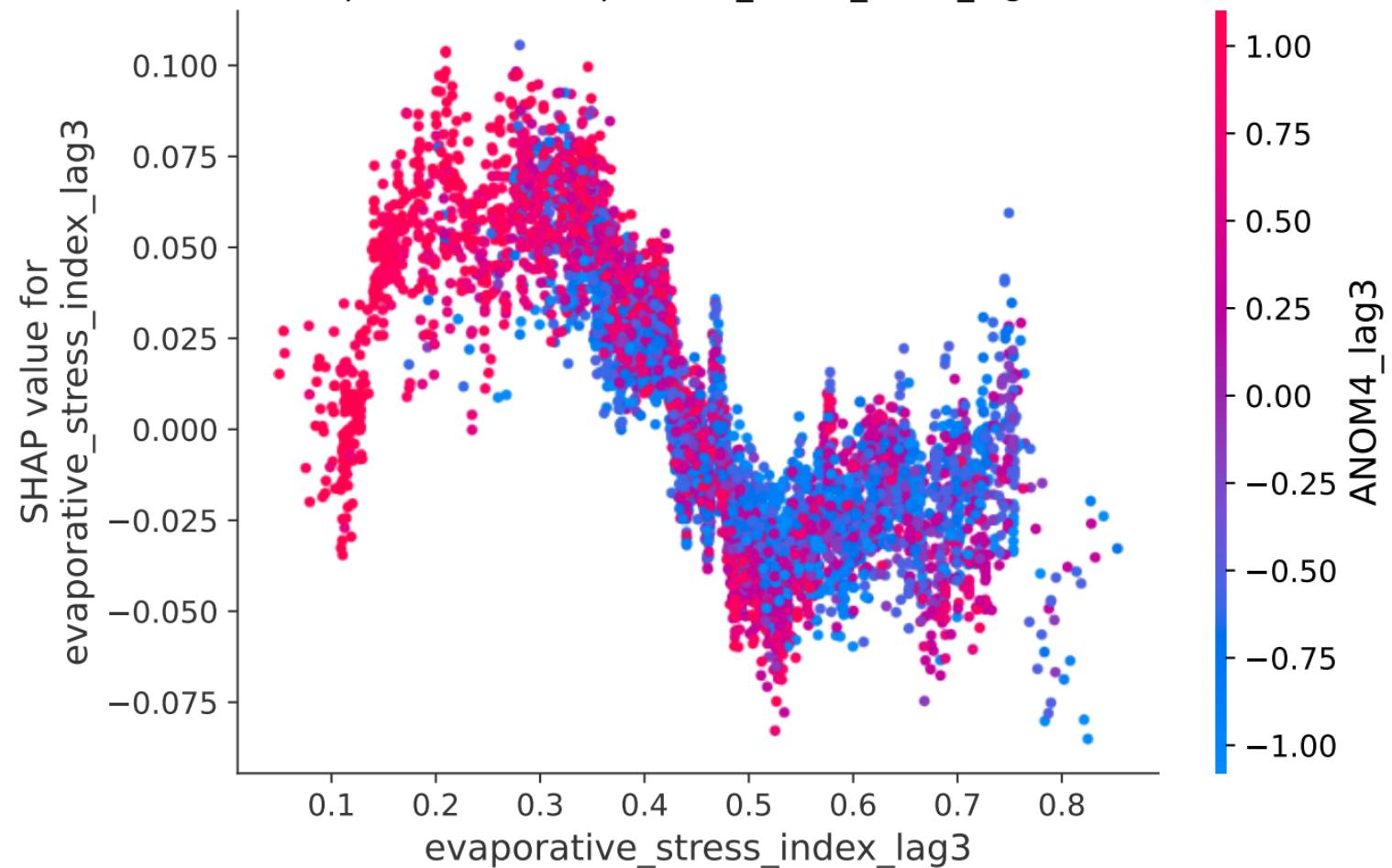
SHAP Dependence - evaporative_stress_index_lag1 - Class 2



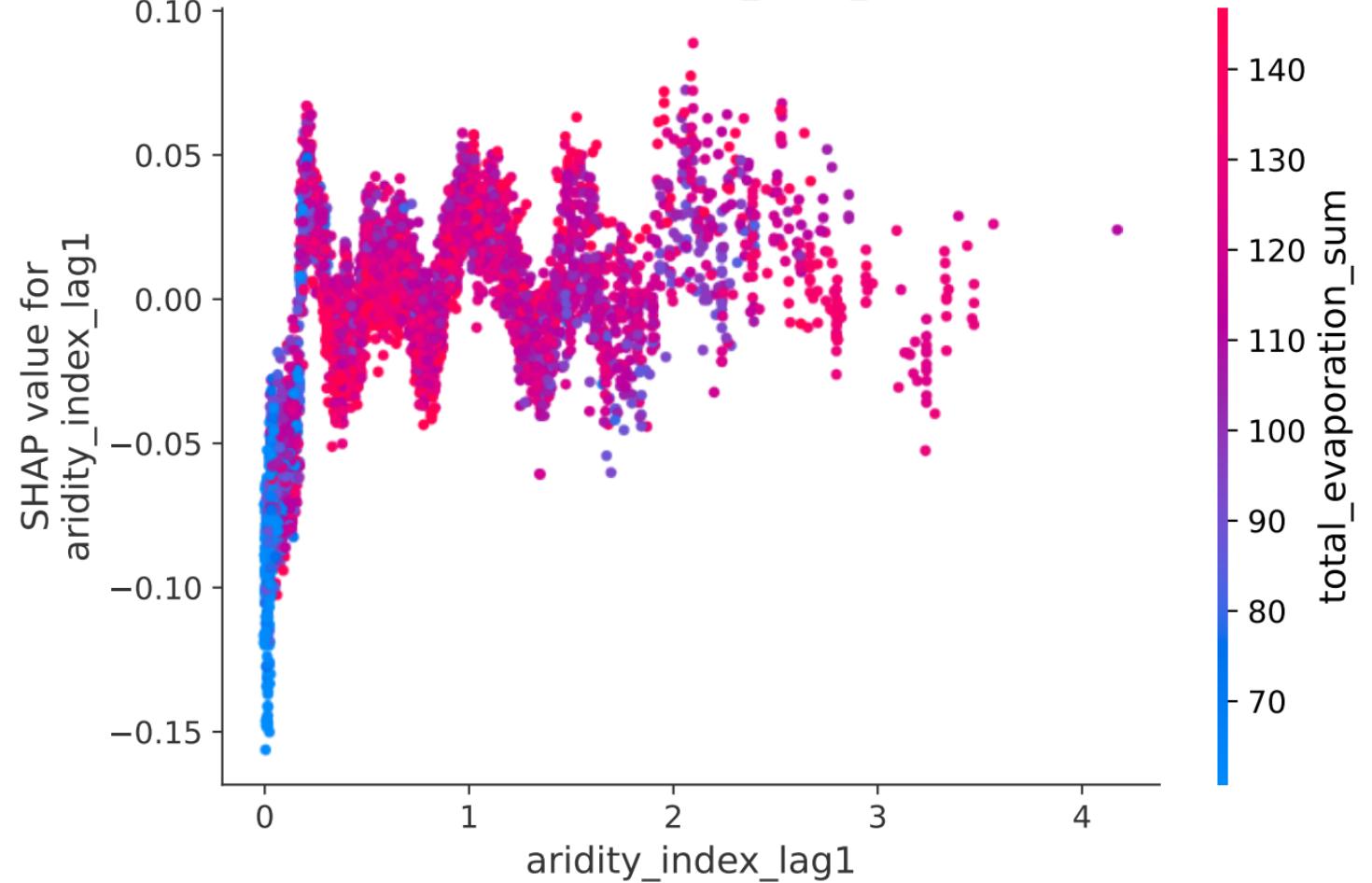
SHAP Dependence - evaporative_stress_index_lag2 - Class 2



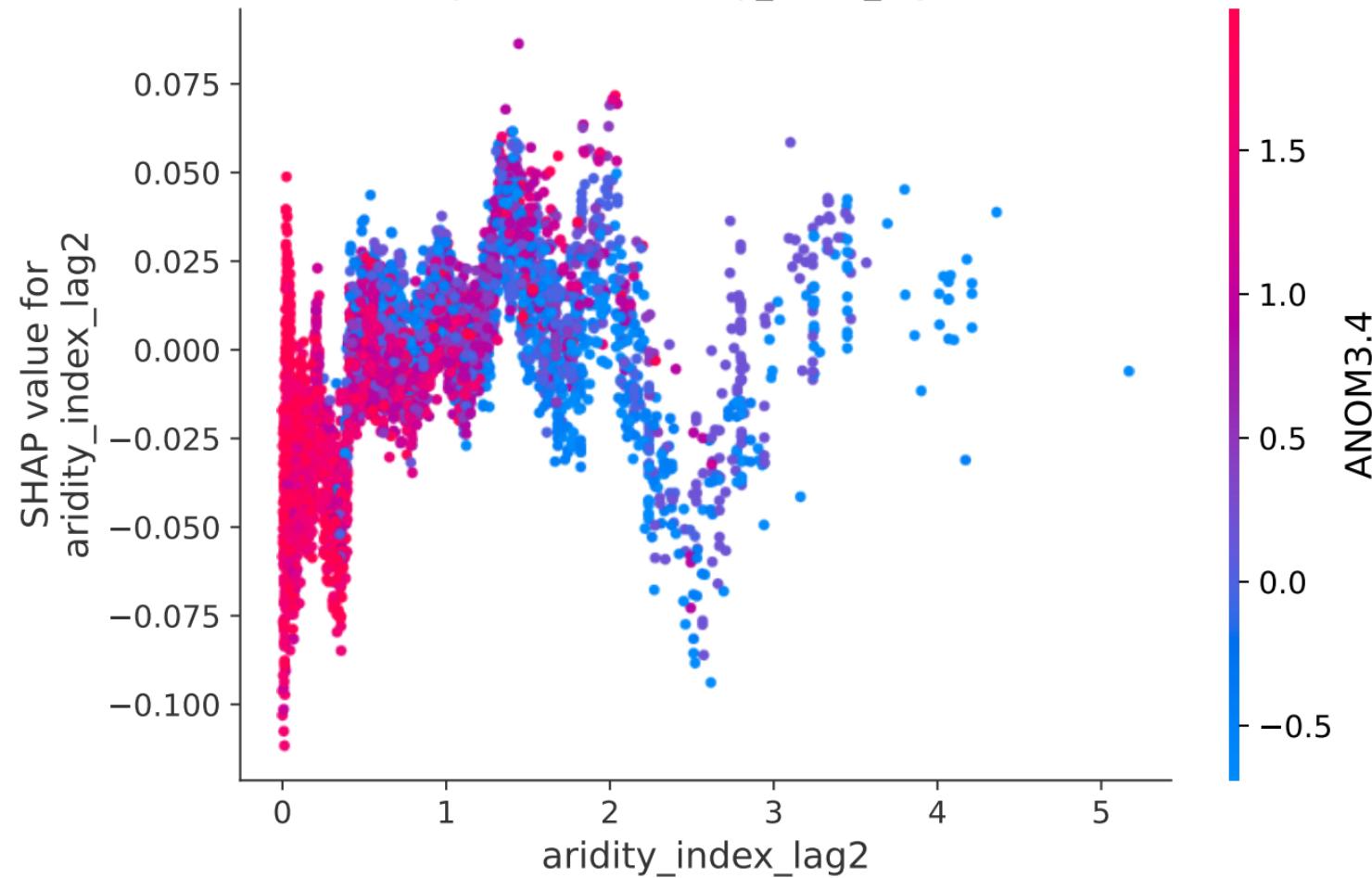
SHAP Dependence - evaporative_stress_index_lag3 - Class 2



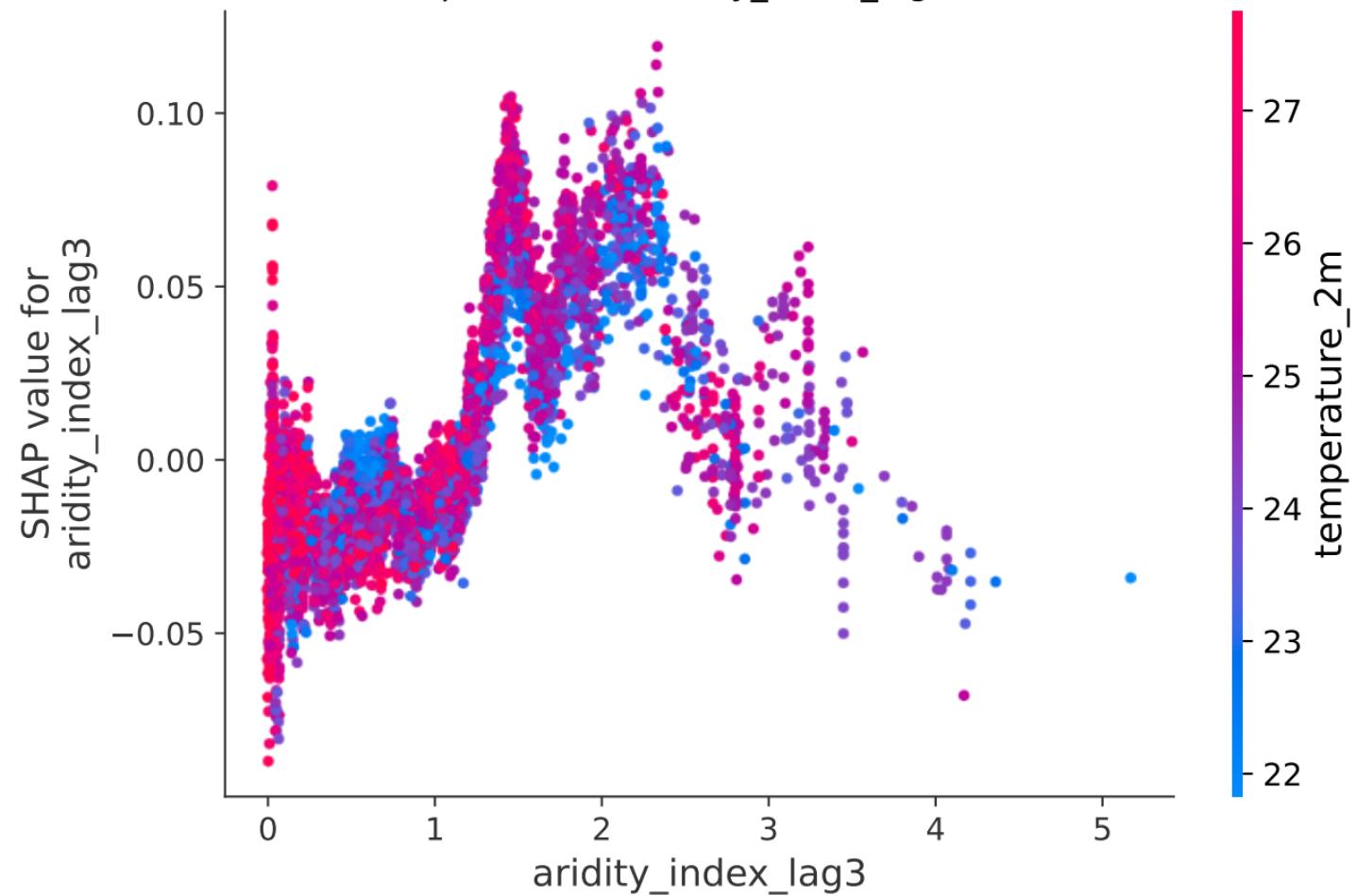
SHAP Dependence - aridity_index_lag1 - Class 2



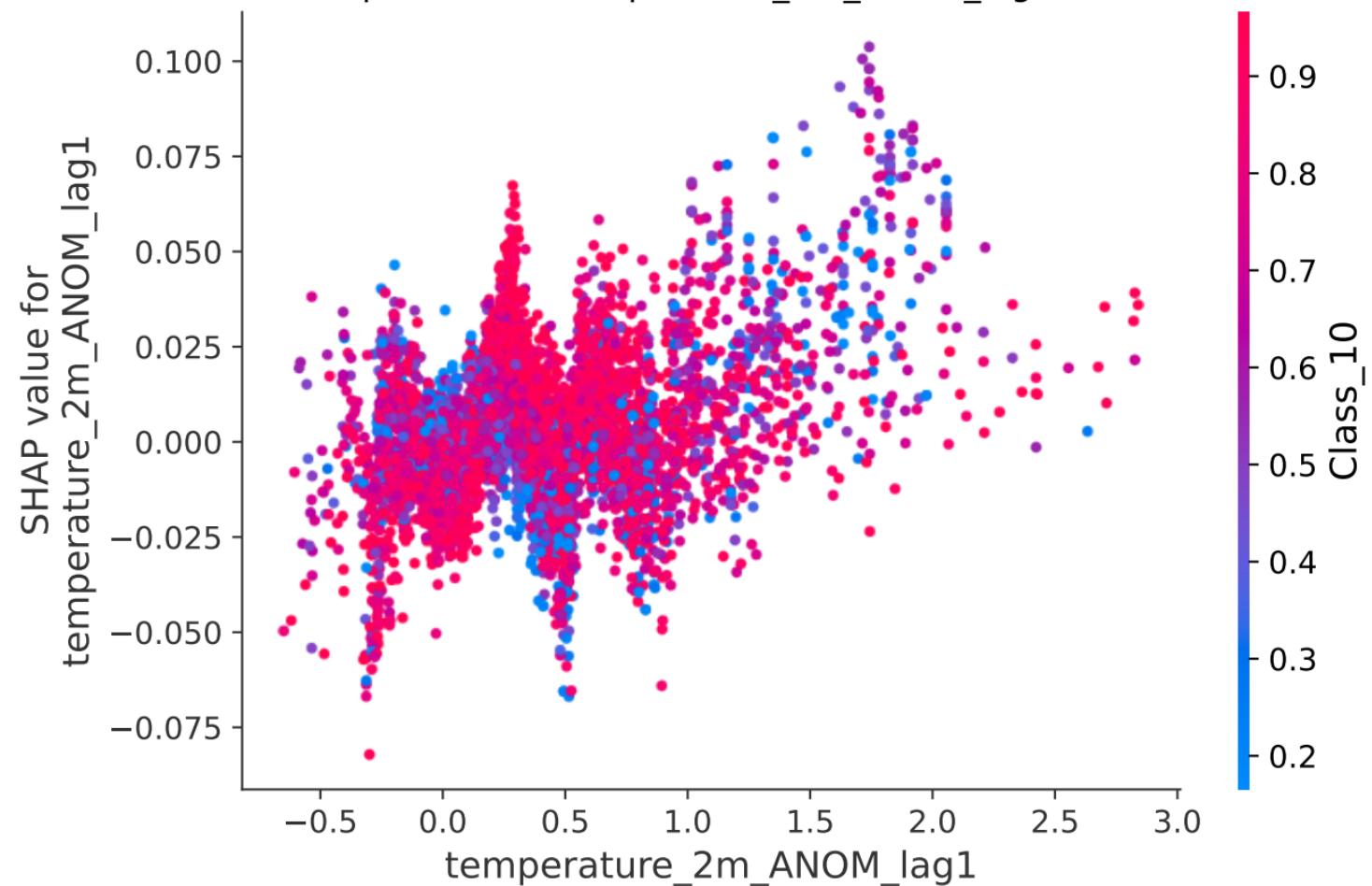
SHAP Dependence - aridity_index_lag2 - Class 2



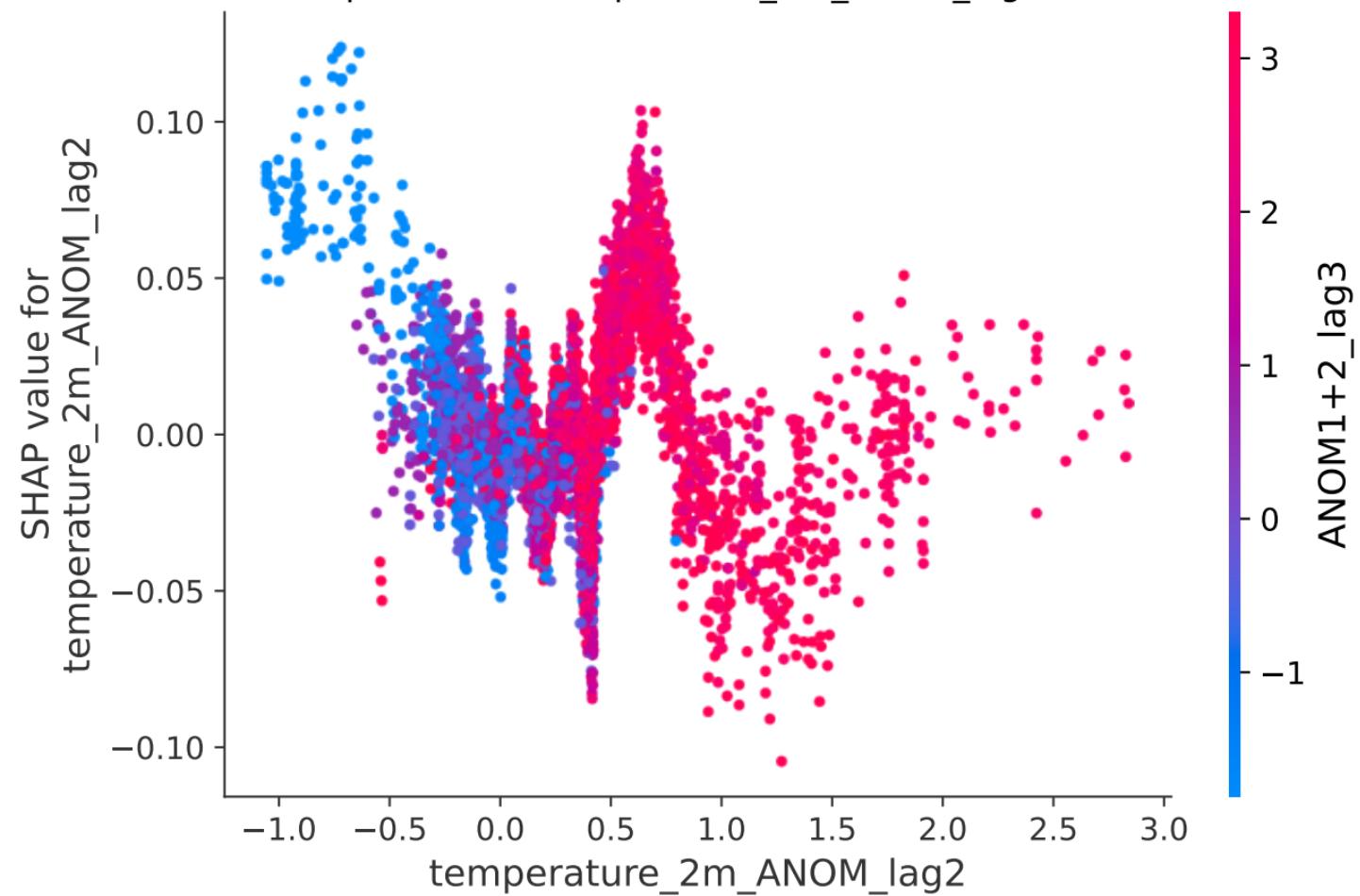
SHAP Dependence - aridity_index_lag3 - Class 2



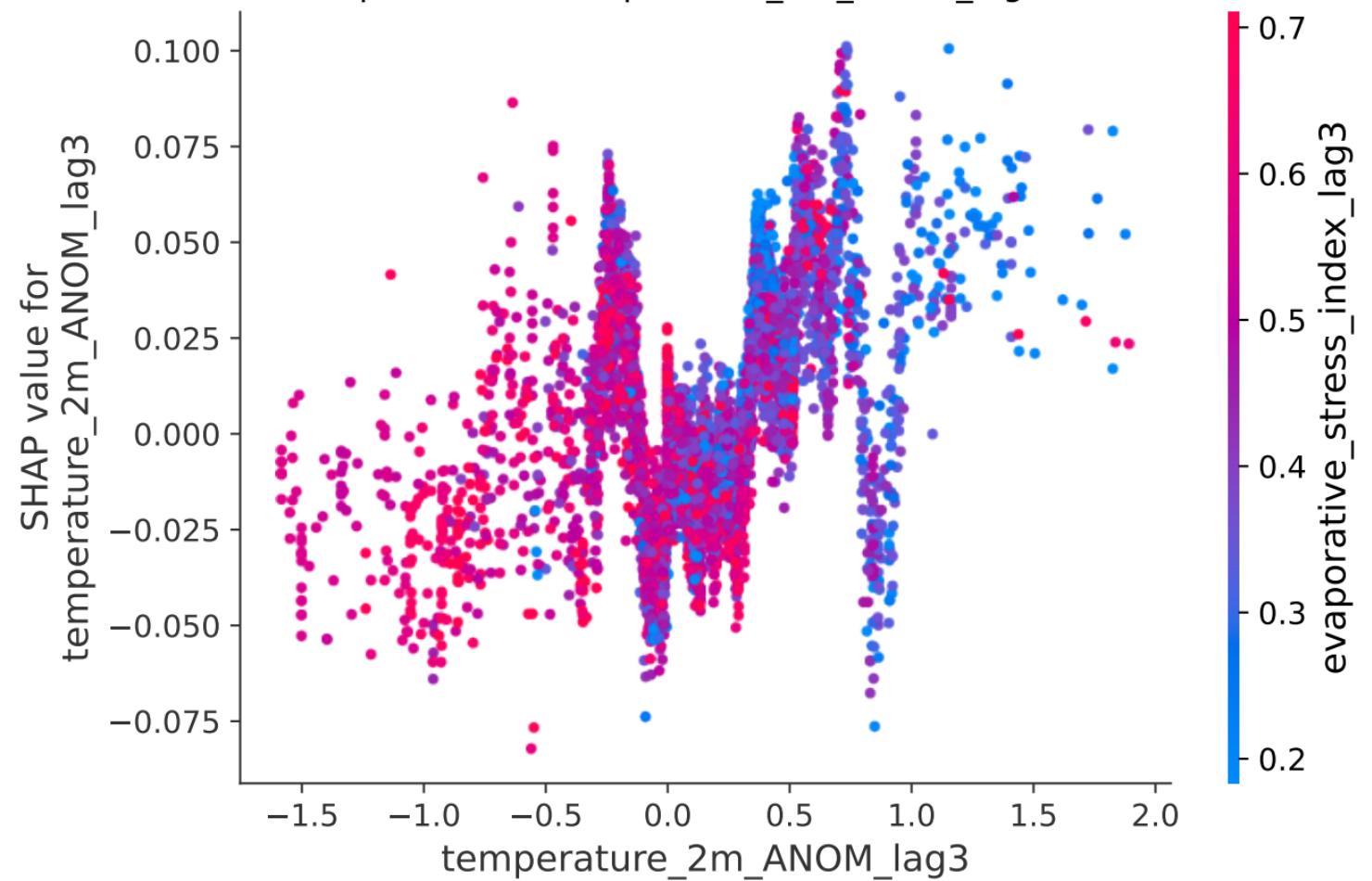
SHAP Dependence - temperature_2m_ANOM_lag1 - Class 2



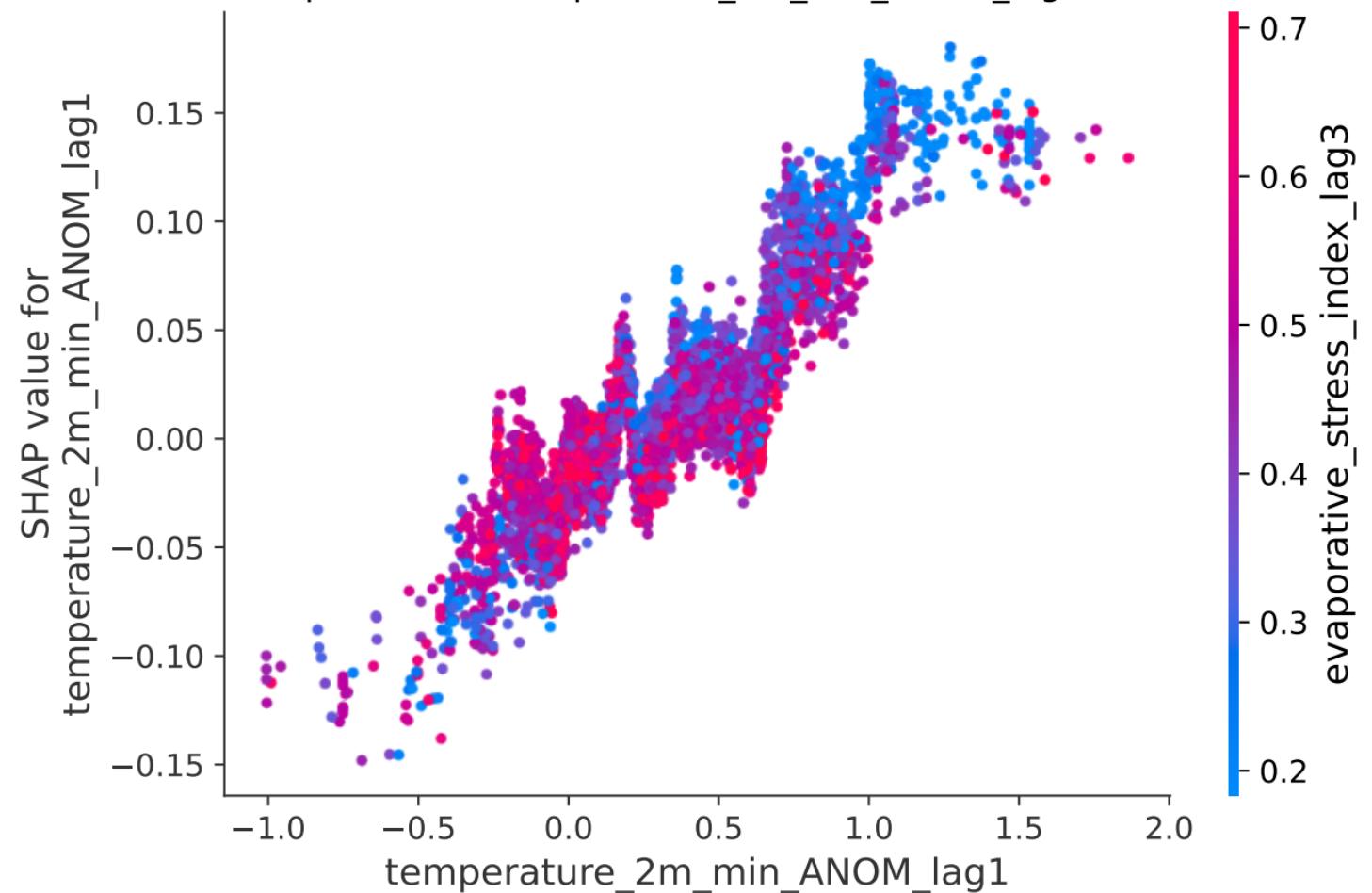
SHAP Dependence - temperature_2m_ANOM_lag2 - Class 2



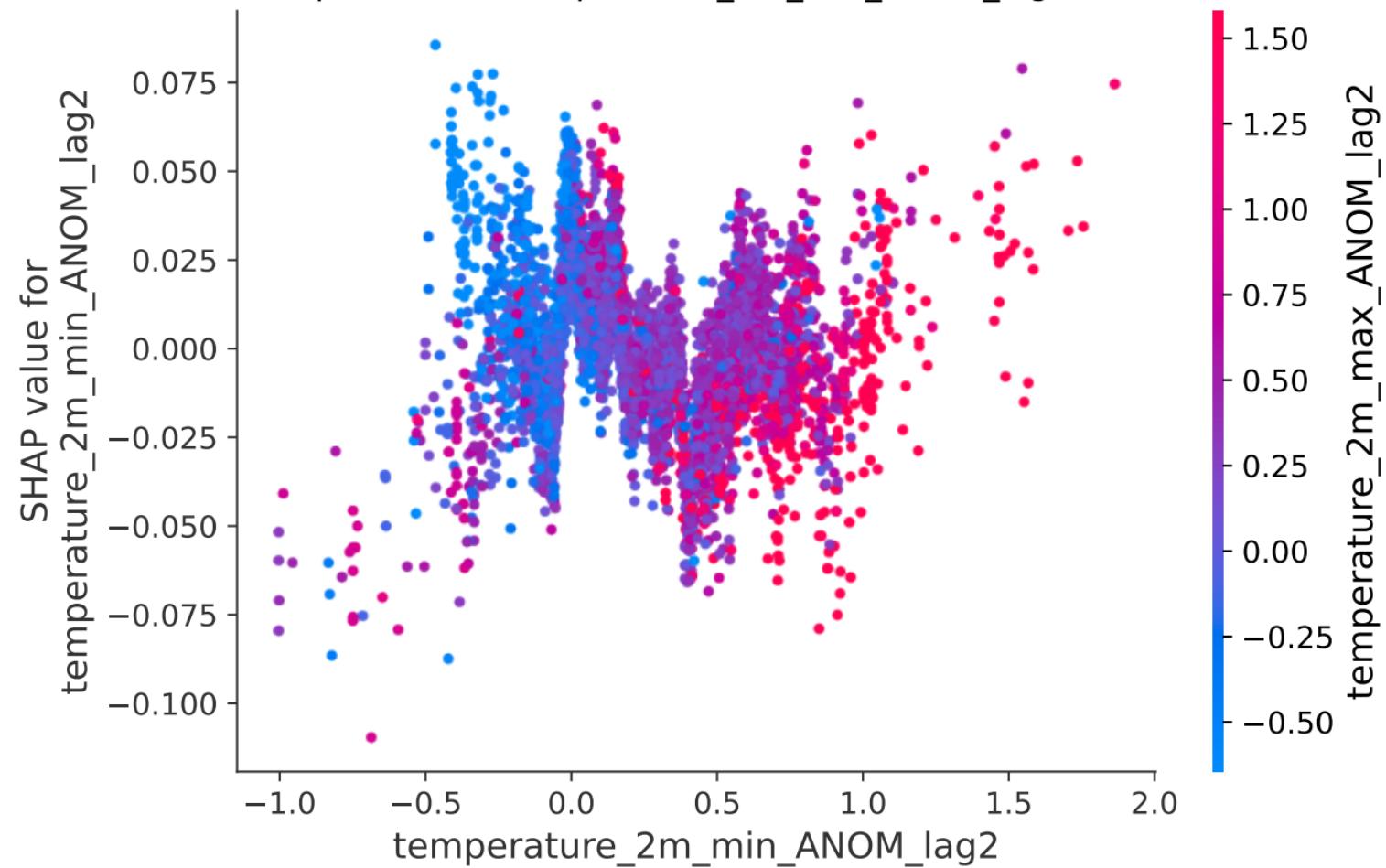
SHAP Dependence - temperature_2m_ANOM_lag3 - Class 2



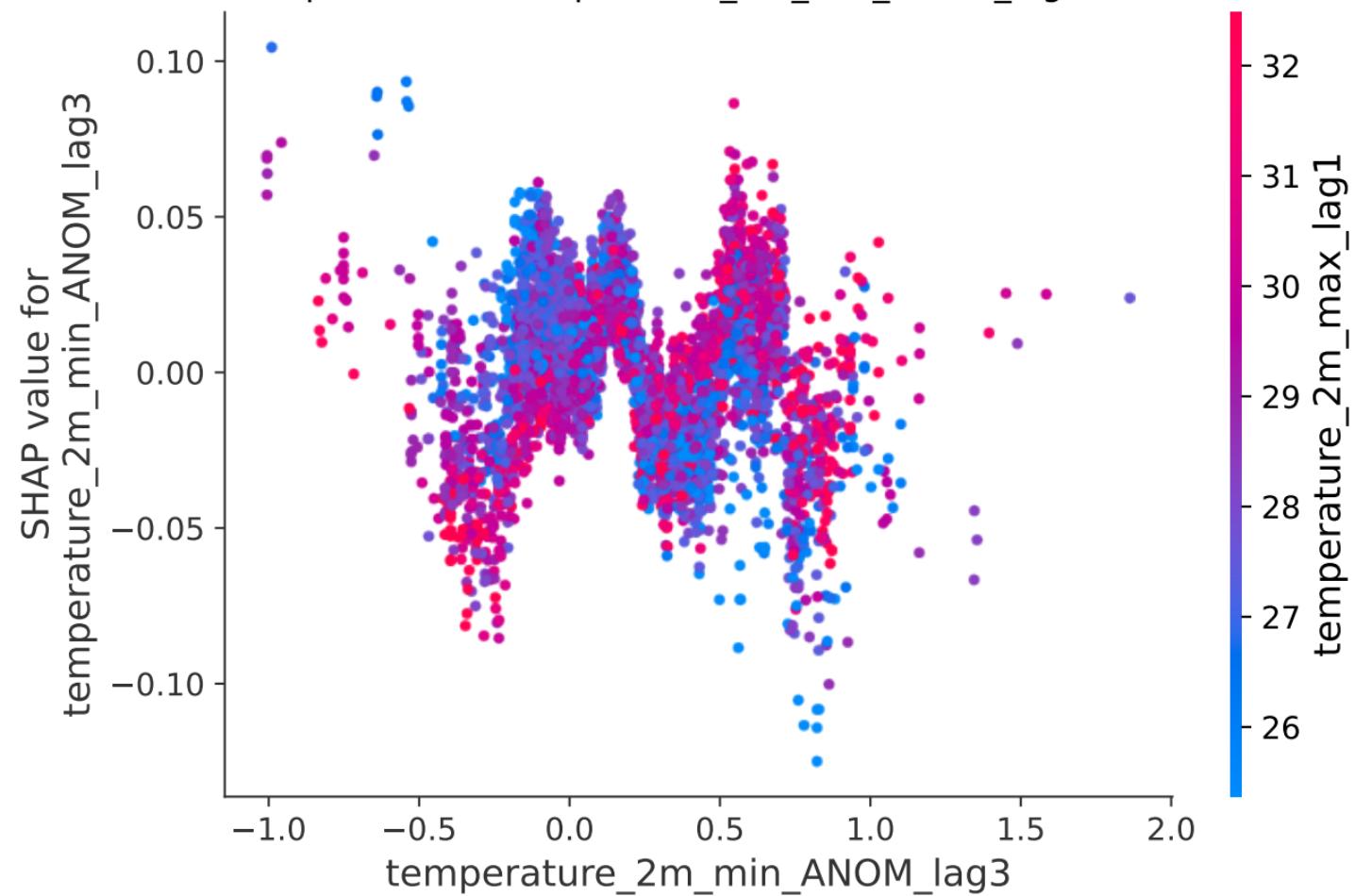
SHAP Dependence - temperature_2m_min_ANOM_lag1 - Class 2



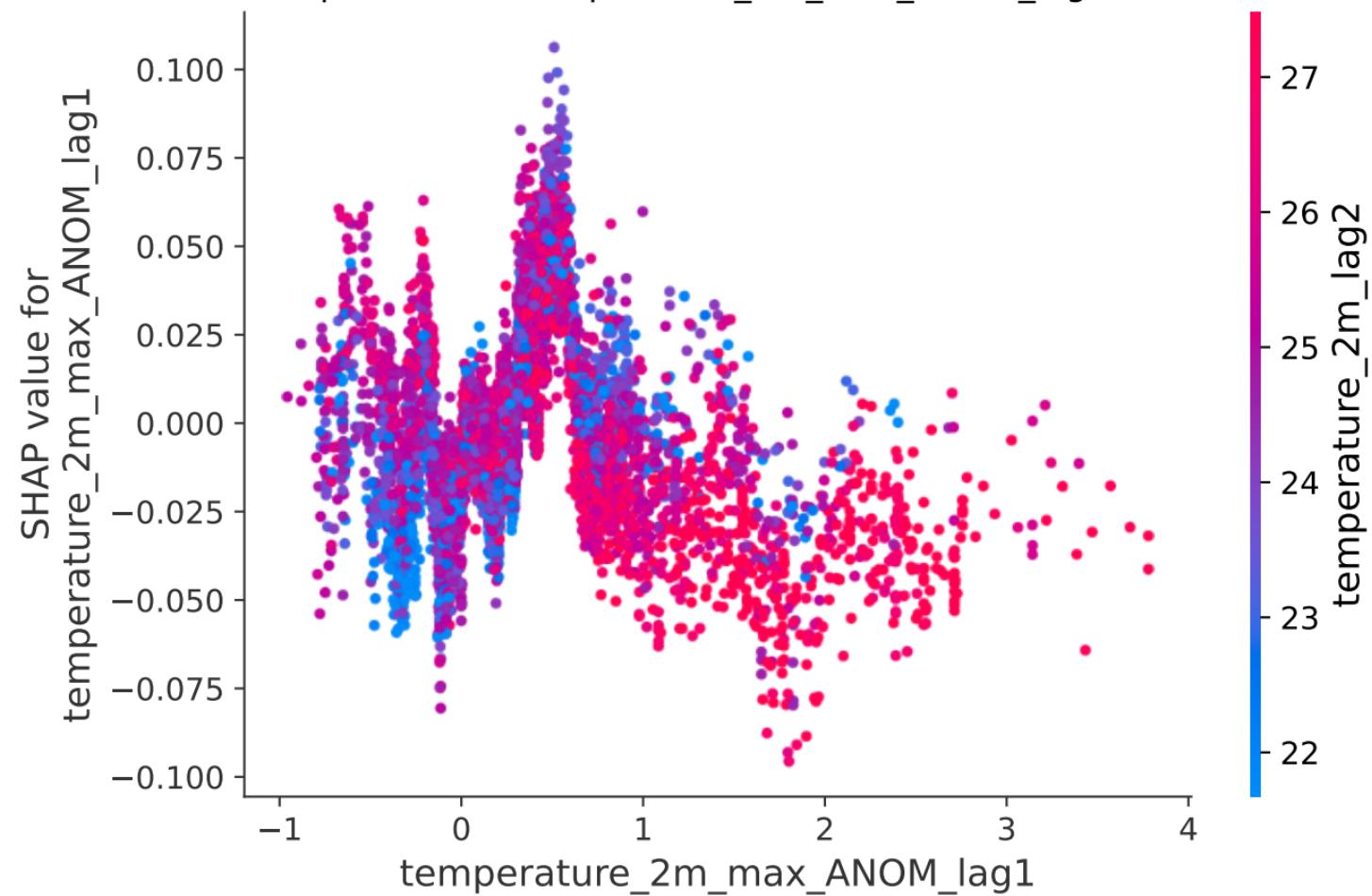
SHAP Dependence - temperature_2m_min_ANOM_lag2 - Class 2



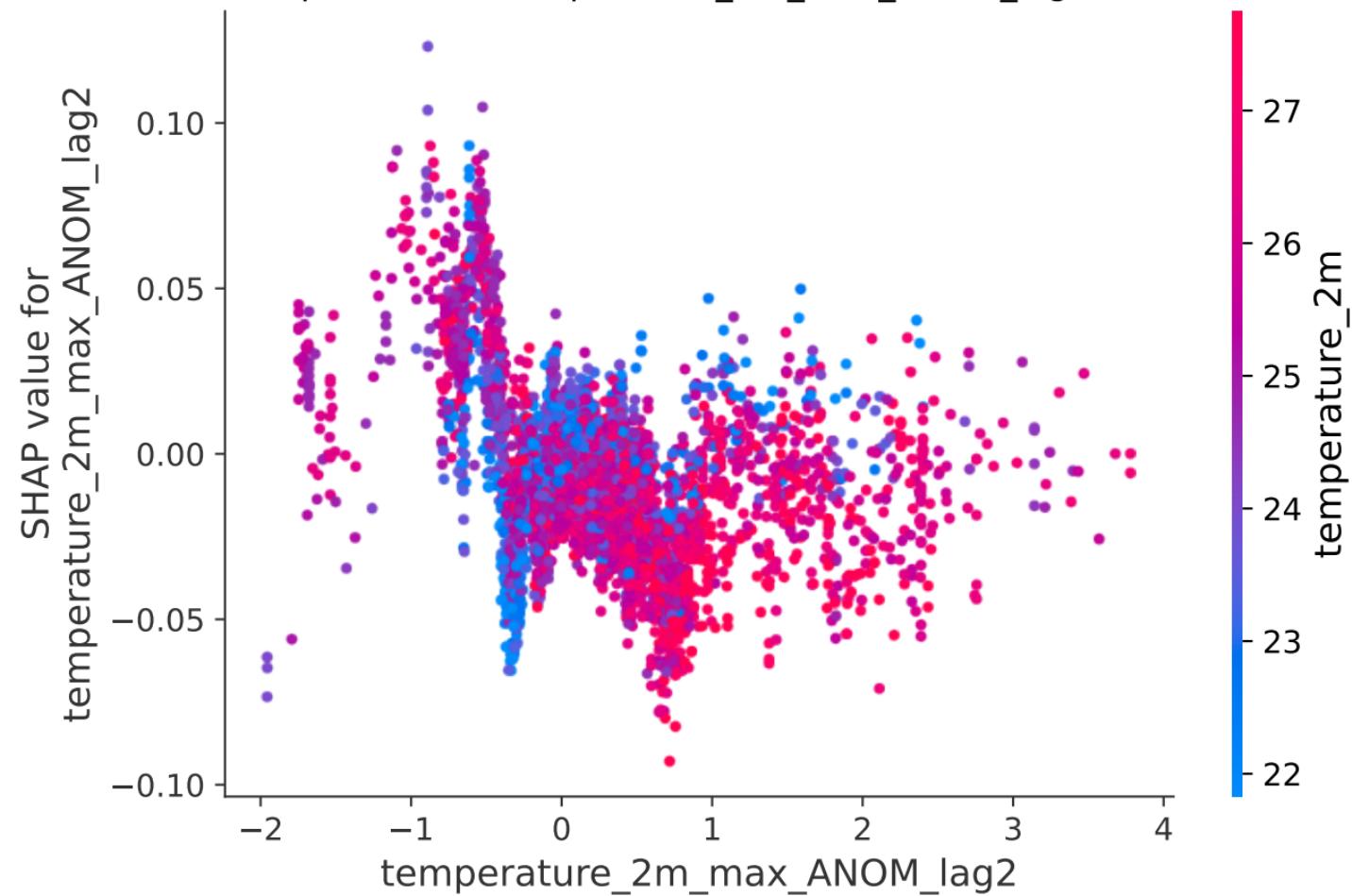
SHAP Dependence - temperature_2m_min_ANOM_lag3 - Class 2



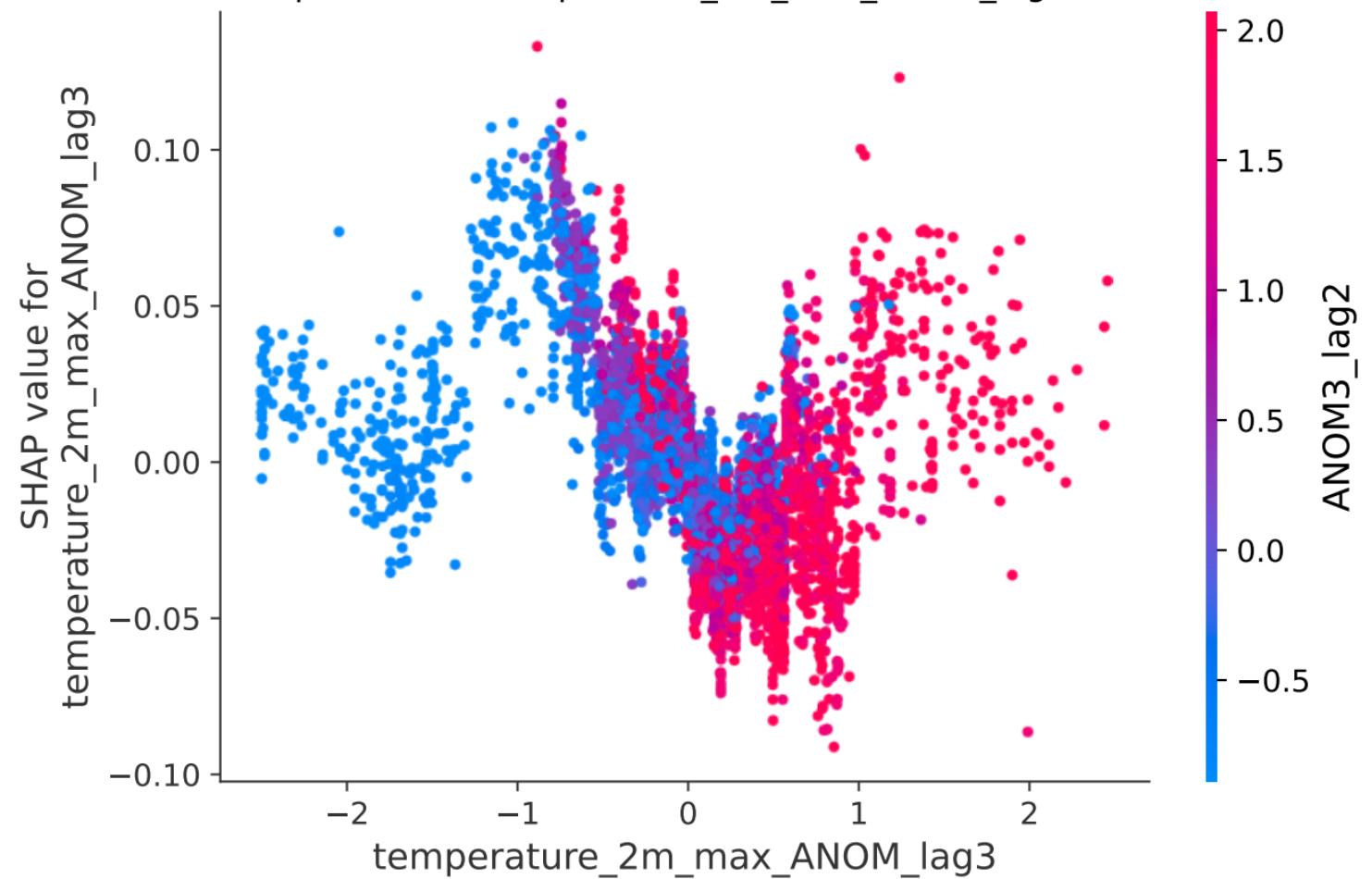
SHAP Dependence - temperature_2m_max_ANOM_lag1 - Class 2



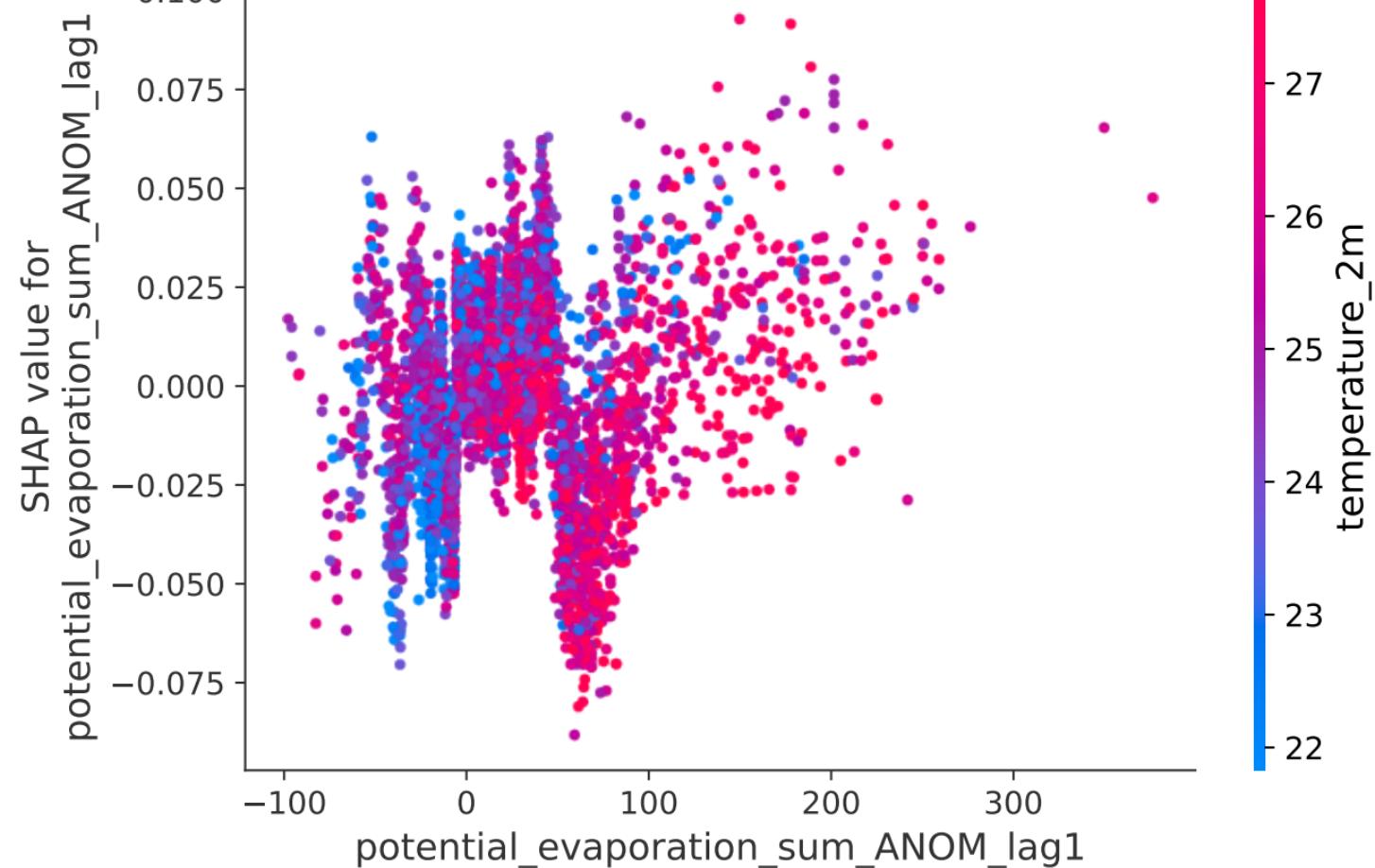
SHAP Dependence - temperature_2m_max_ANOM_lag2 - Class 2



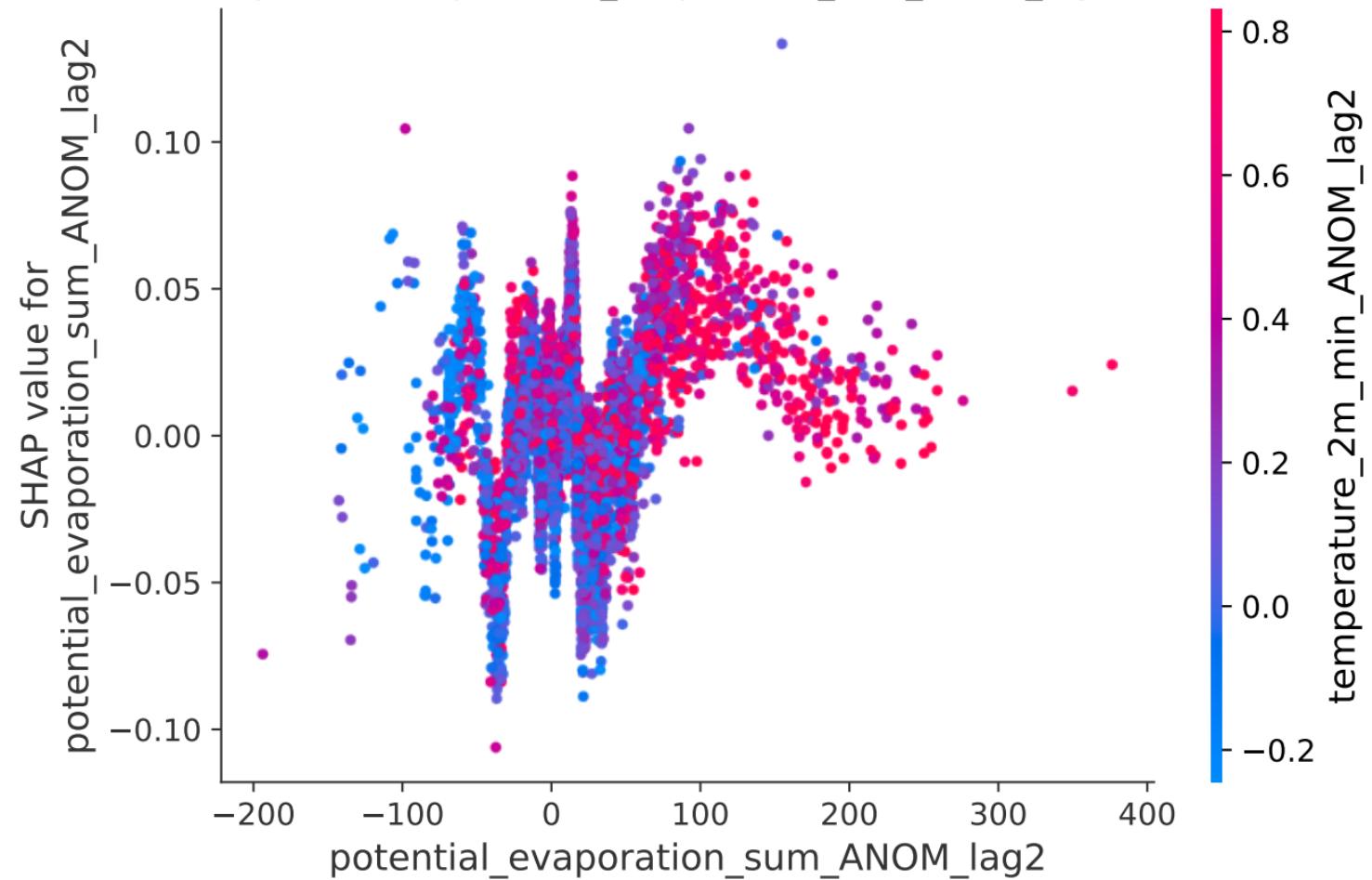
SHAP Dependence - temperature_2m_max_ANOM_lag3 - Class 2



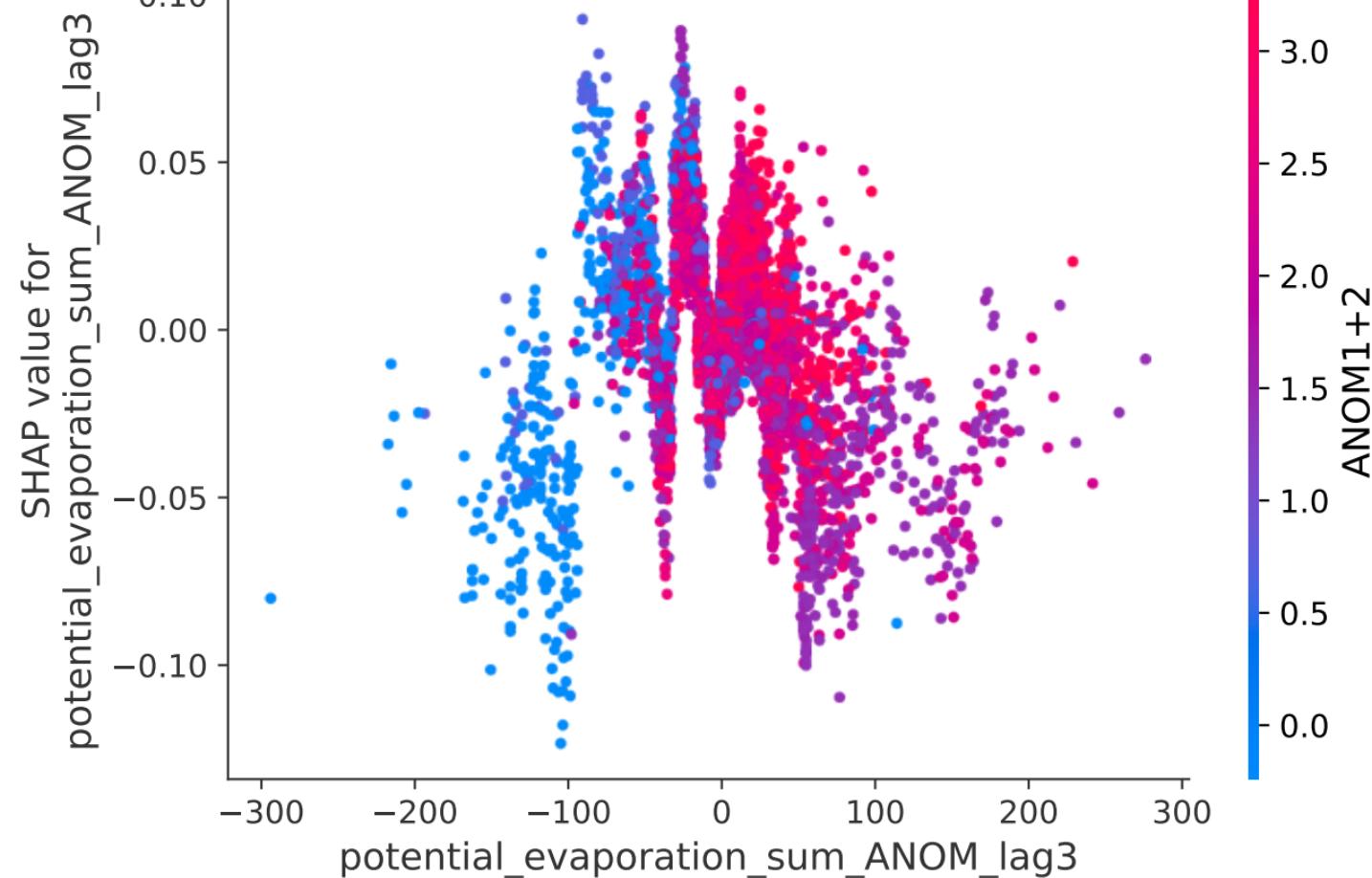
SHAP Dependence - potential_evaporation_sum_ANOM_lag1 - Class 2



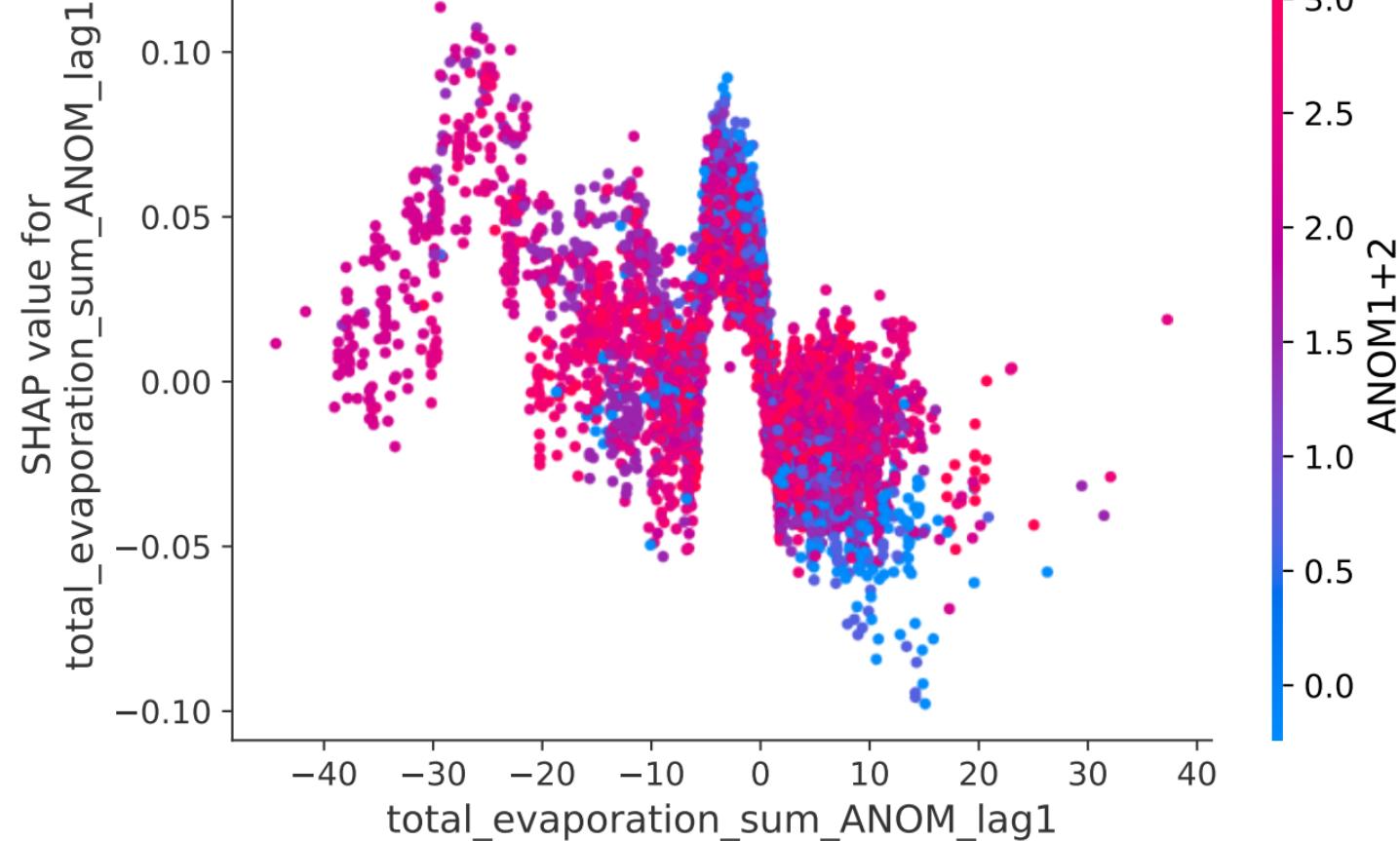
SHAP Dependence - potential_evaporation_sum_ANOM_lag2 - Class 2



SHAP Dependence - potential_evaporation_sum_ANOM_lag3 - Class 2

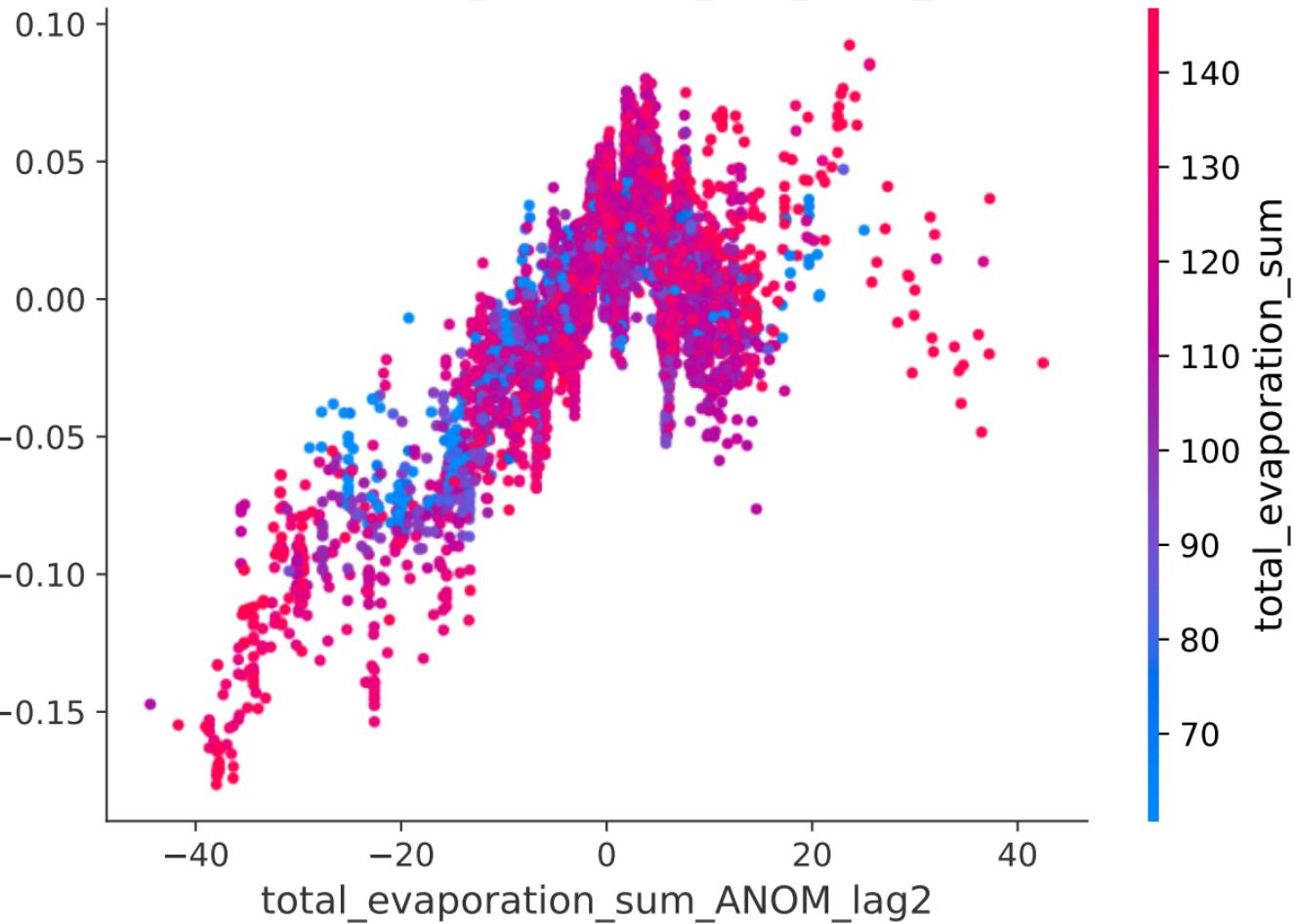


SHAP Dependence - total_evaporation_sum_ANOM_lag1 - Class 2

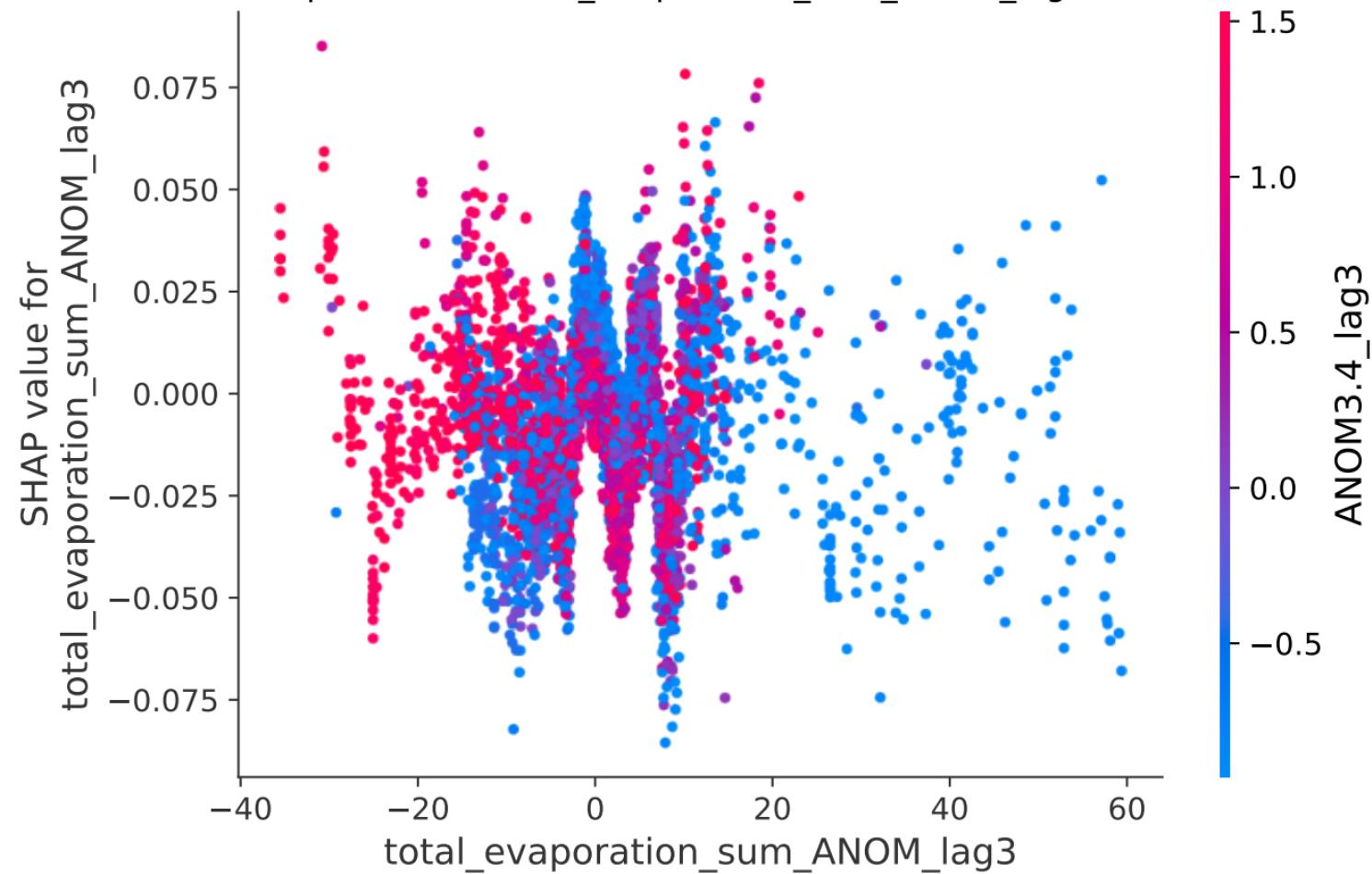


SHAP Dependence - total_evaporation_sum_ANOM_lag2 - Class 2

SHAP value for
total_evaporation_sum_ANOM_lag2

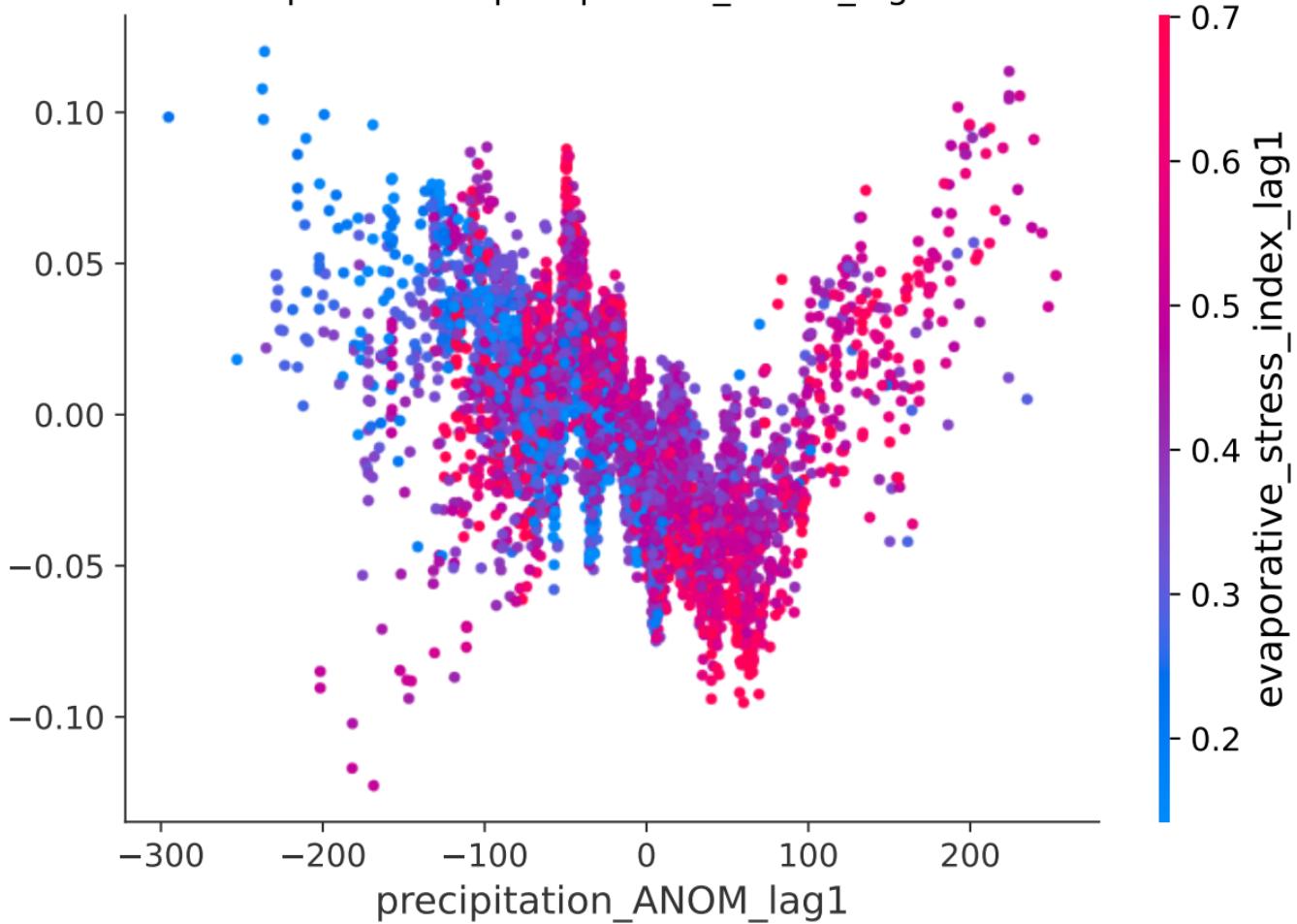


SHAP Dependence - total_evaporation_sum_ANOM_lag3 - Class 2

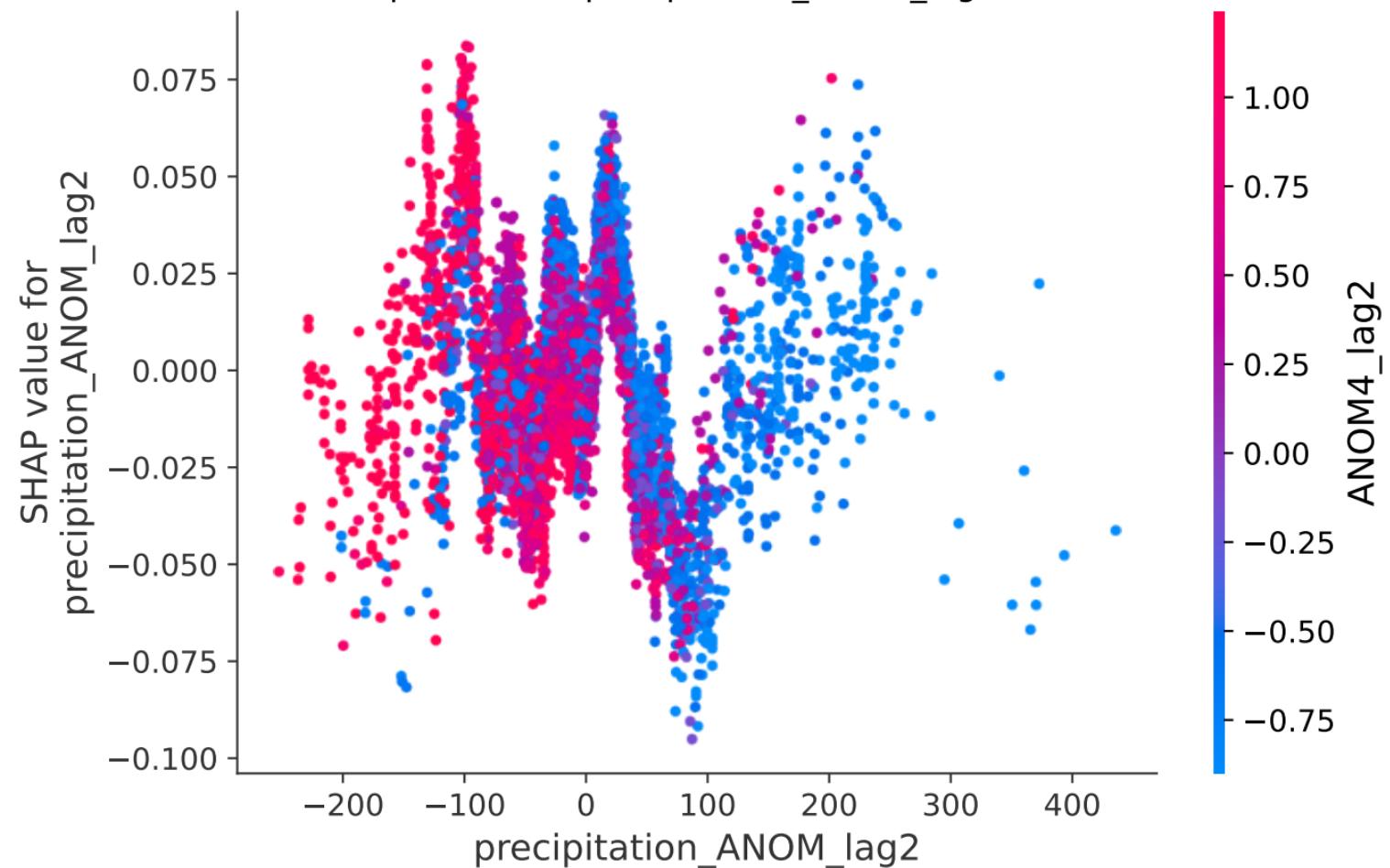


SHAP Dependence - precipitation_ANOM_lag1 - Class 2

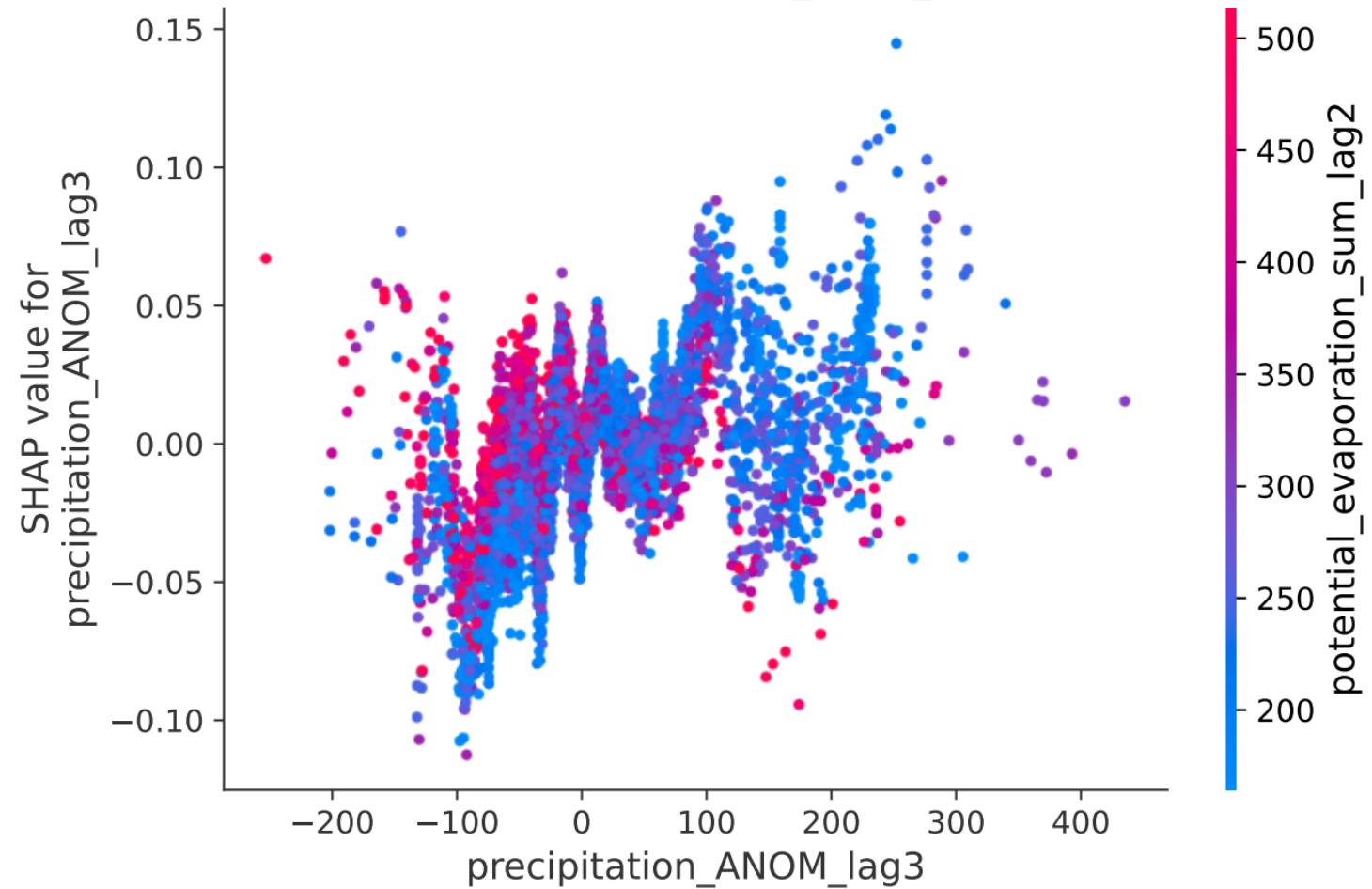
SHAP value for
precipitation_ANOM_lag1



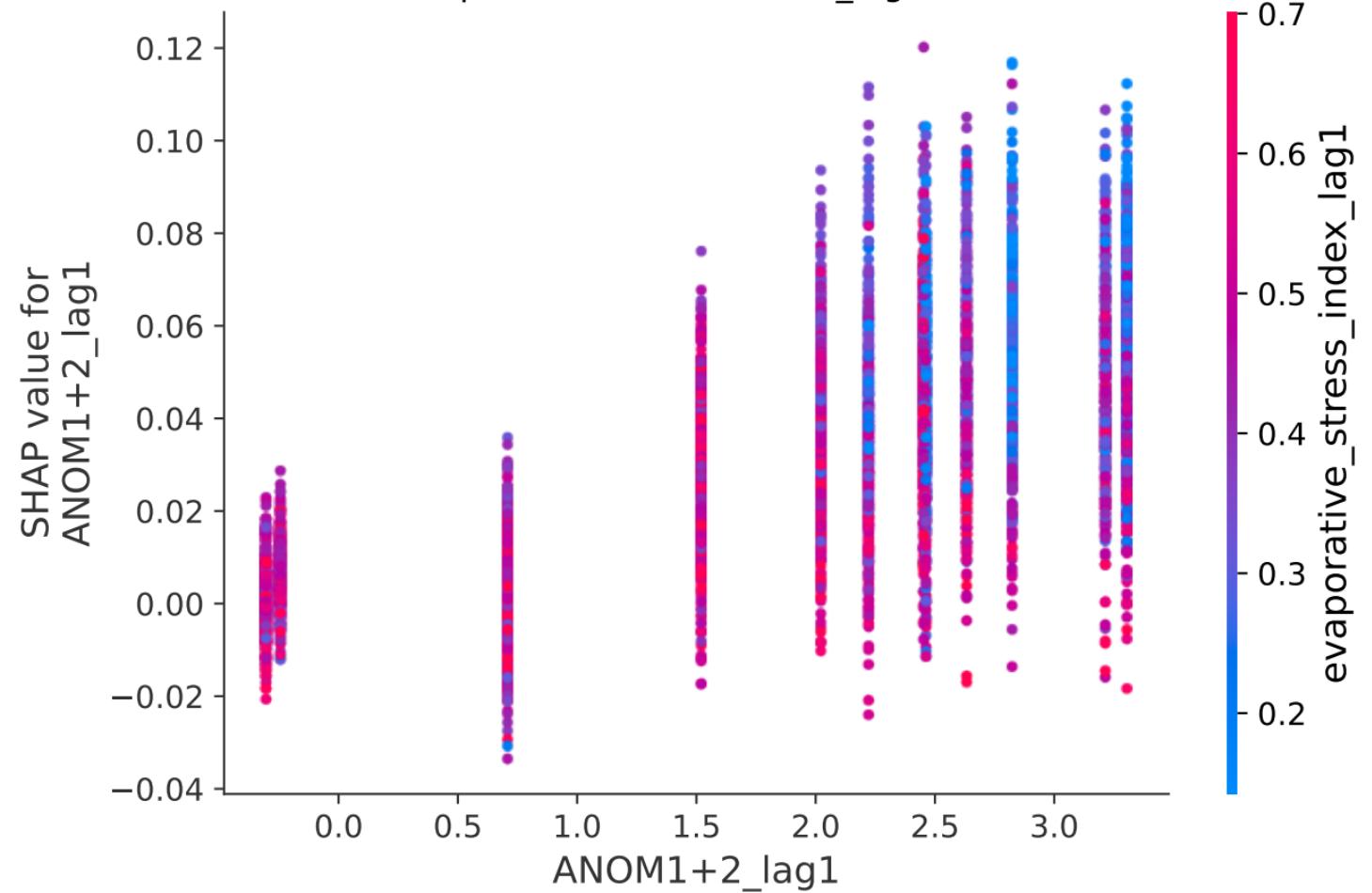
SHAP Dependence - precipitation_ANOM_lag2 - Class 2



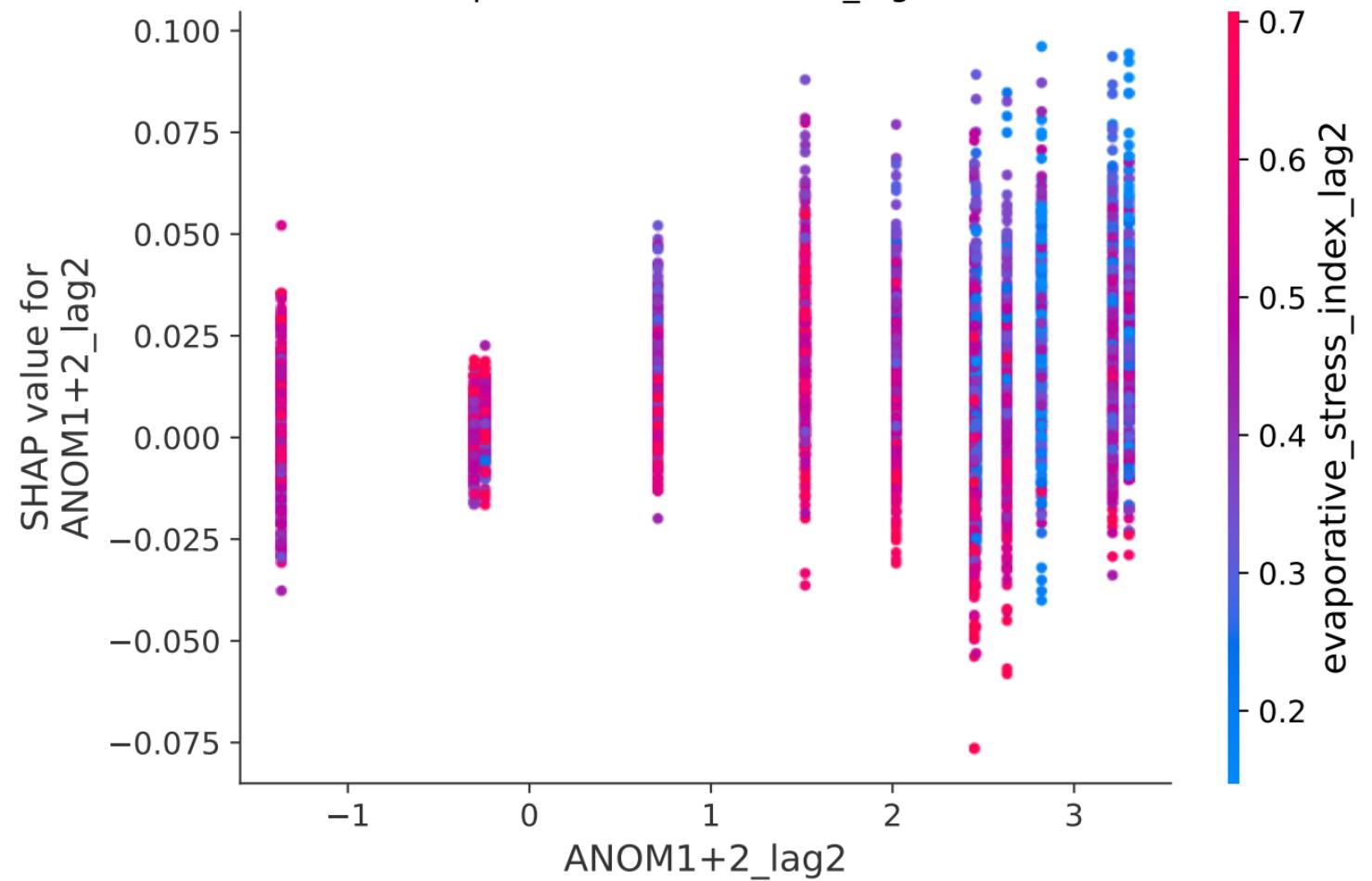
SHAP Dependence - precipitation_ANOM_lag3 - Class 2



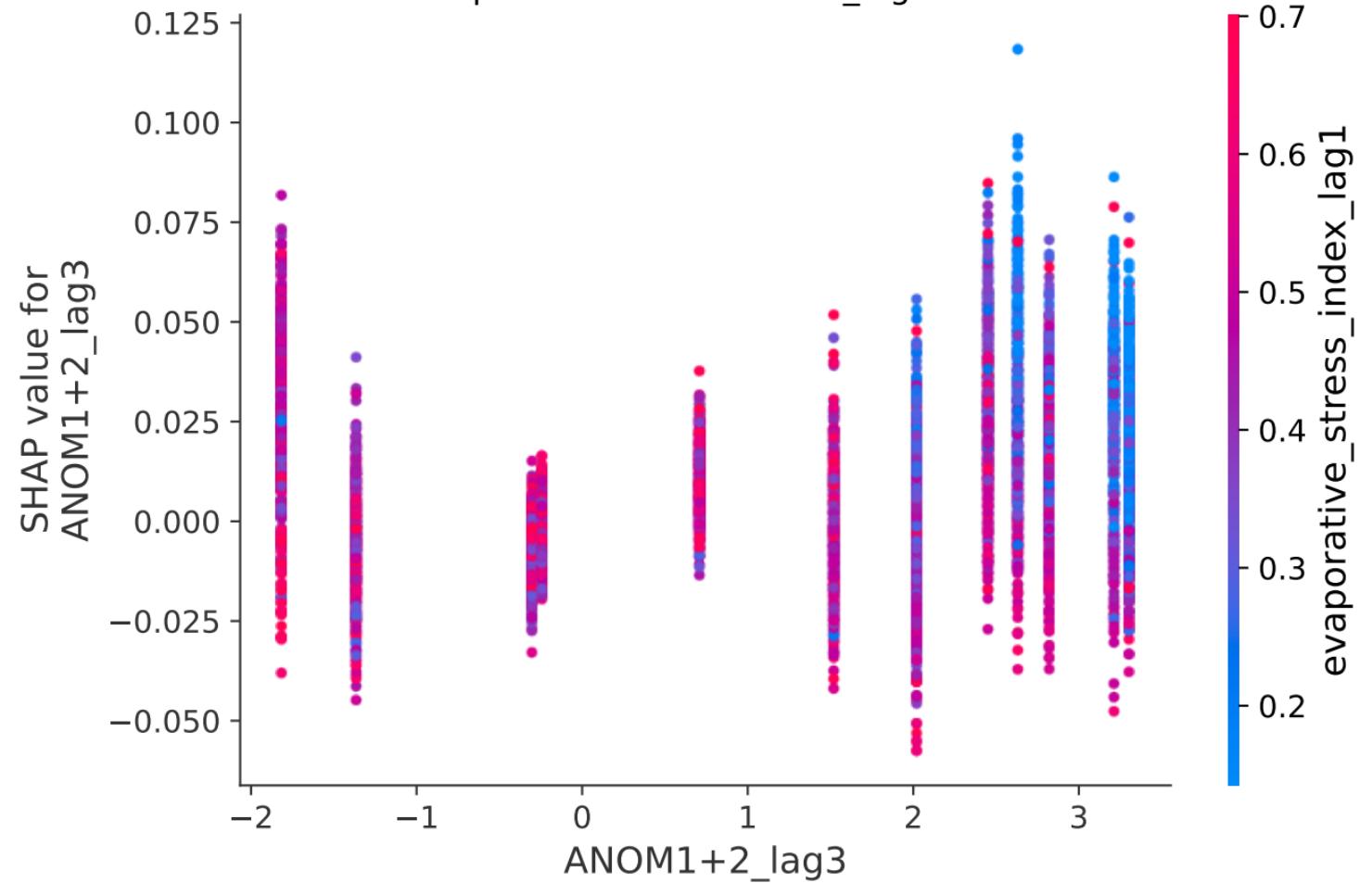
SHAP Dependence - ANOM1+2_lag1 - Class 2



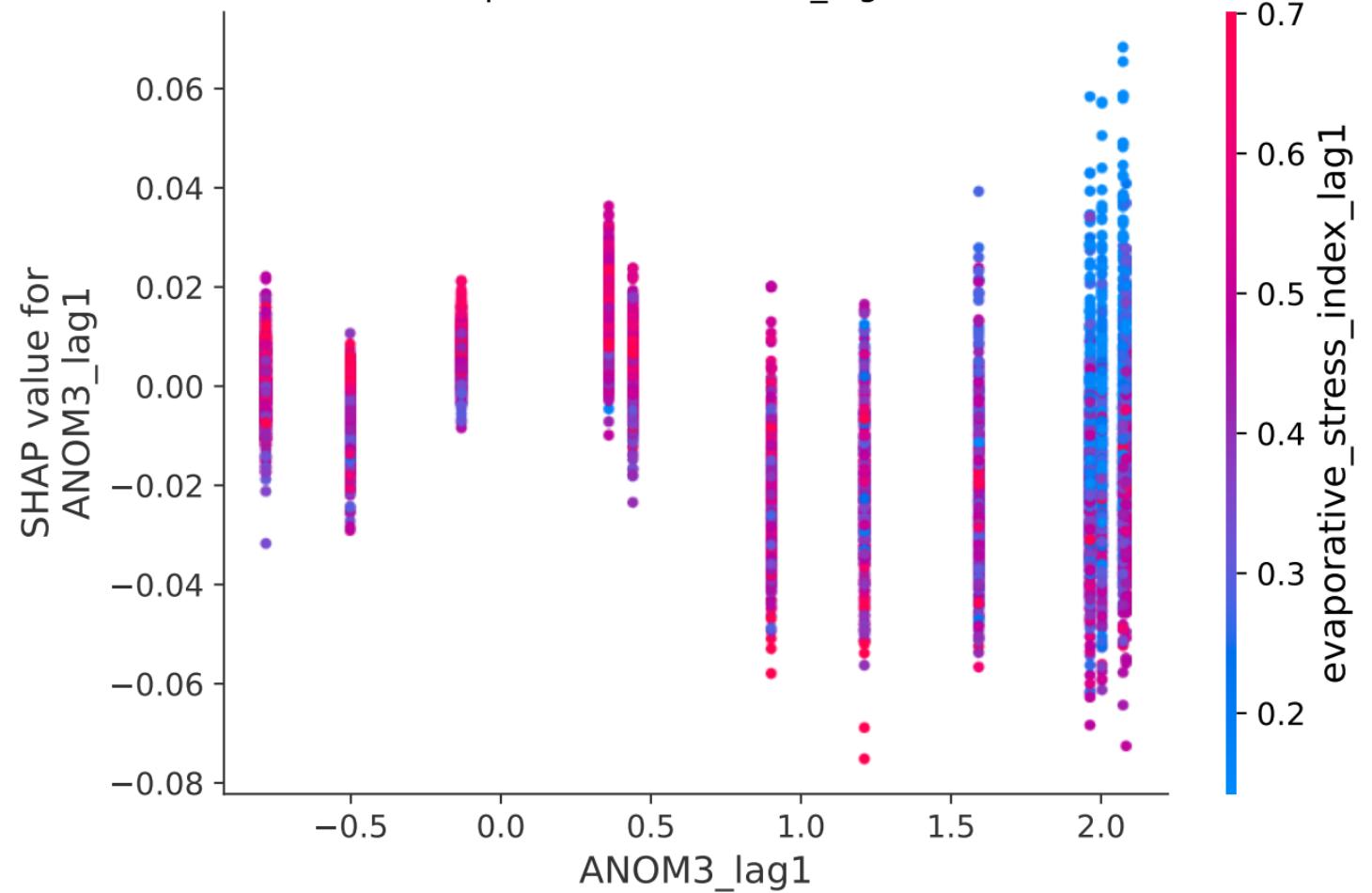
SHAP Dependence - ANOM1+2_lag2 - Class 2



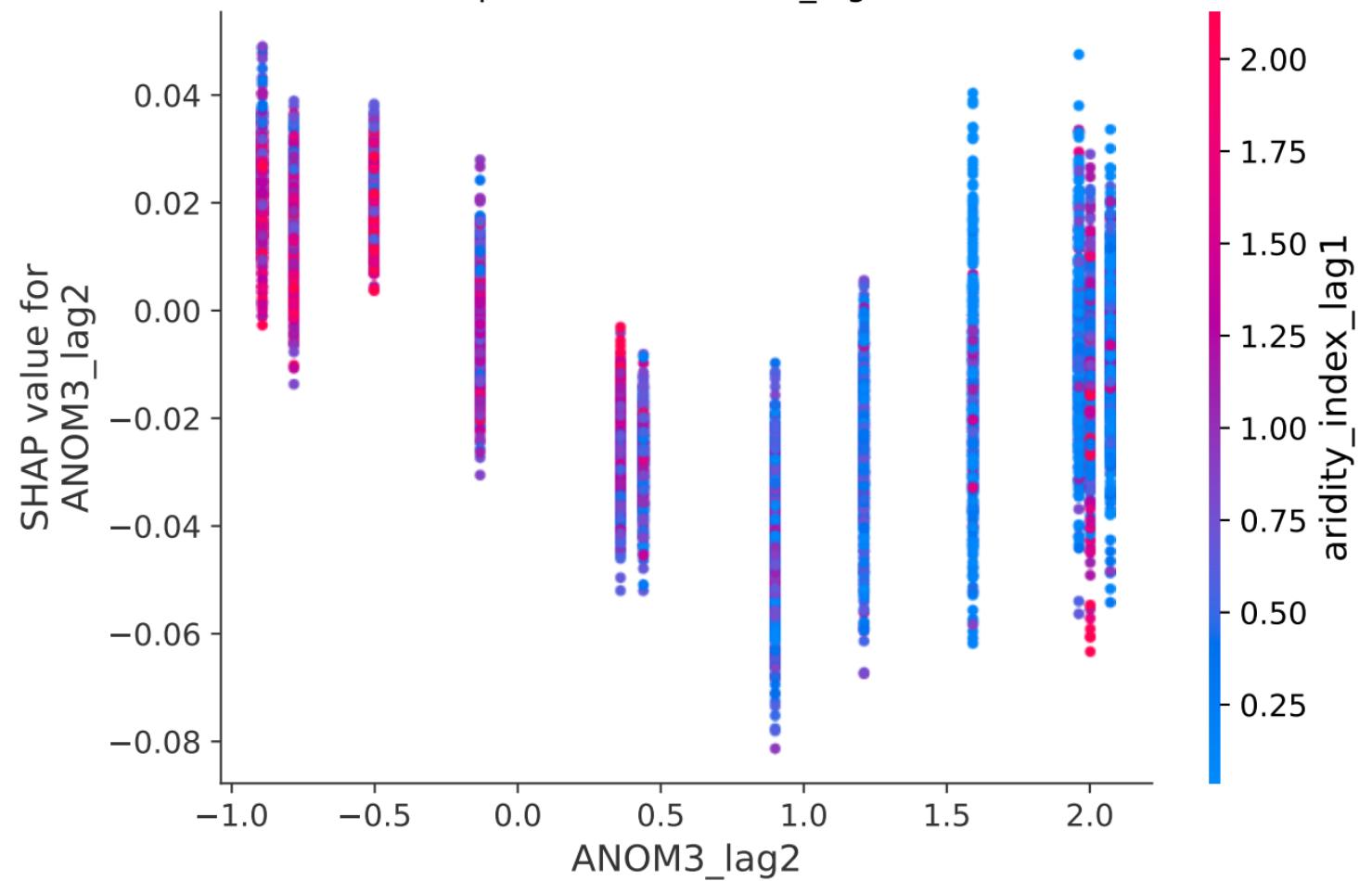
SHAP Dependence - ANOM1+2_lag3 - Class 2



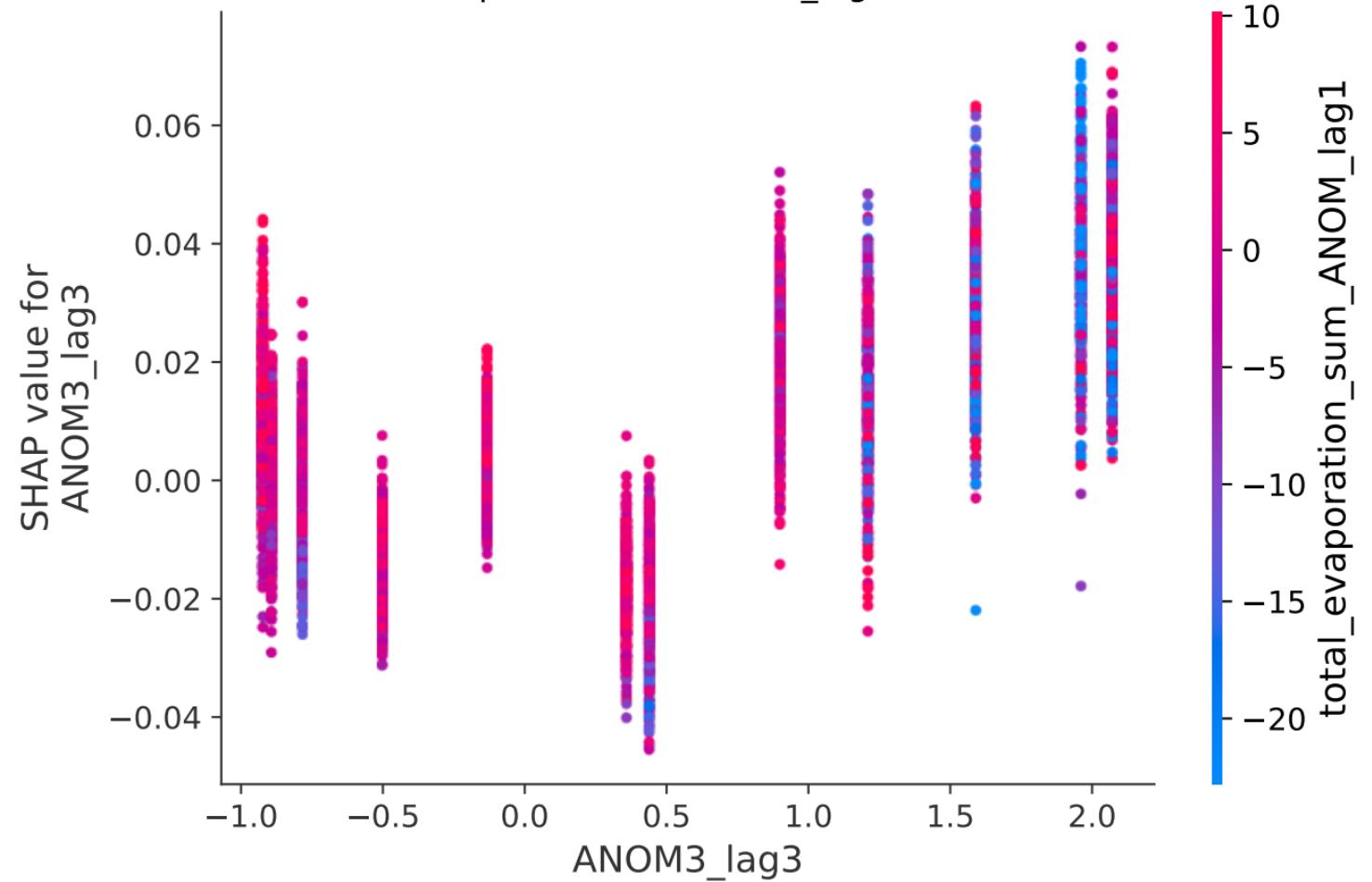
SHAP Dependence - ANOM3_lag1 - Class 2



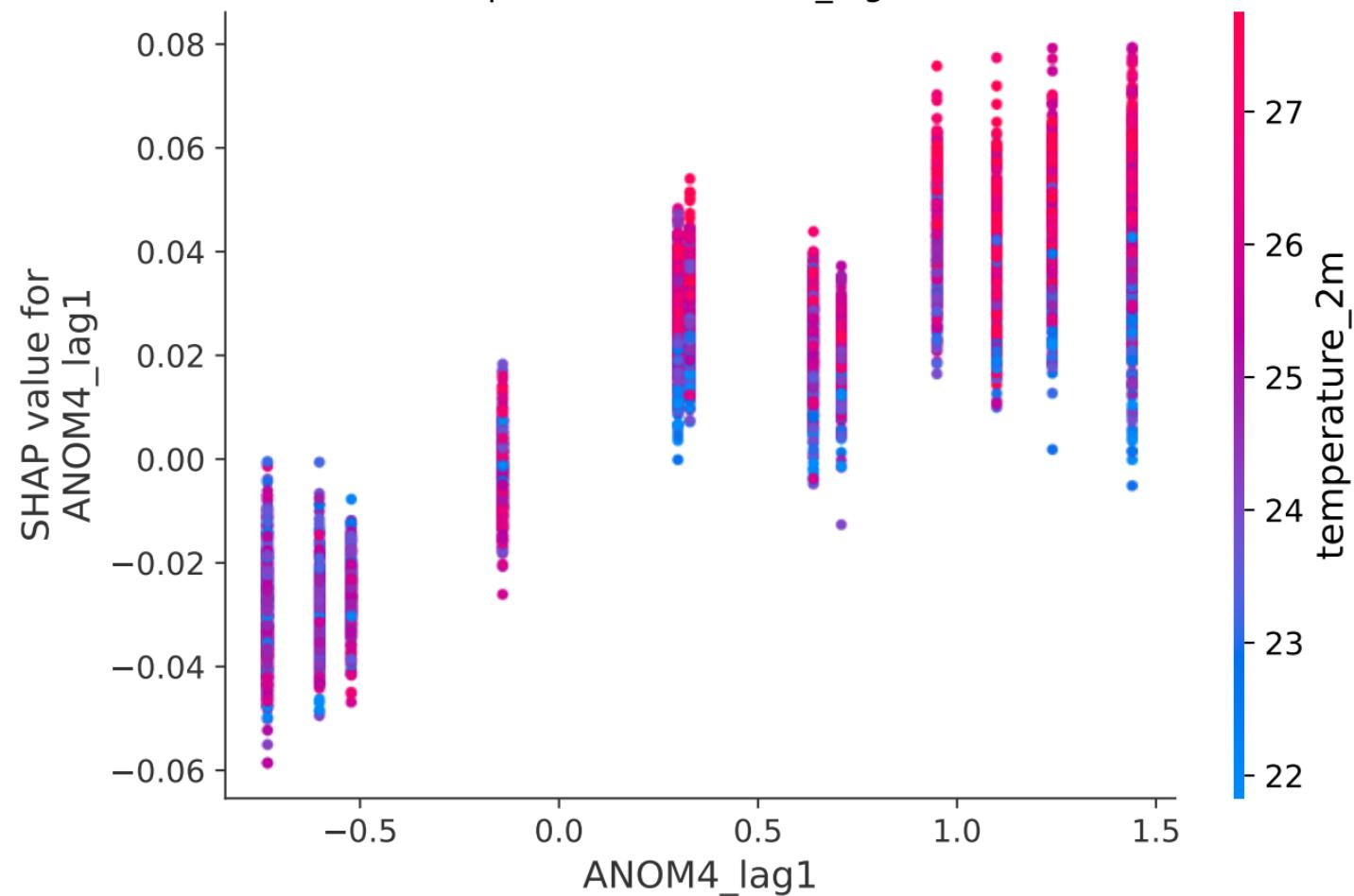
SHAP Dependence - ANOM3_lag2 - Class 2



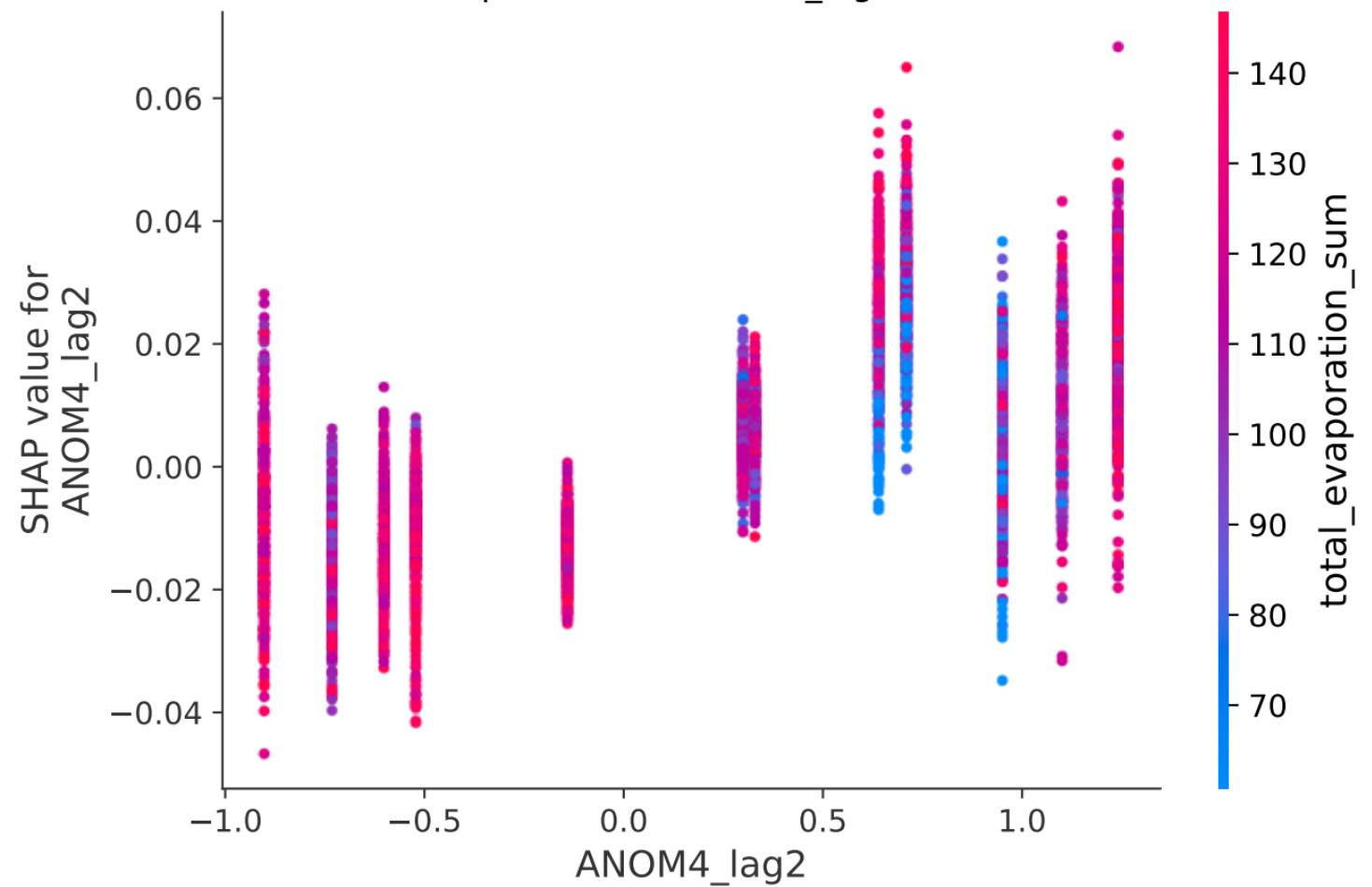
SHAP Dependence - ANOM3_lag3 - Class 2



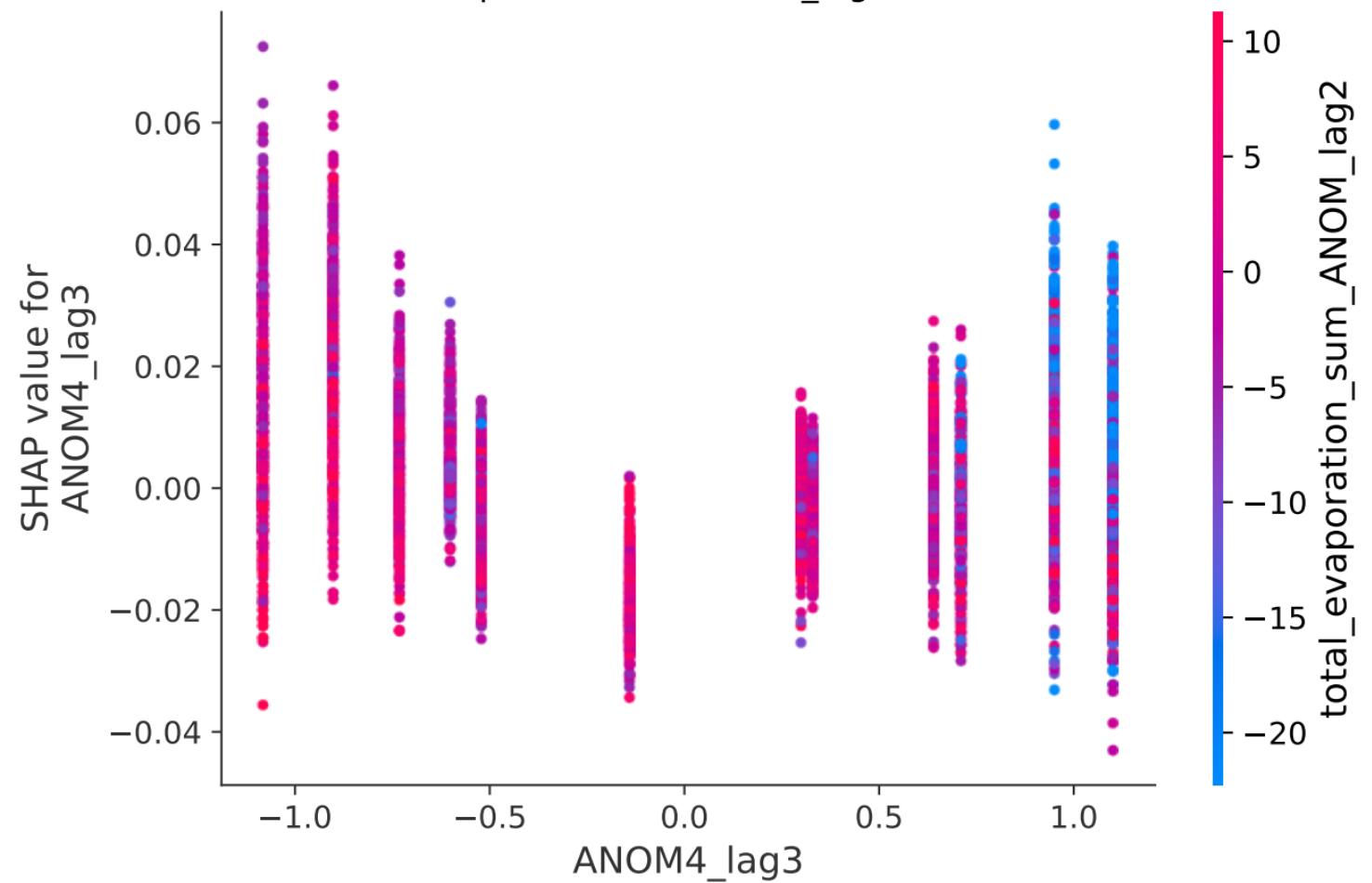
SHAP Dependence - ANOM4_lag1 - Class 2



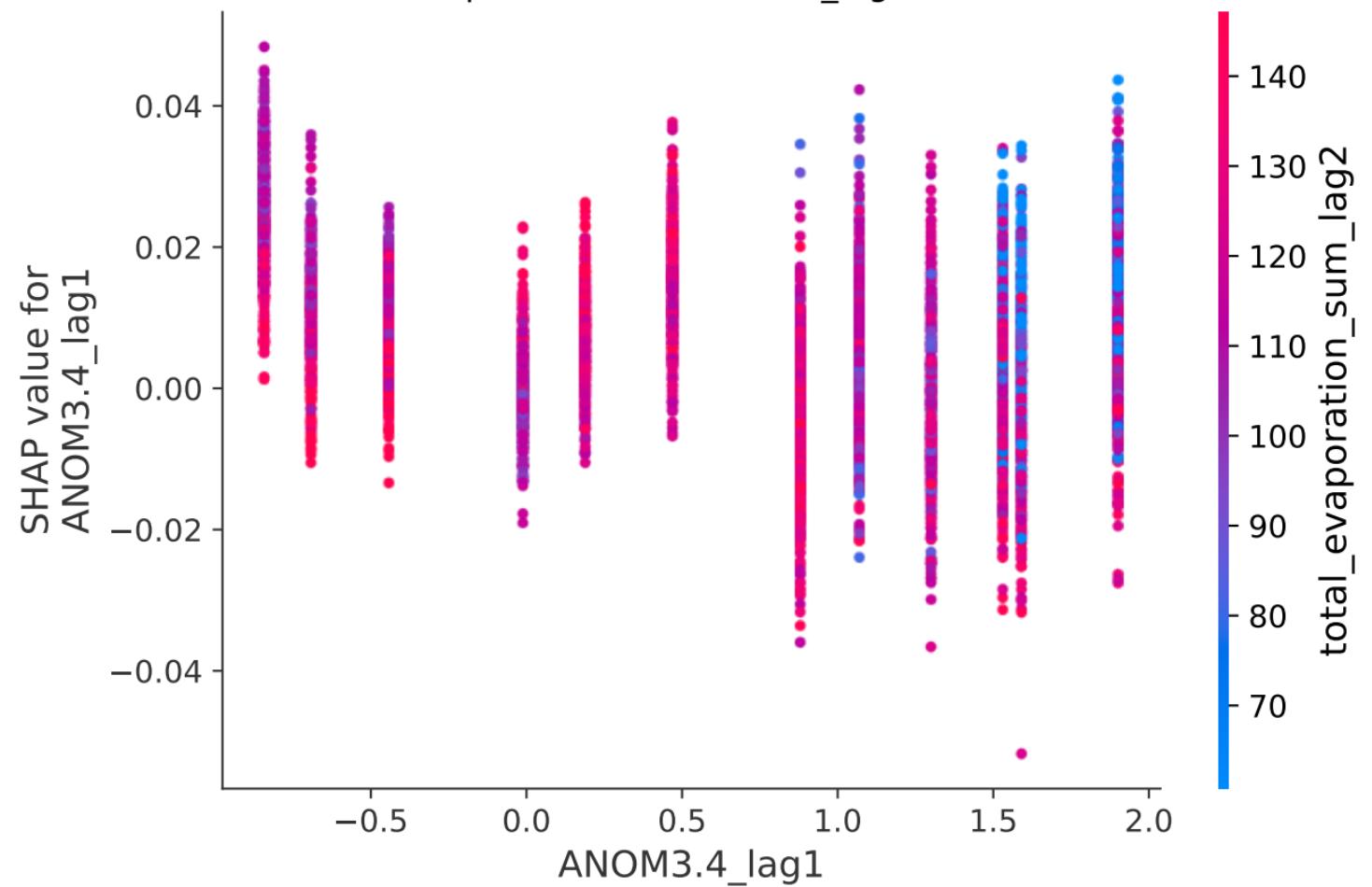
SHAP Dependence - ANOM4_lag2 - Class 2



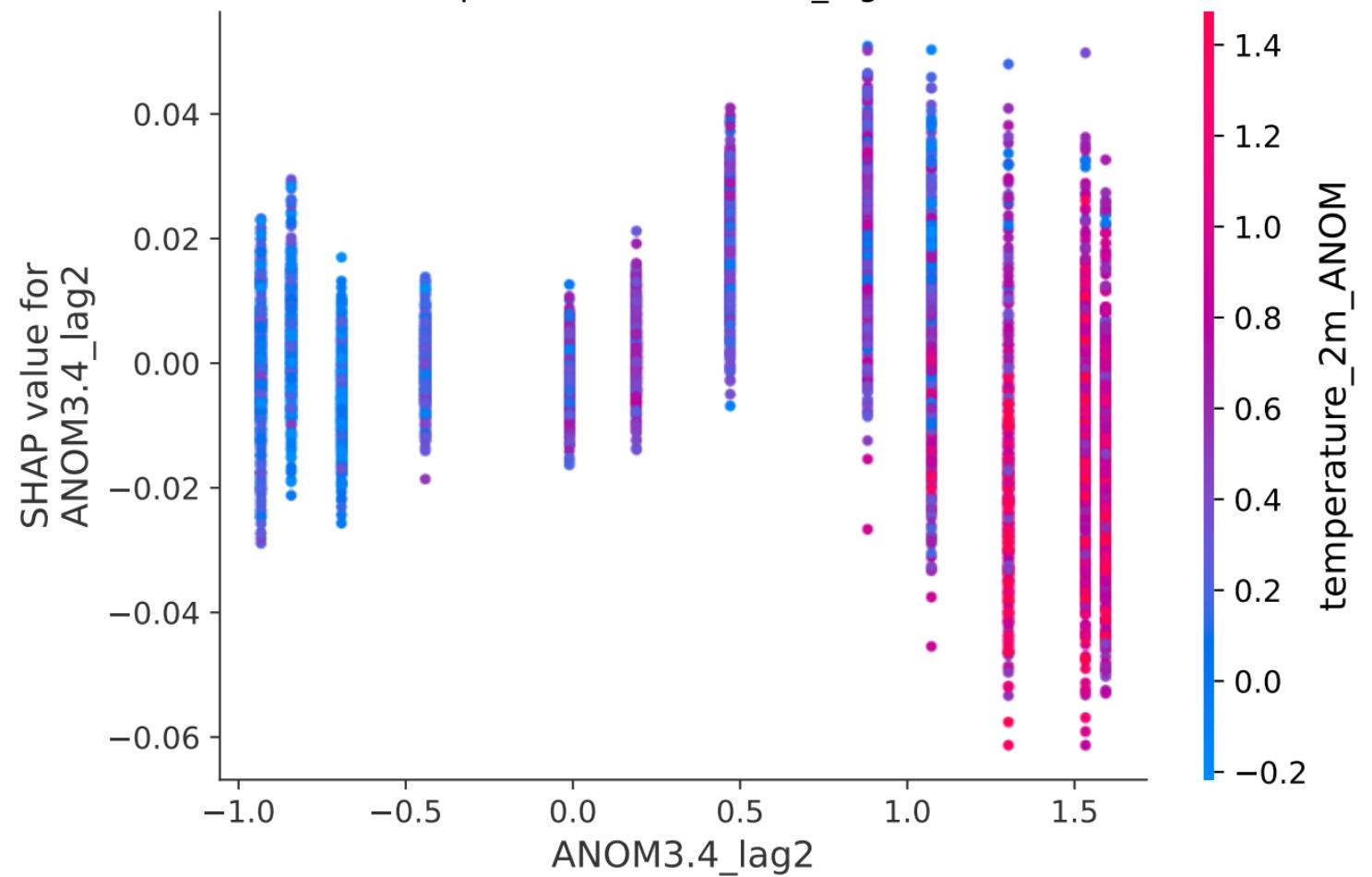
SHAP Dependence - ANOM4_lag3 - Class 2



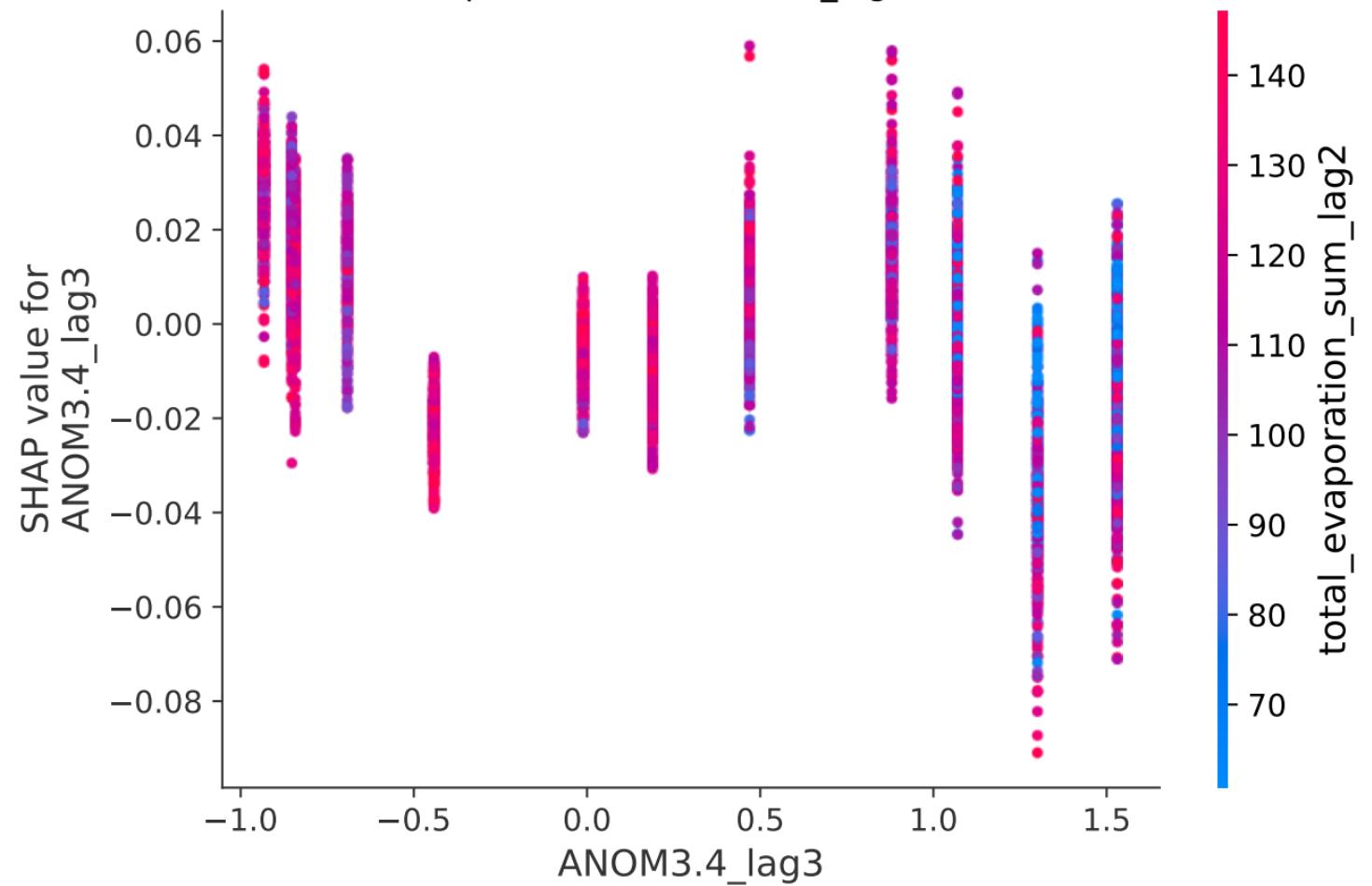
SHAP Dependence - ANOM3.4_lag1 - Class 2



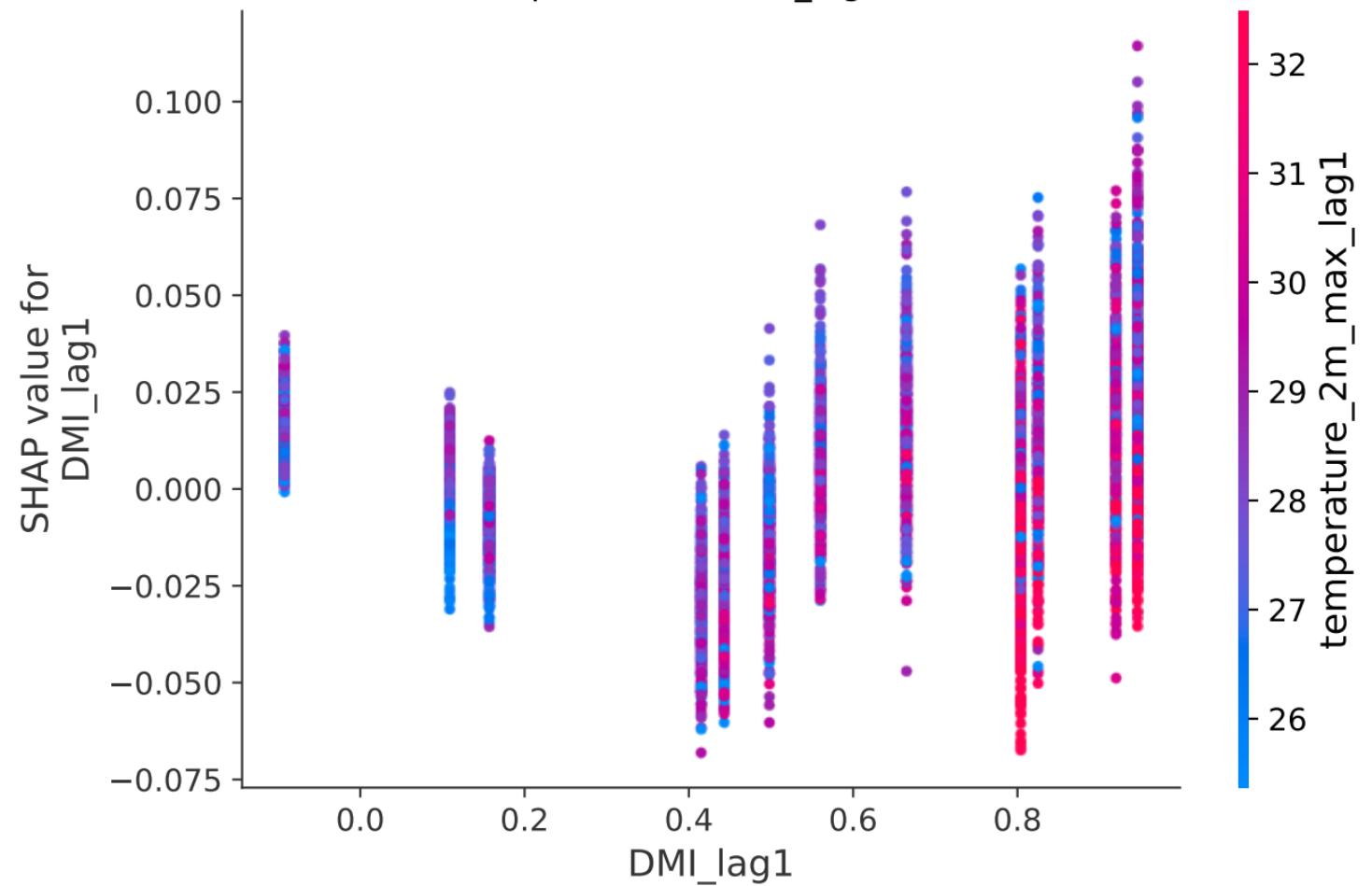
SHAP Dependence - ANOM3.4_lag2 - Class 2



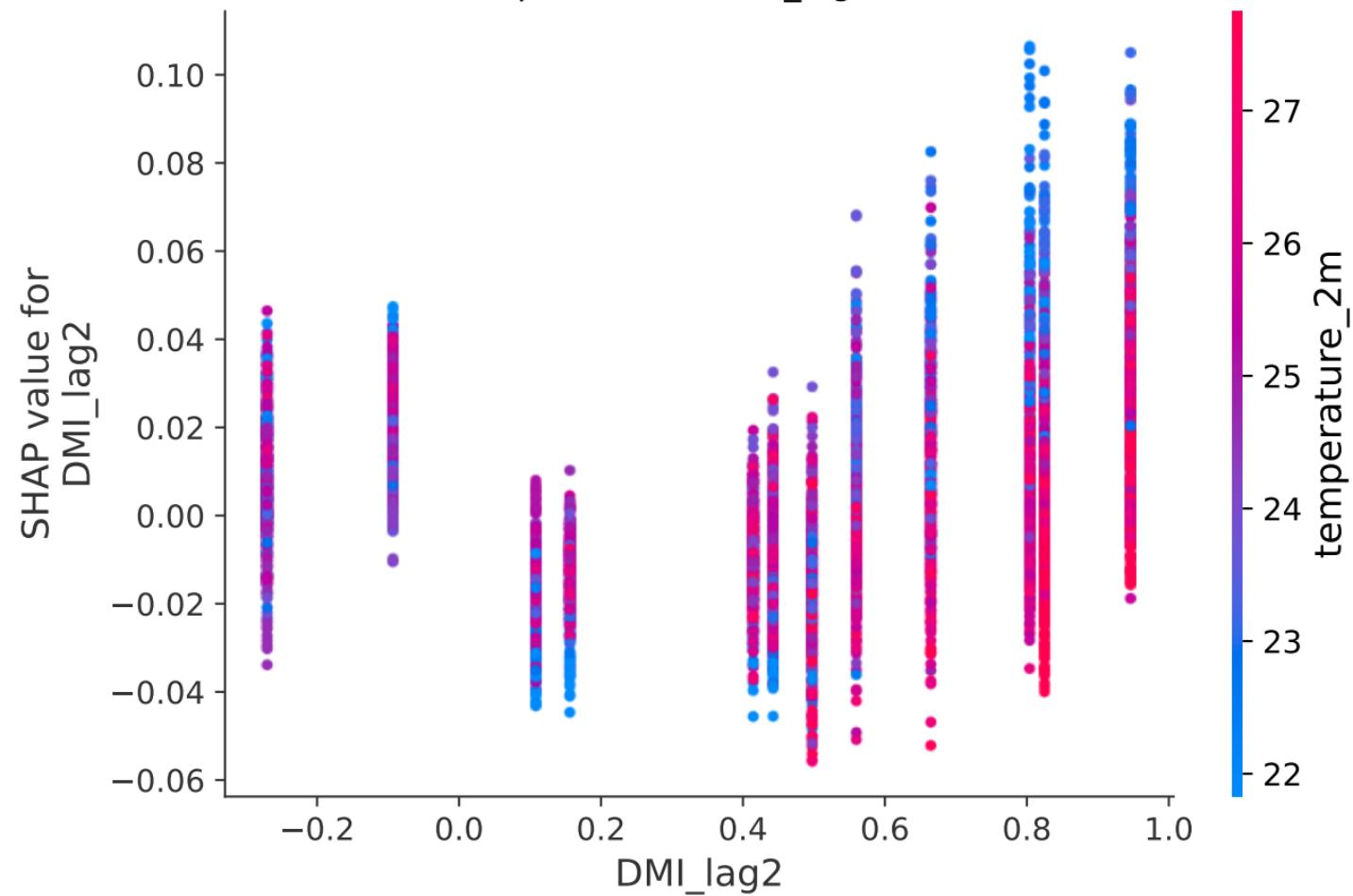
SHAP Dependence - ANOM3.4_lag3 - Class 2



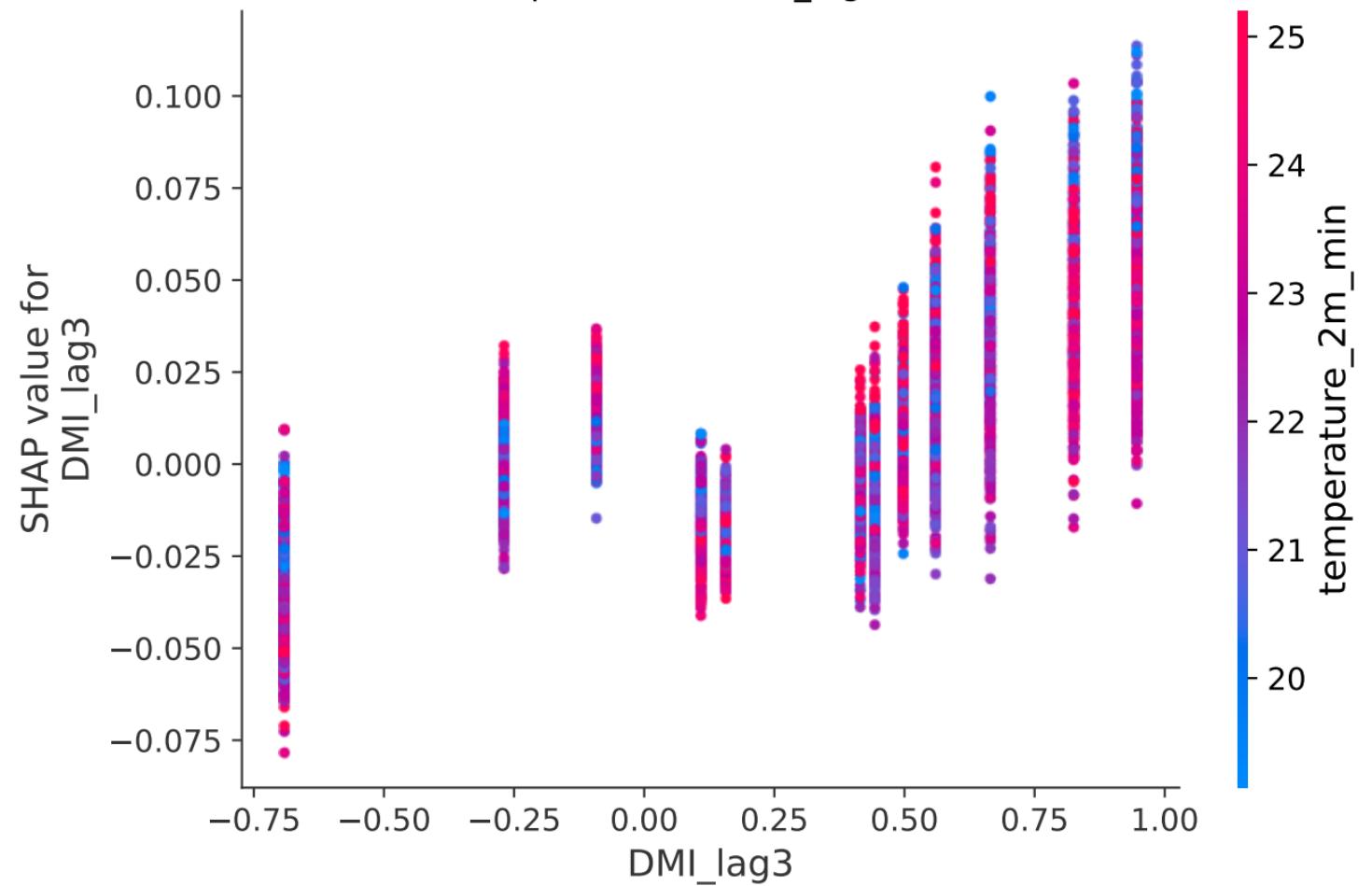
SHAP Dependence - DMI_lag1 - Class 2



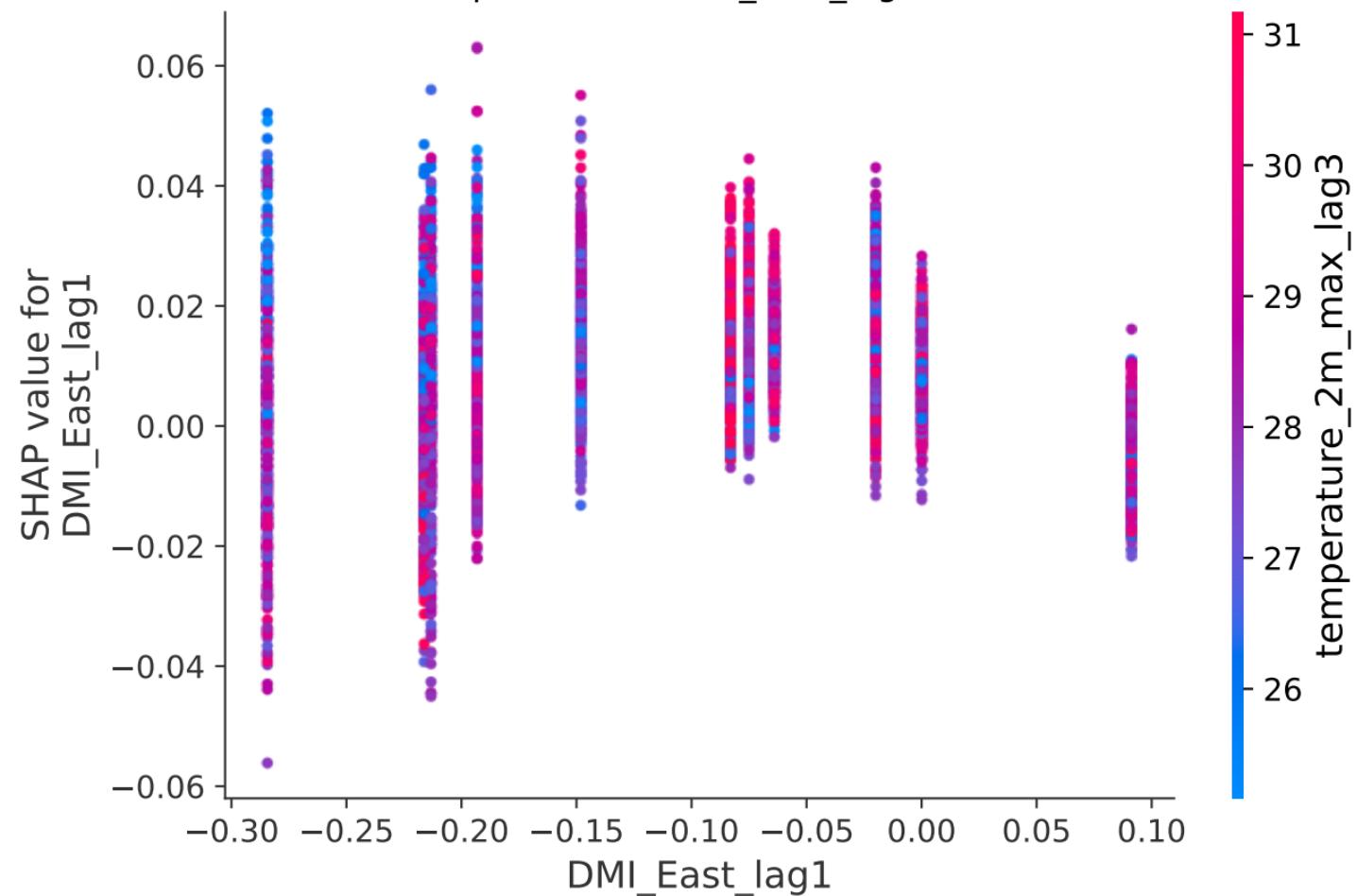
SHAP Dependence - DMI_lag2 - Class 2



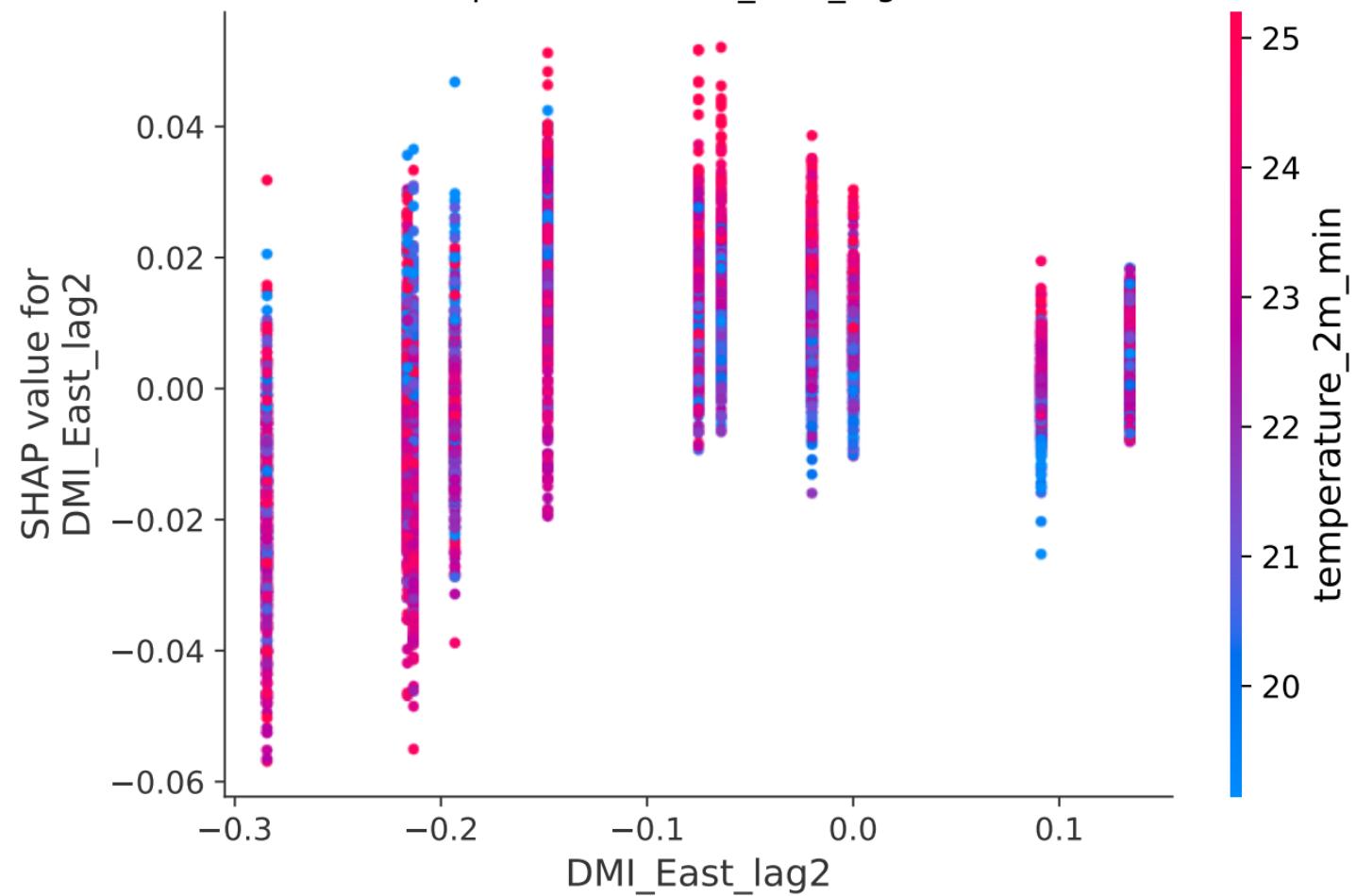
SHAP Dependence - DMI_lag3 - Class 2



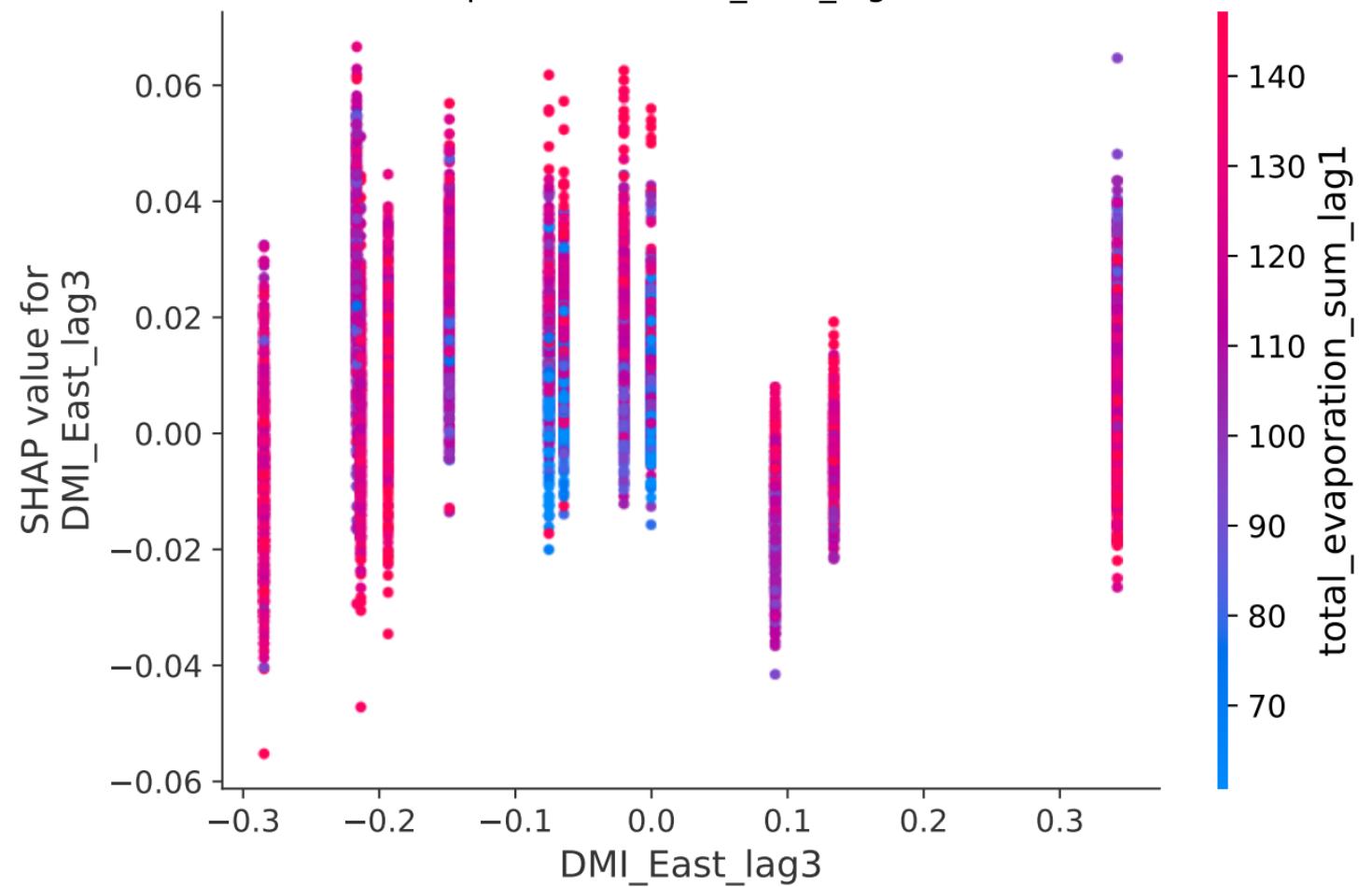
SHAP Dependence - DMI_East_lag1 - Class 2



SHAP Dependence - DMI_East_lag2 - Class 2



SHAP Dependence - DMI_East_lag3 - Class 2



SHAP Beeswarm - Class 3

High

Feature value

Low

Class_50

Class_40

Class_30

Class_80

Class_90

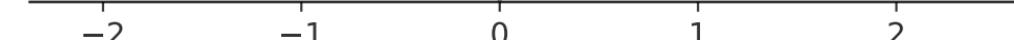
Class_20

ANOM4

Class_60

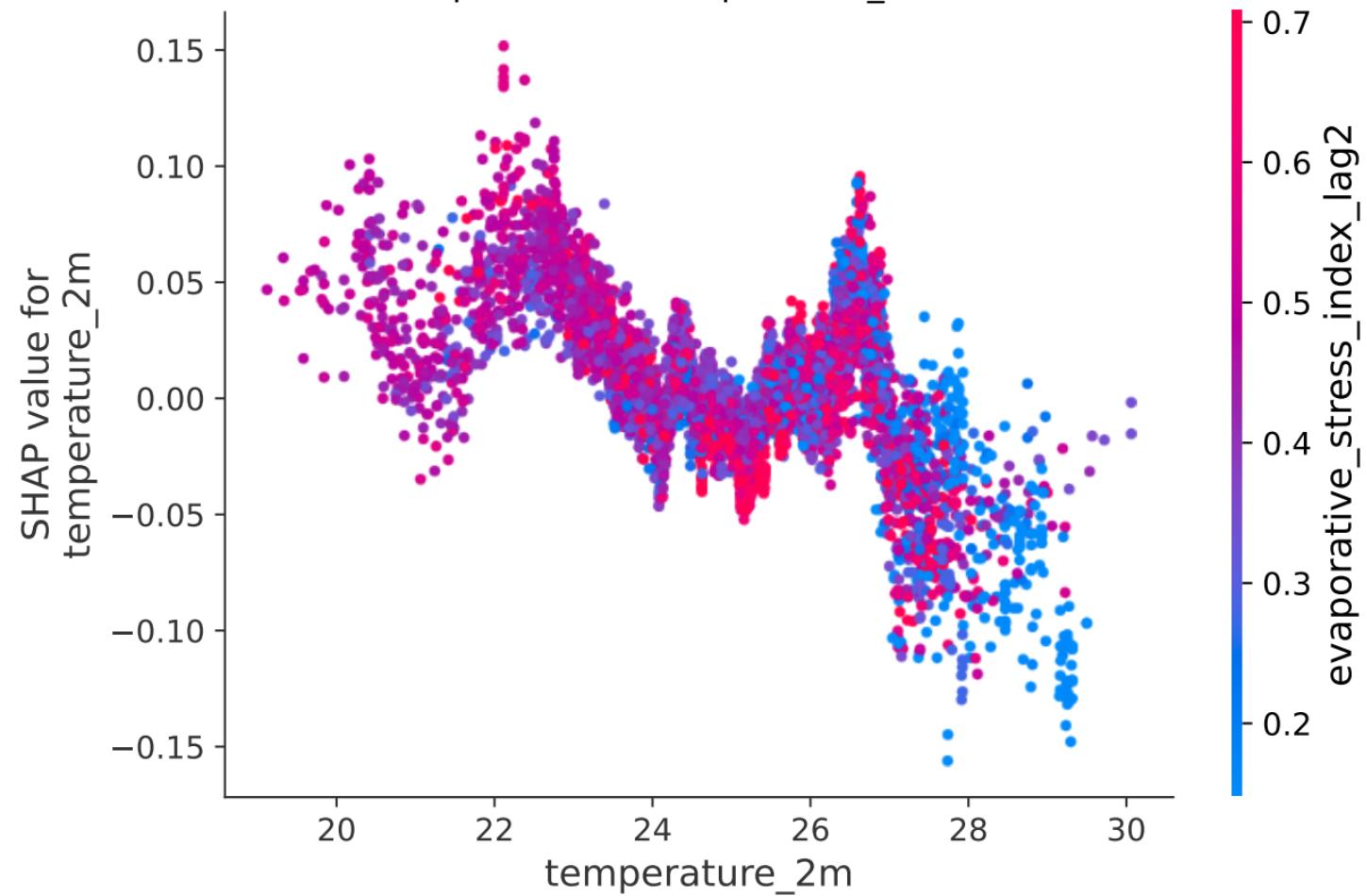
temperature_2m_max_lag3

Sum of 81 other features

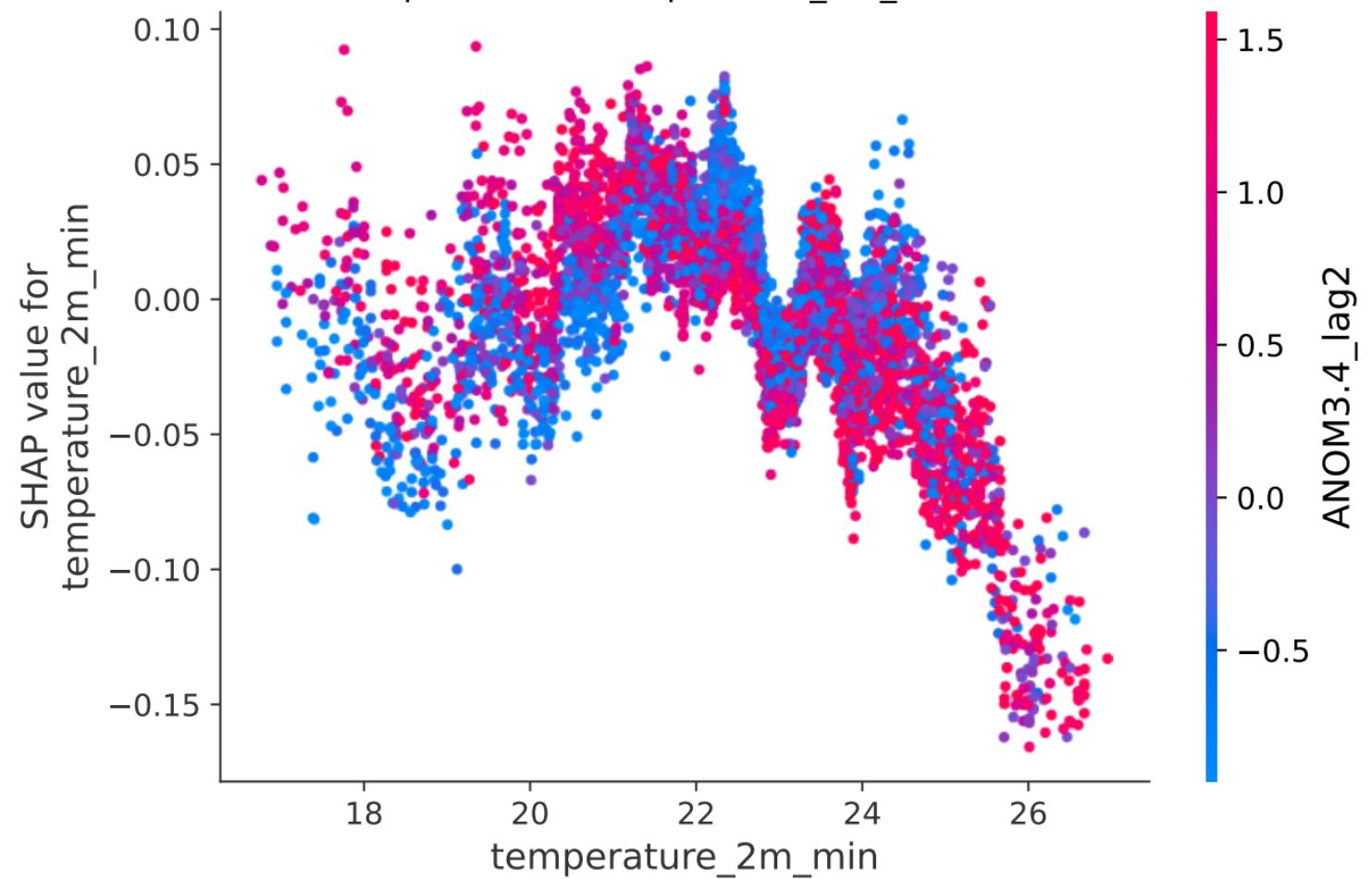


SHAP value (impact on model output)

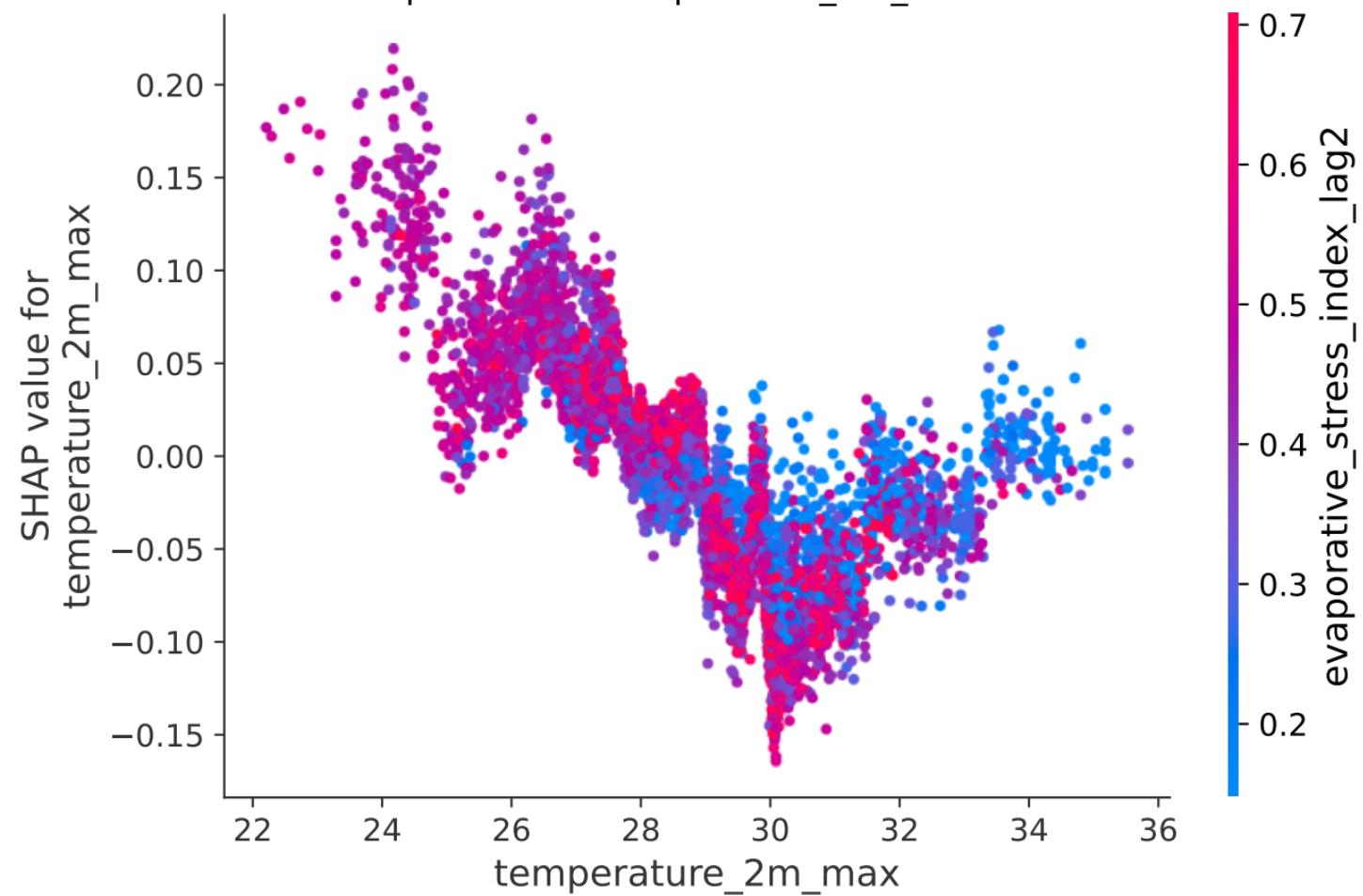
SHAP Dependence - temperature_2m - Class 3



SHAP Dependence - temperature_2m_min - Class 3

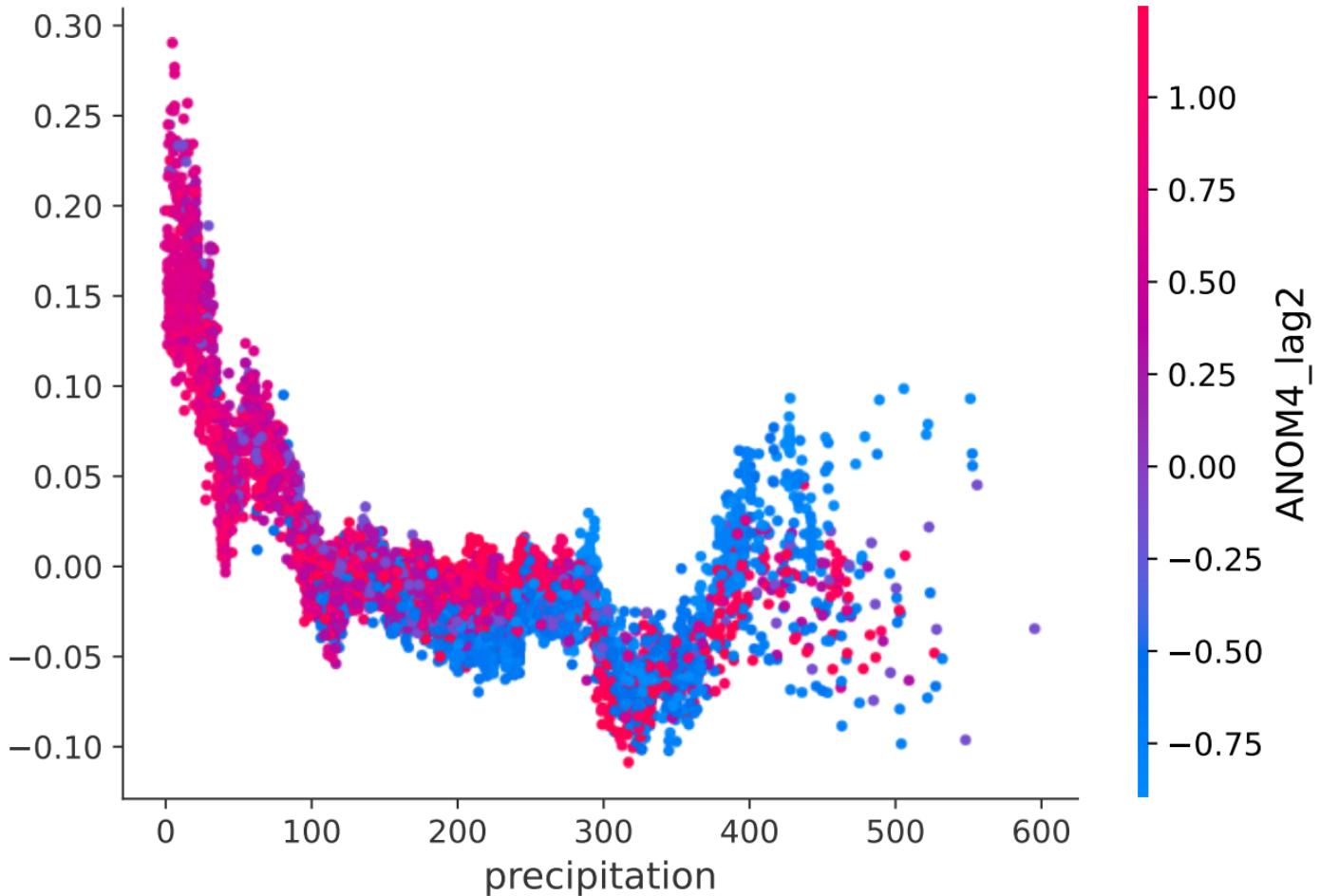


SHAP Dependence - temperature_2m_max - Class 3

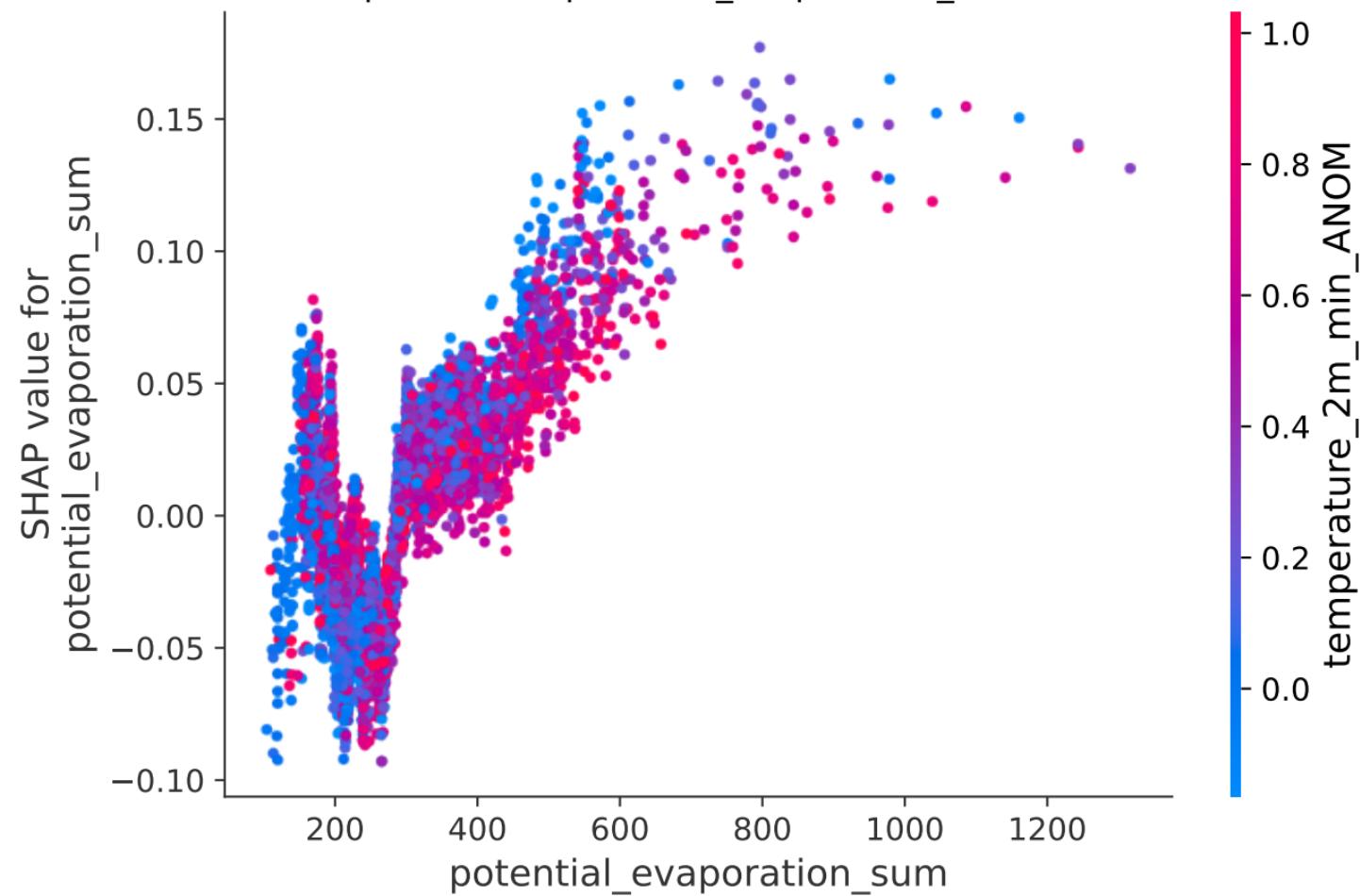


SHAP Dependence - precipitation - Class 3

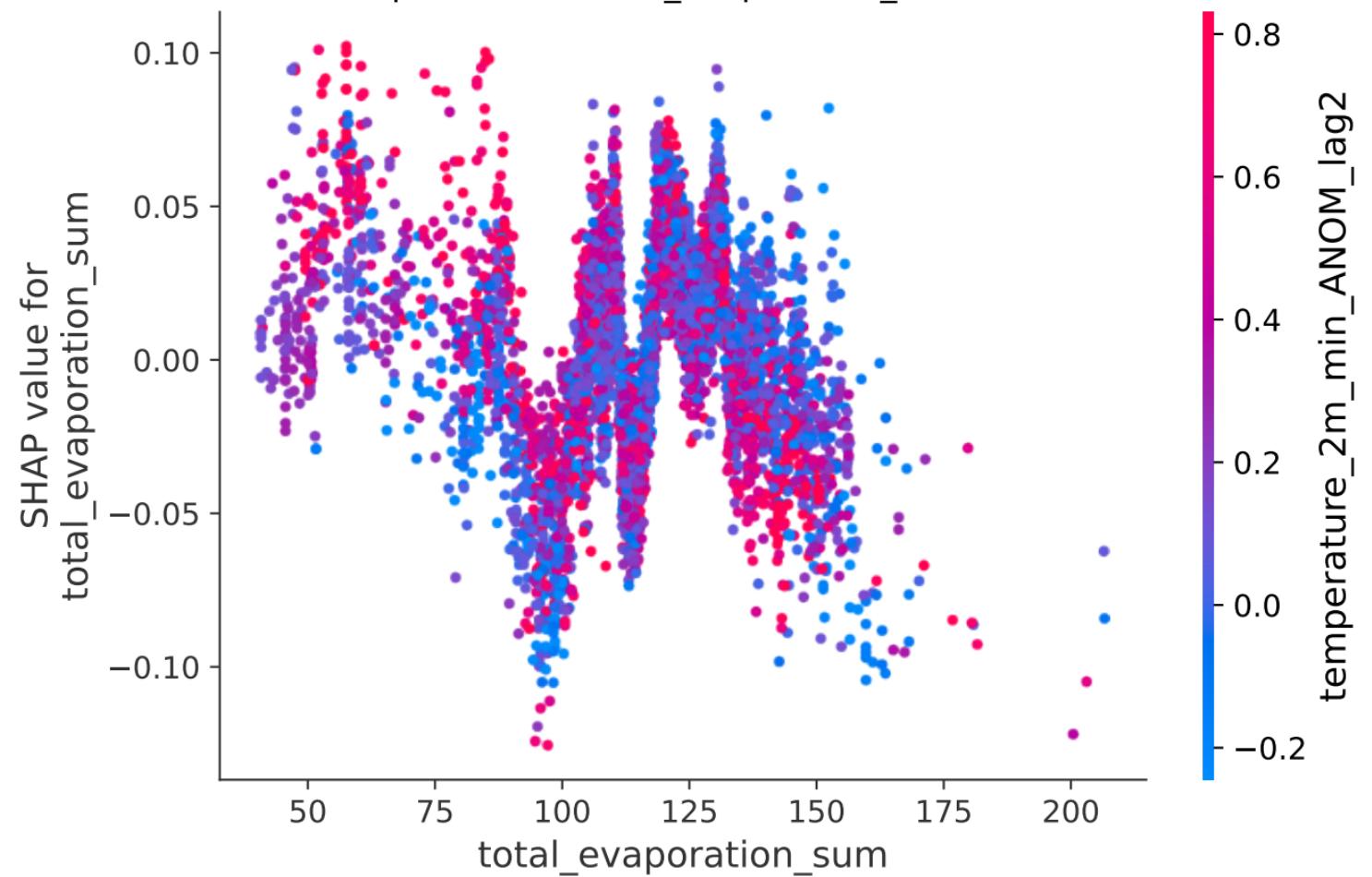
SHAP value for
precipitation



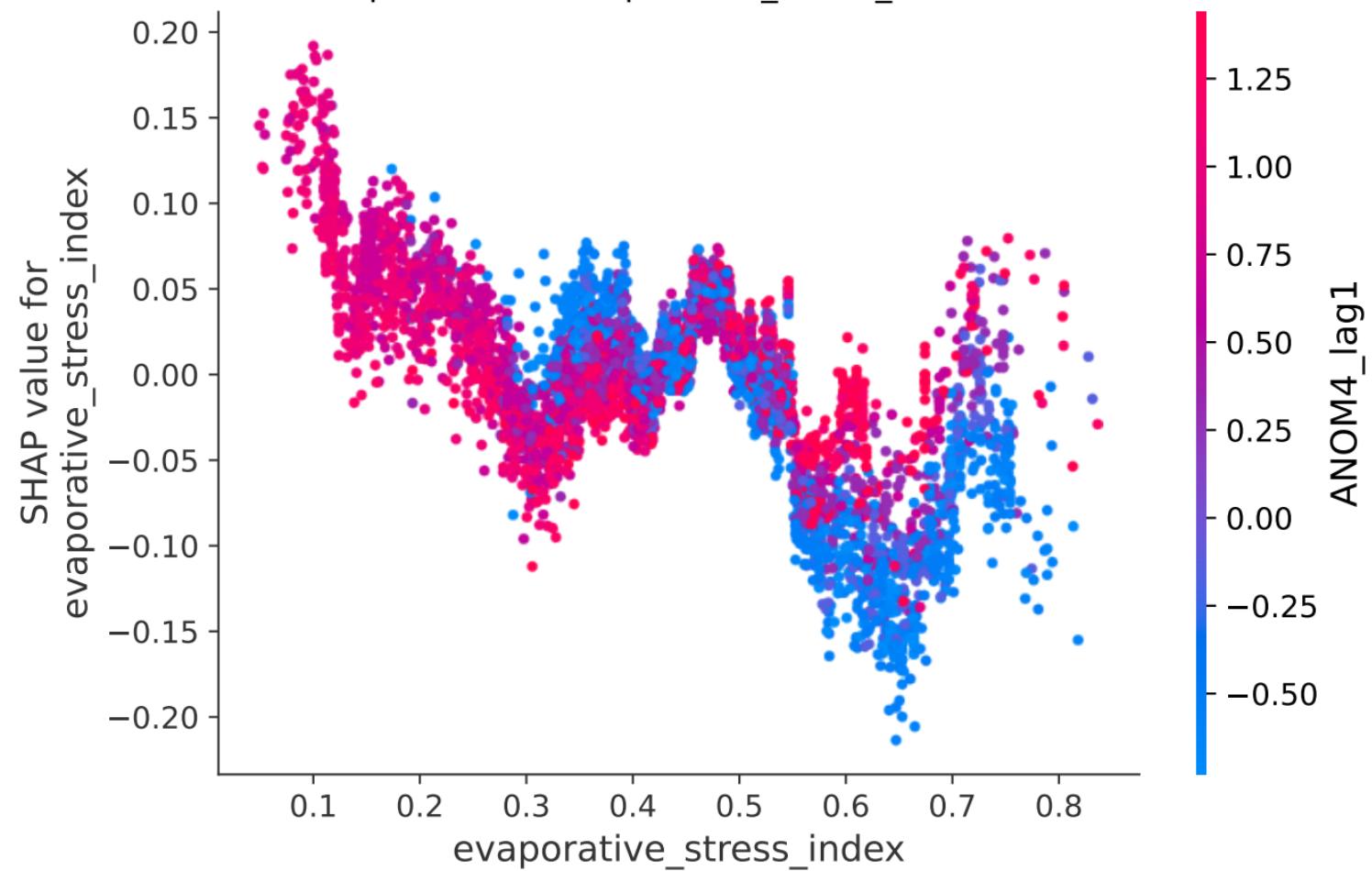
SHAP Dependence - potential_evaporation_sum - Class 3



SHAP Dependence - total_evaporation_sum - Class 3

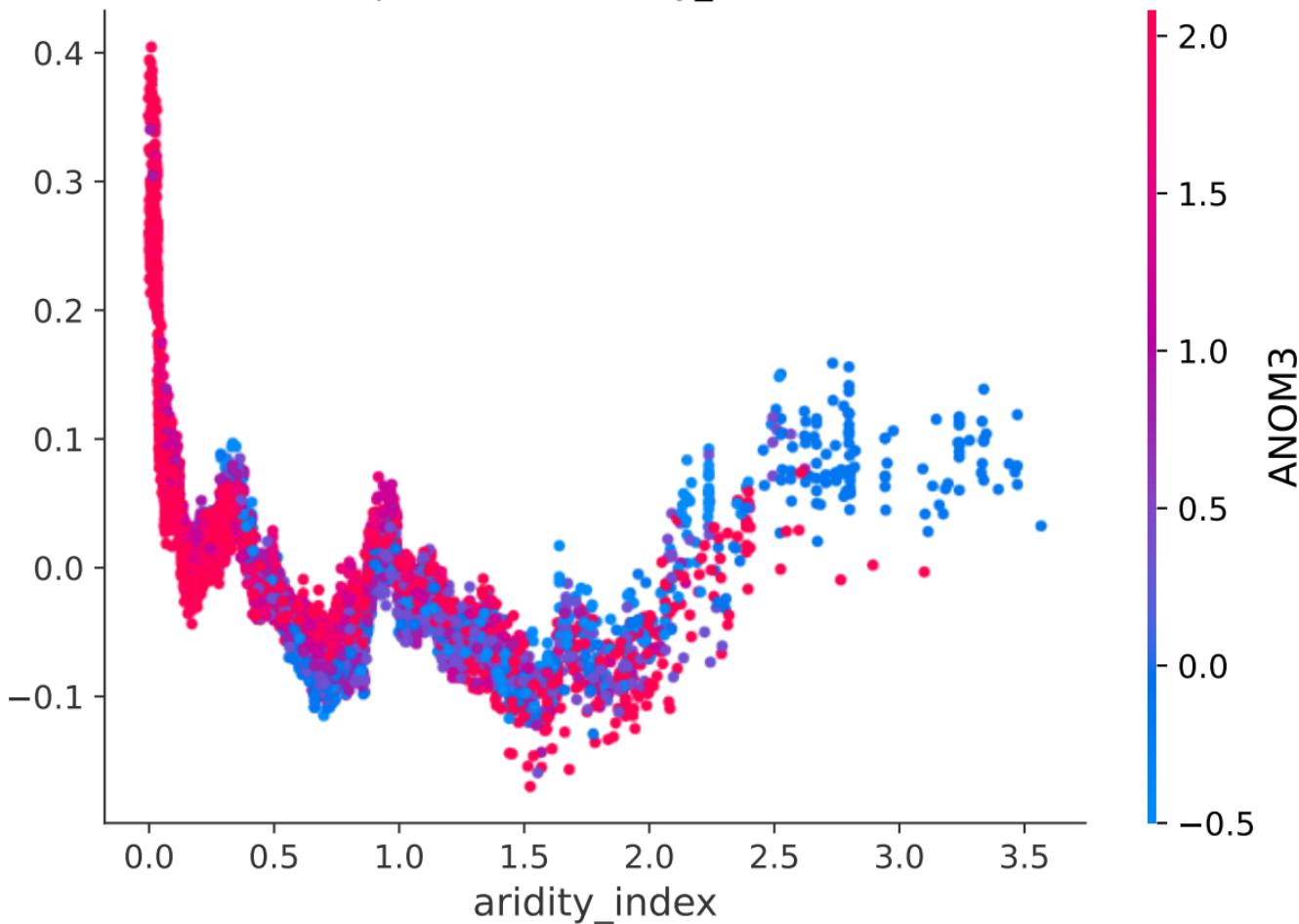


SHAP Dependence - evaporative_stress_index - Class 3

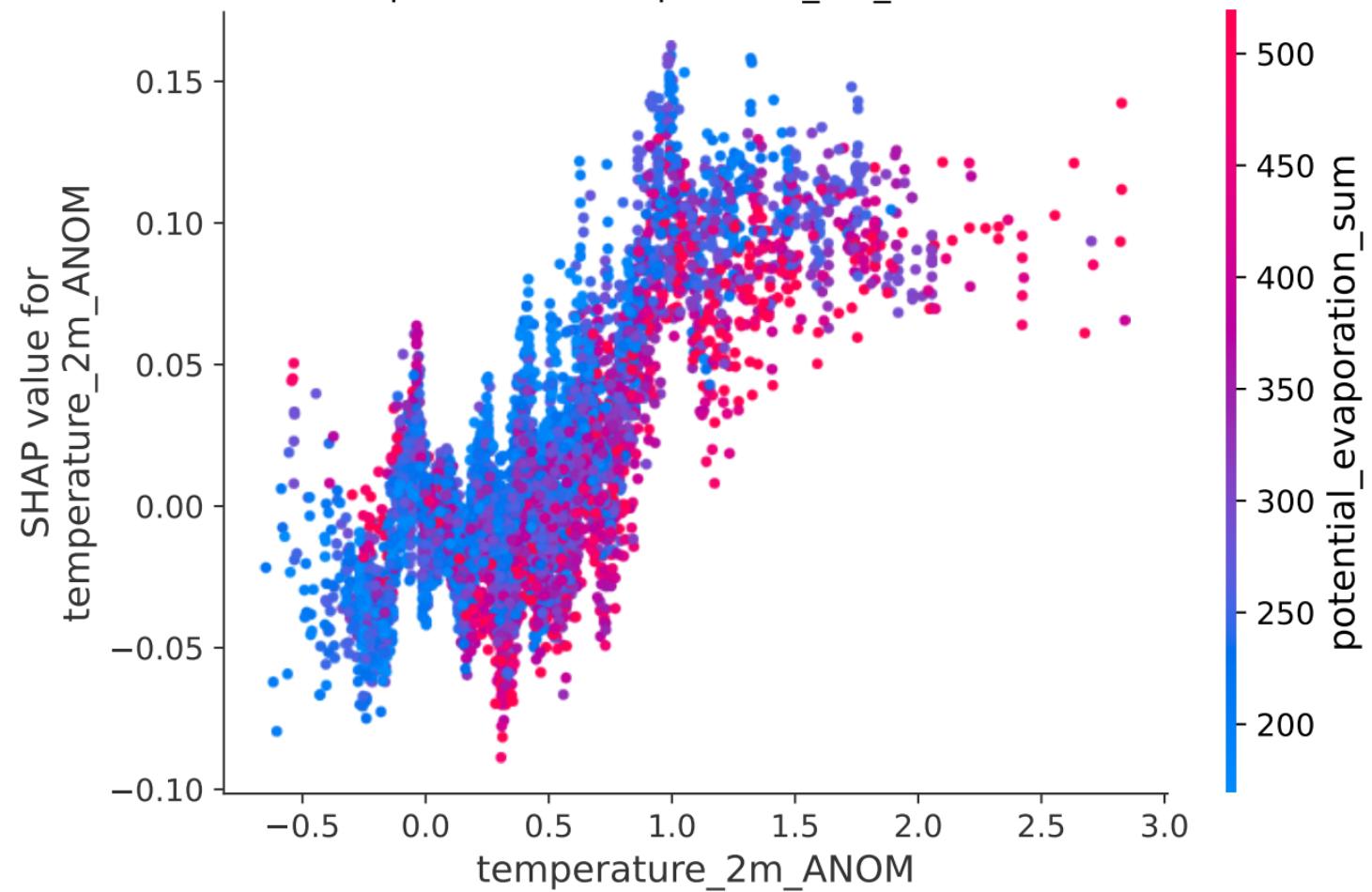


SHAP Dependence - aridity_index - Class 3

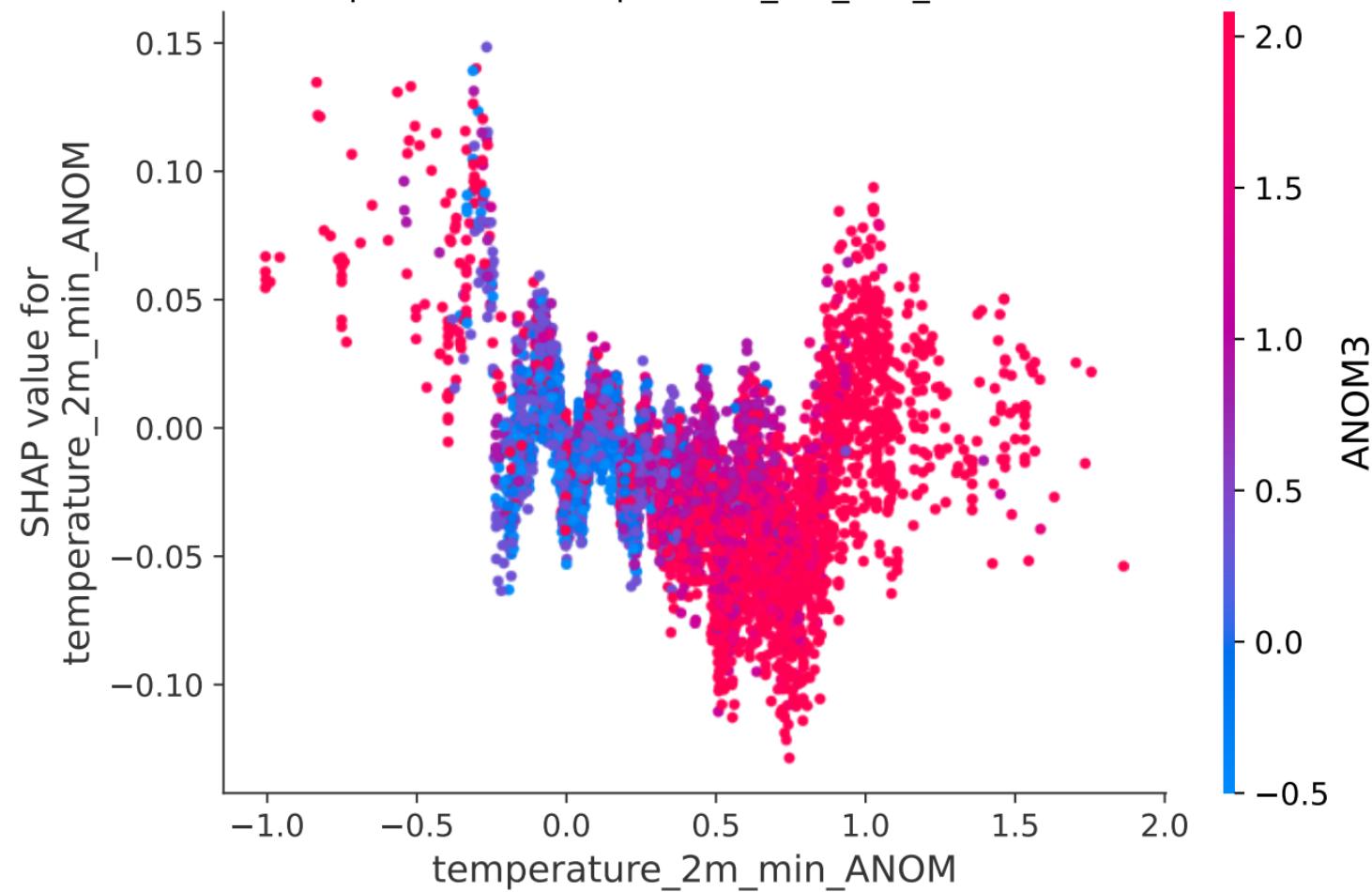
SHAP value for
aridity_index



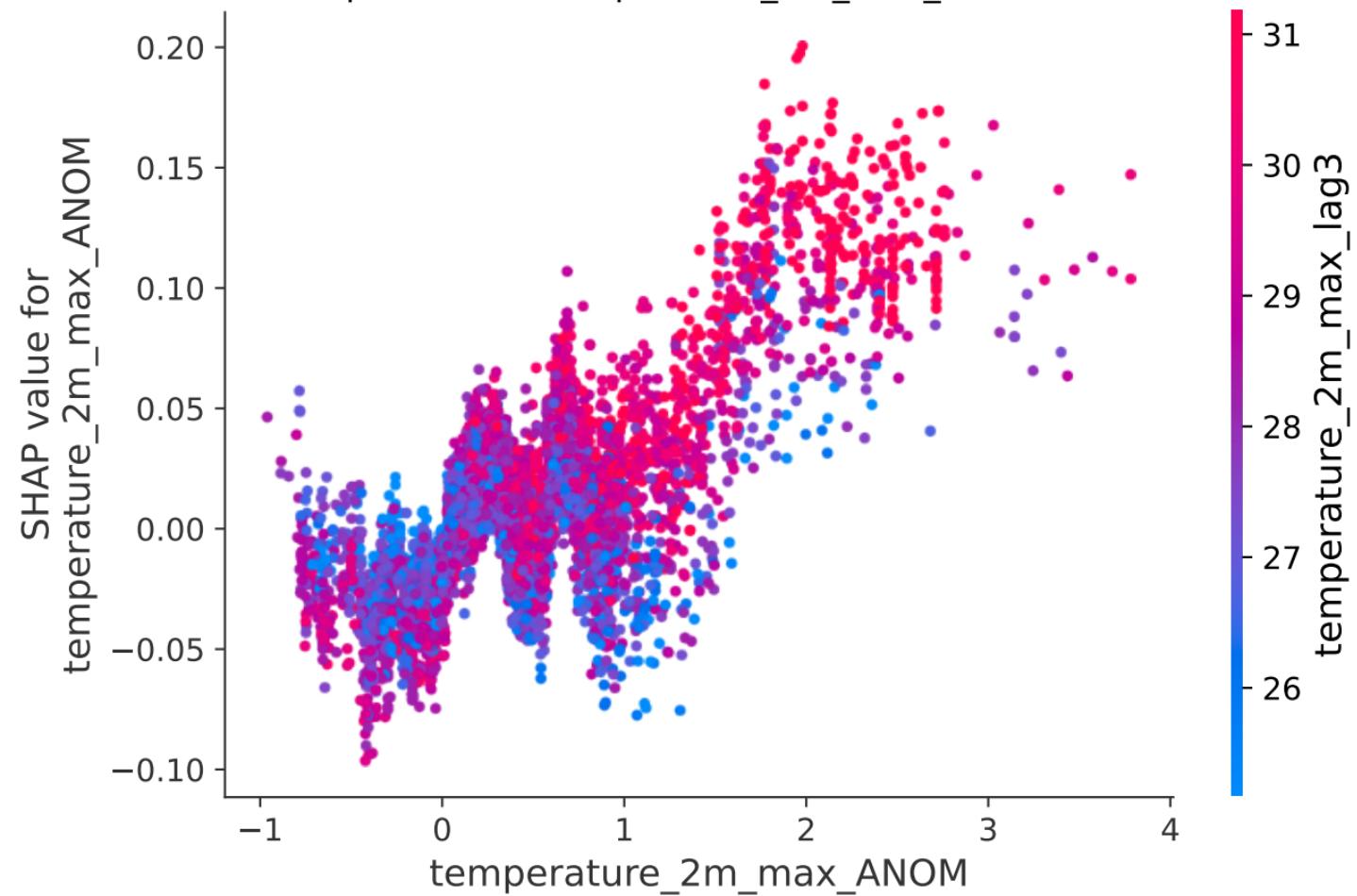
SHAP Dependence - temperature_2m_ANOM - Class 3



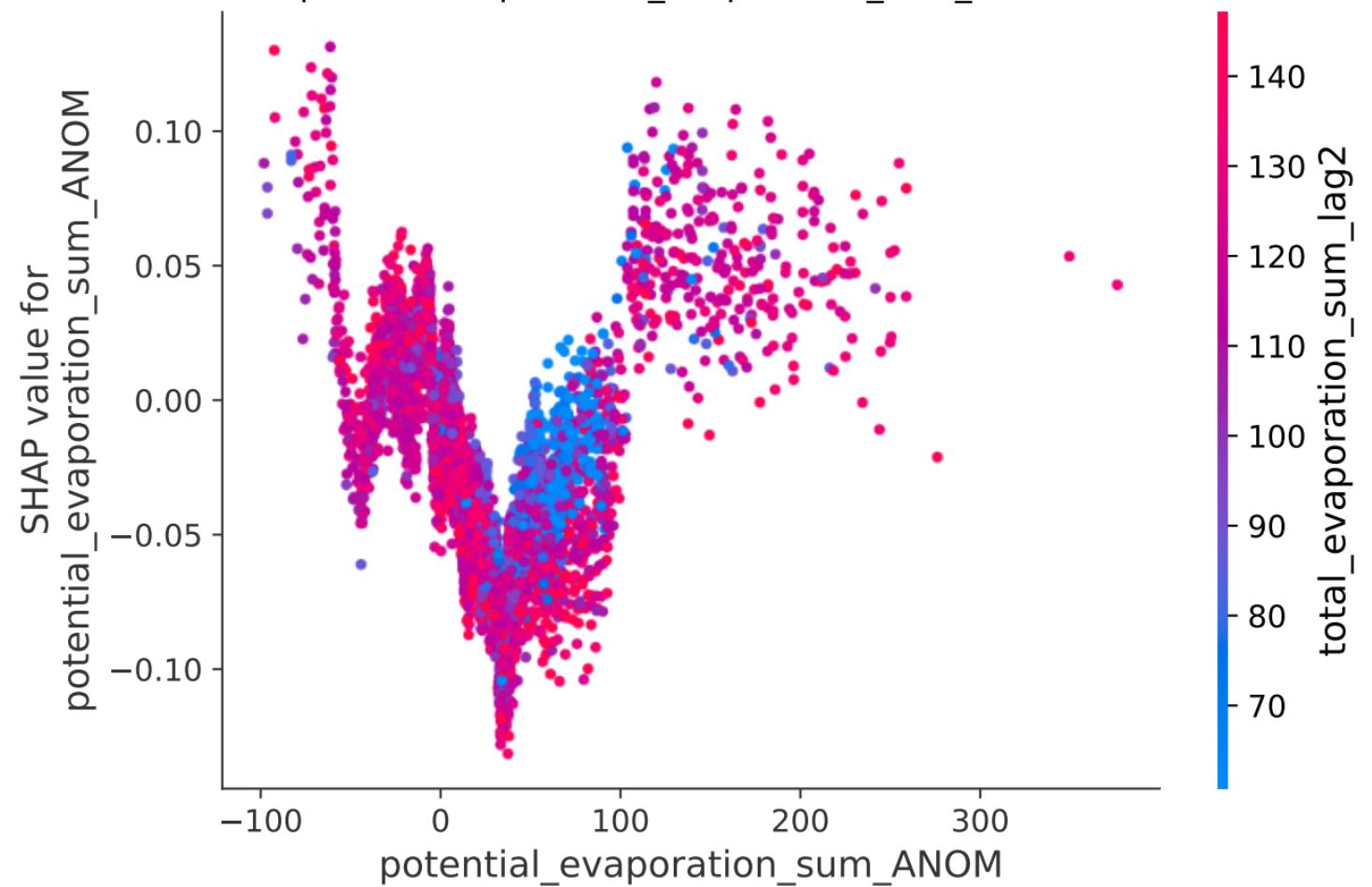
SHAP Dependence - temperature_2m_min_ANOM - Class 3



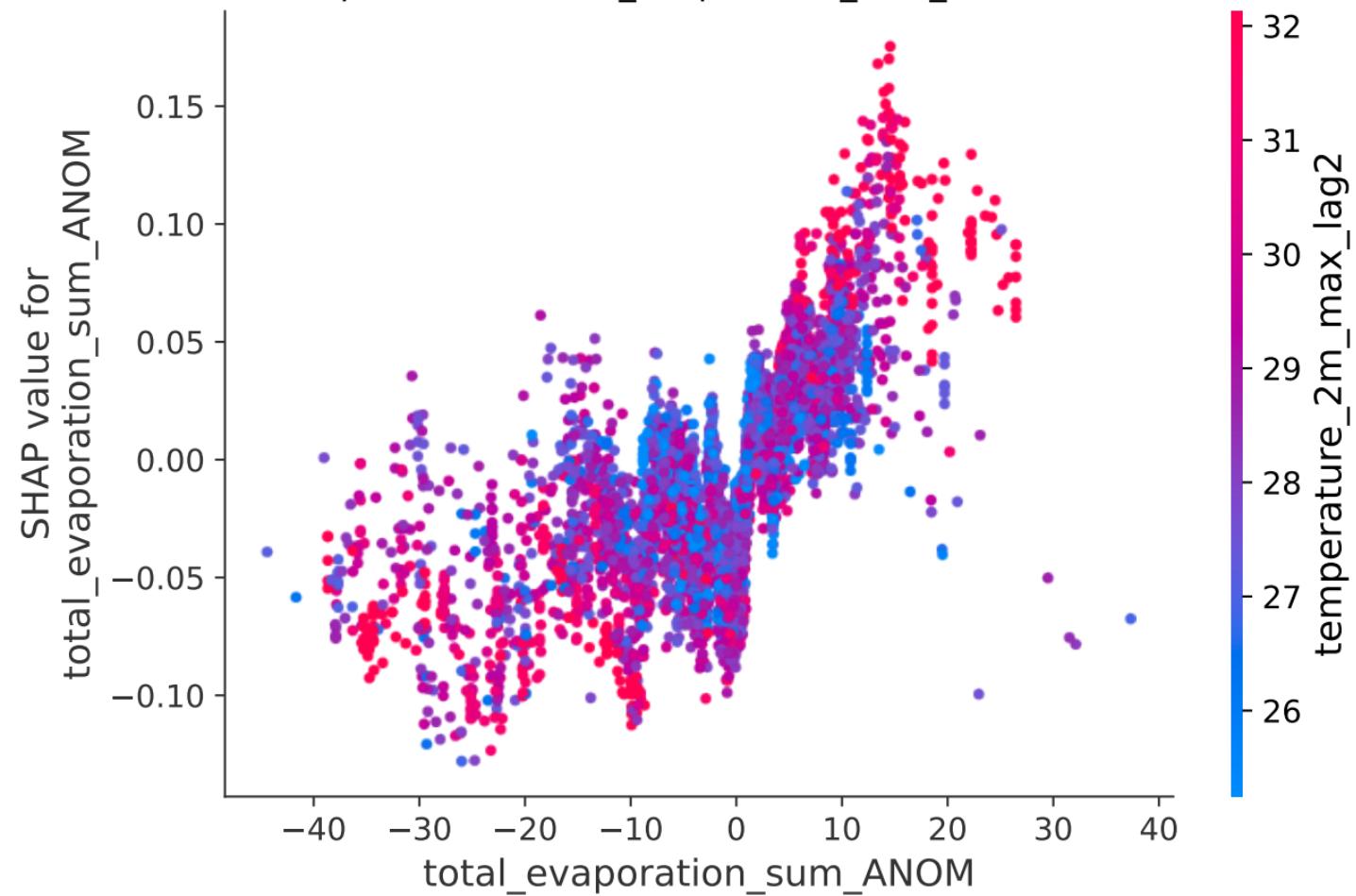
SHAP Dependence - temperature_2m_max_ANOM - Class 3



SHAP Dependence - potential_evaporation_sum_ANOM - Class 3

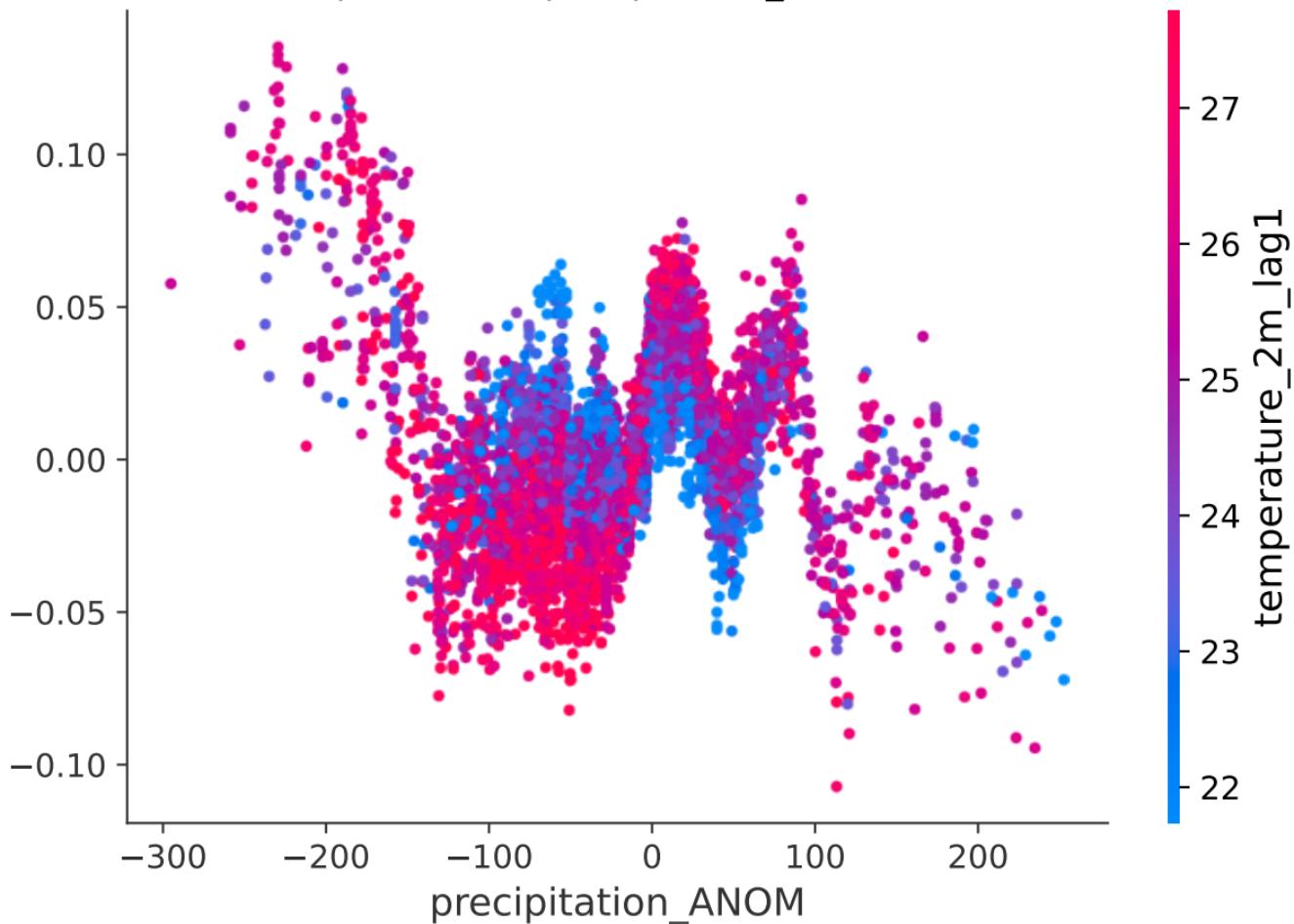


SHAP Dependence - total_evaporation_sum_ANOM - Class 3



SHAP Dependence - precipitation_ANOM - Class 3

SHAP value for
precipitation_ANOM



SHAP Dependence - ANOM1+2 - Class 3

SHAP value for
ANOM1+2

0.10

0.05

0.00

-0.05

0.35

0.30

0.25

0.20

0.15

0.10

0.05

Class 40

0.0

0.5

1.0

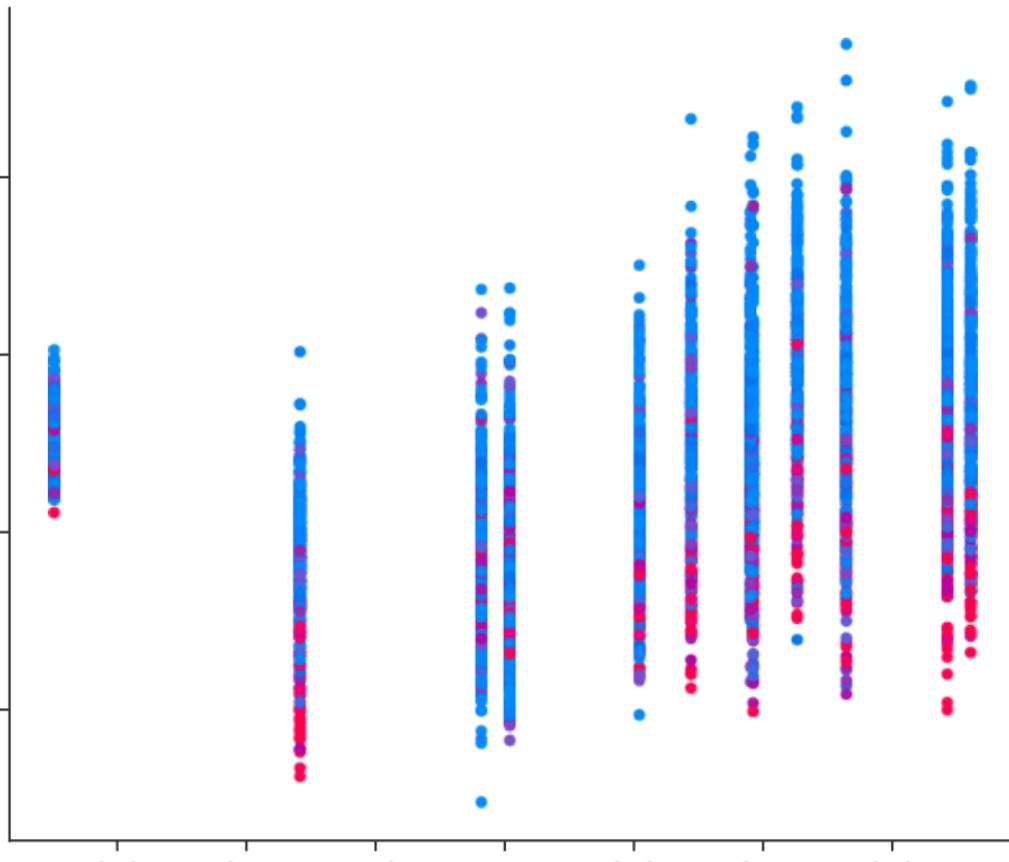
1.5

2.0

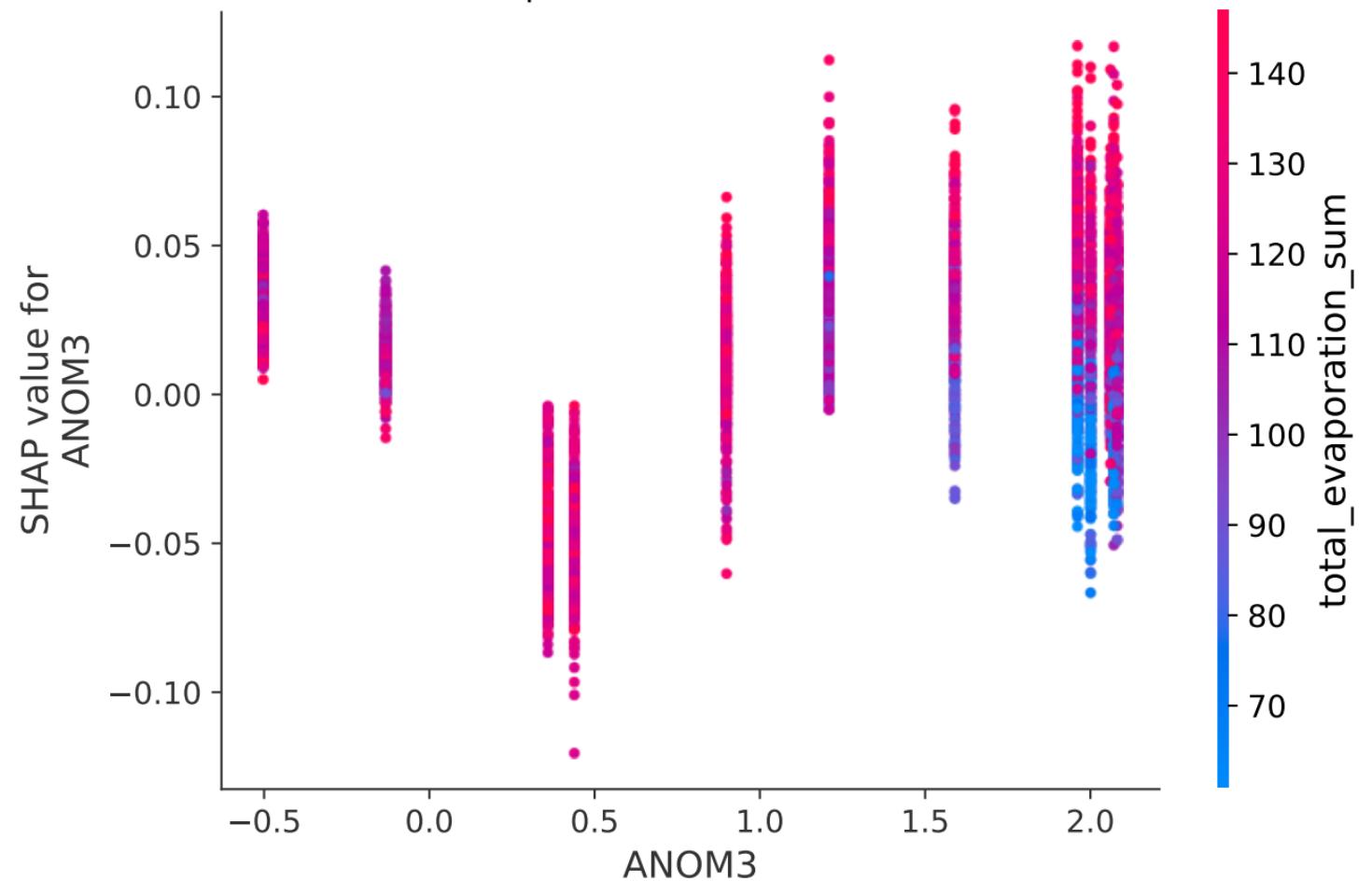
2.5

3.0

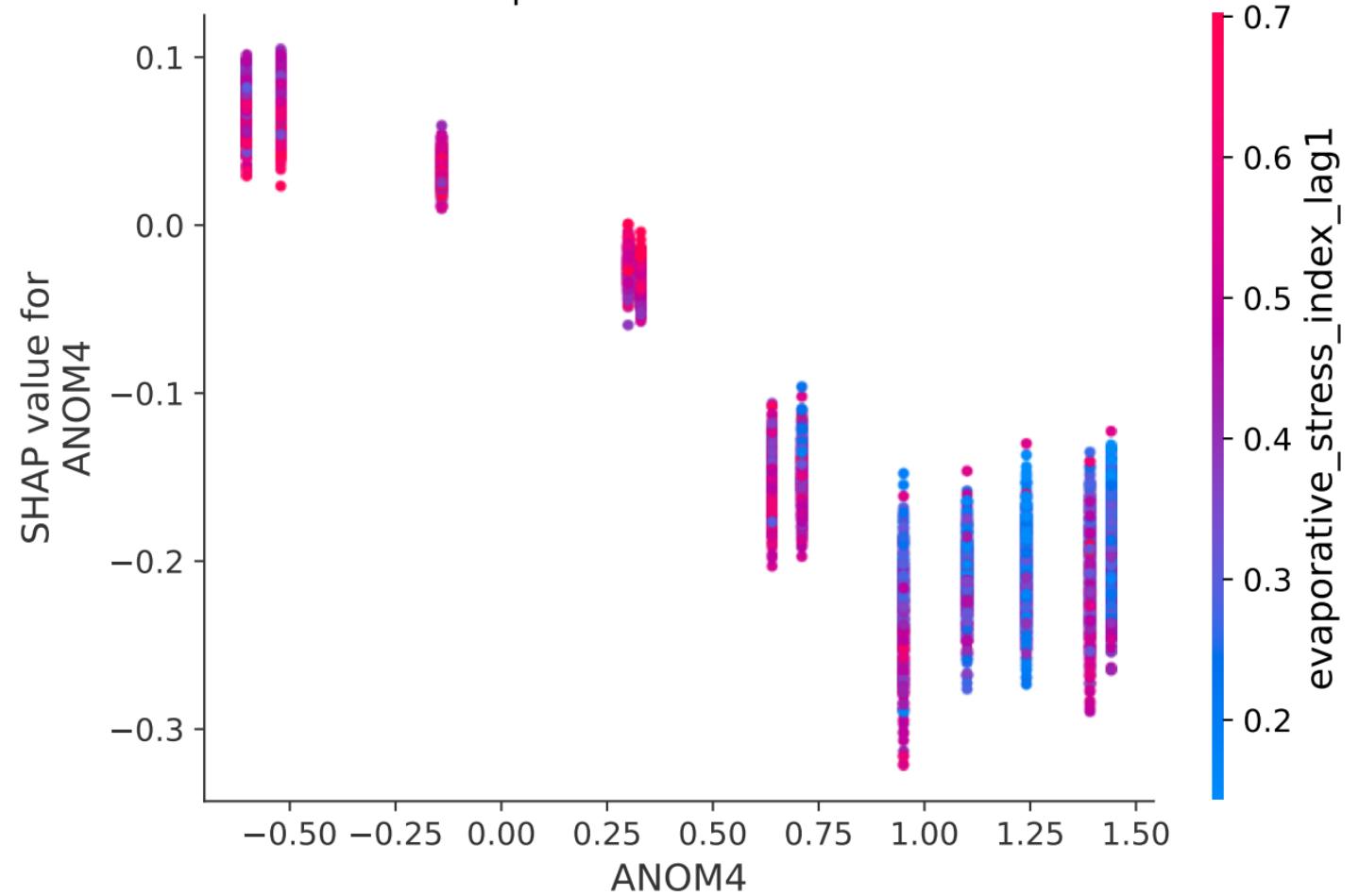
ANOM1+2



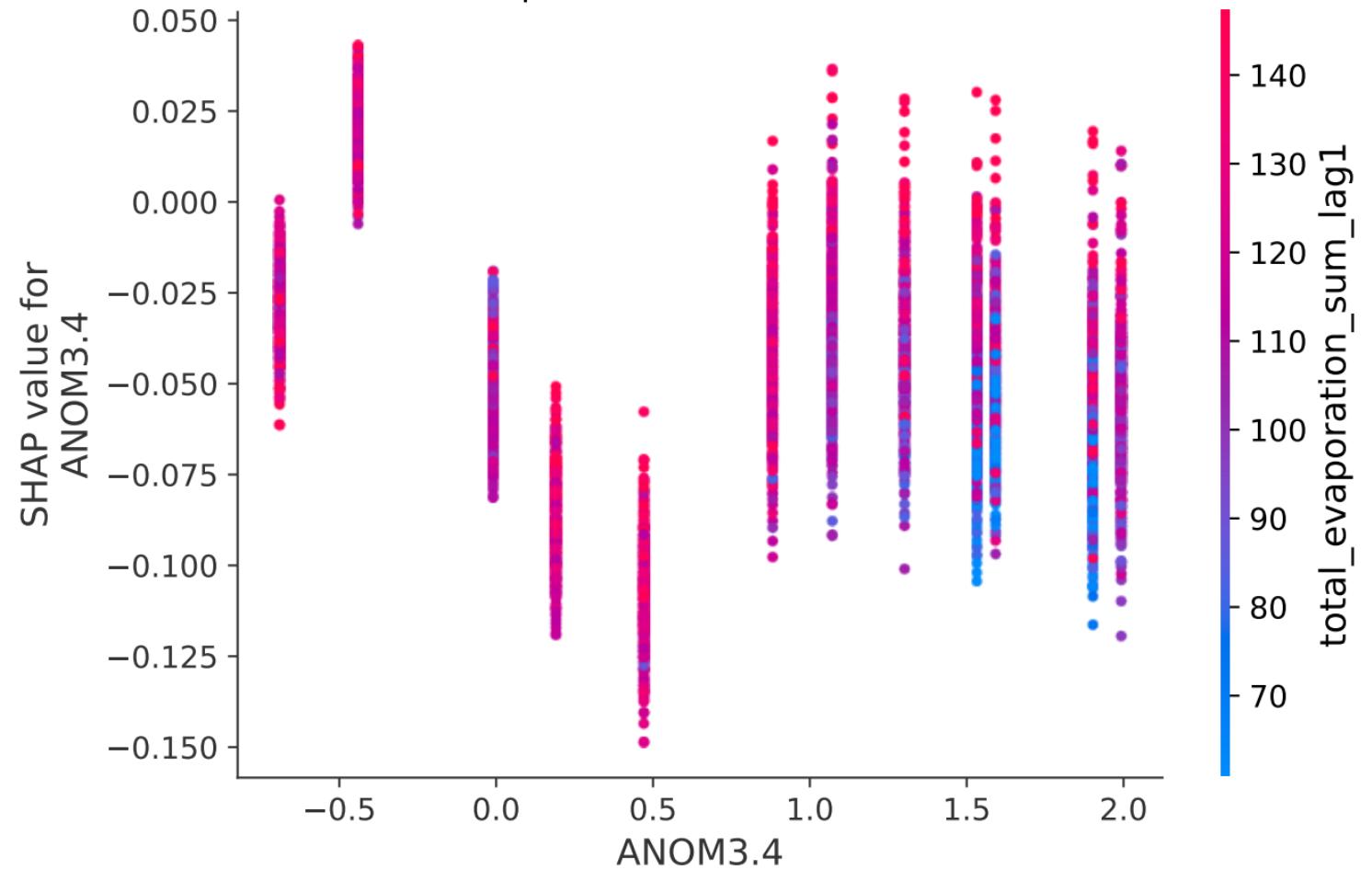
SHAP Dependence - ANOM3 - Class 3



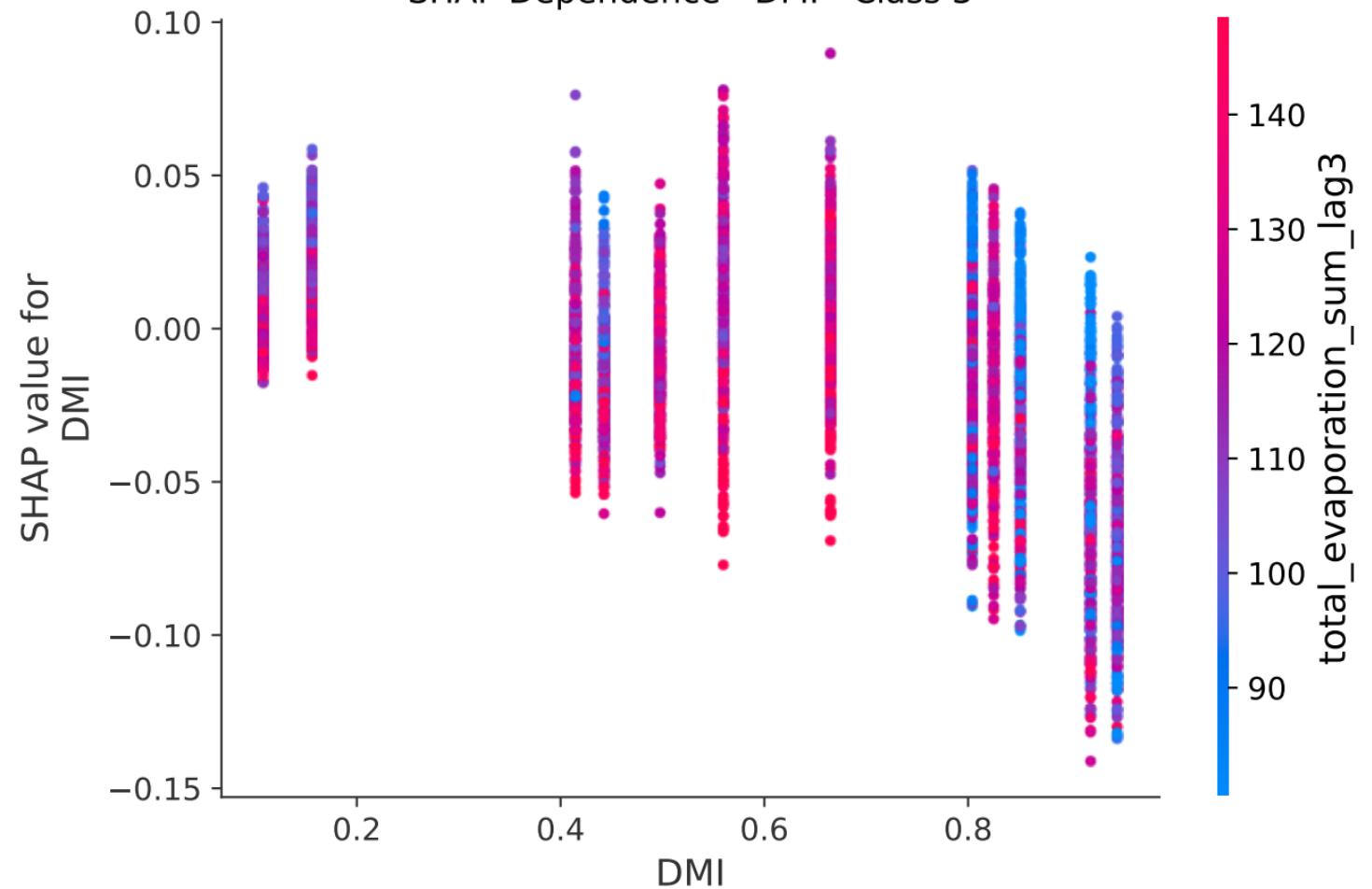
SHAP Dependence - ANOM4 - Class 3



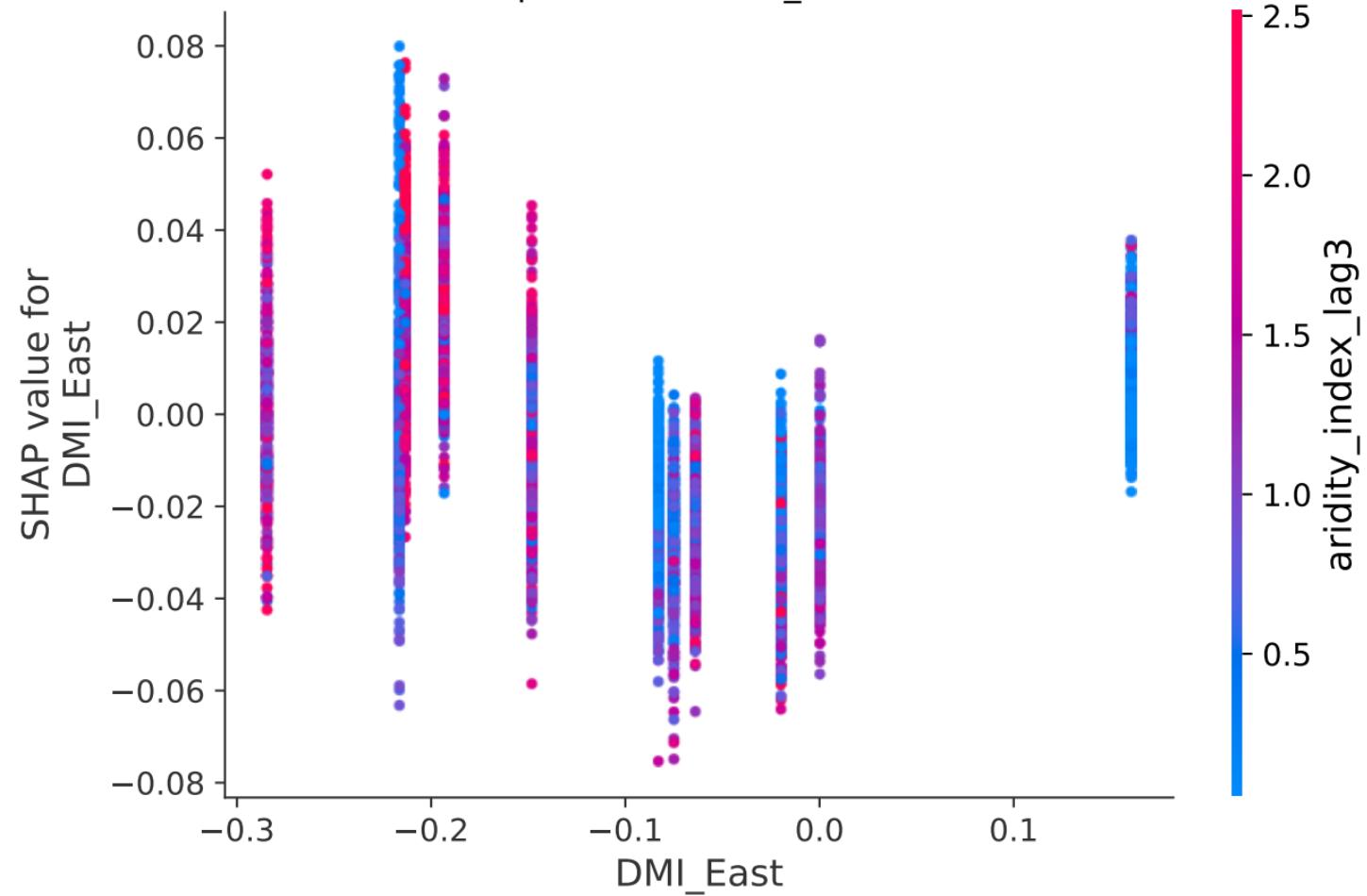
SHAP Dependence - ANOM3.4 - Class 3



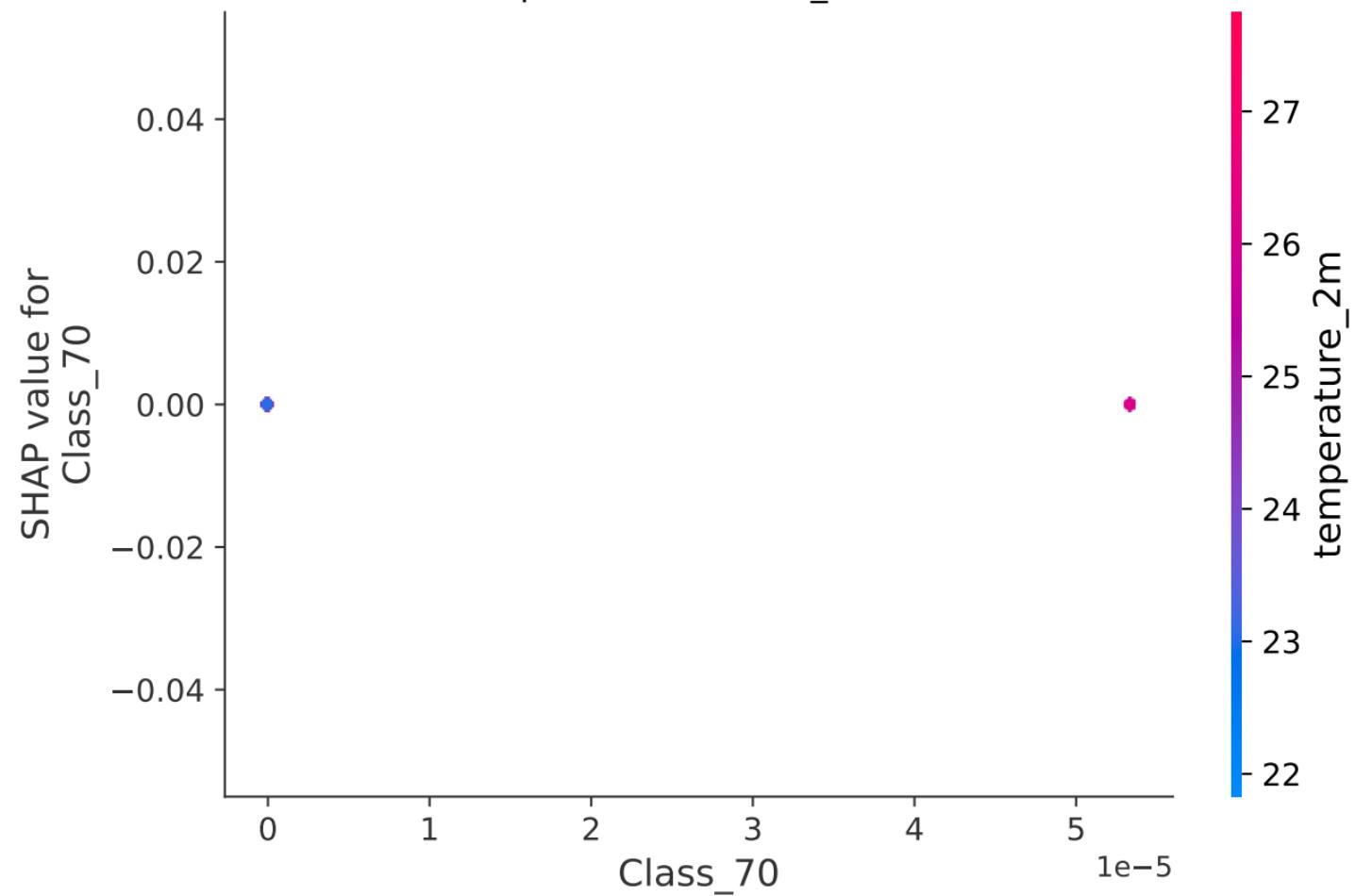
SHAP Dependence - DMI - Class 3



SHAP Dependence - DMI_East - Class 3

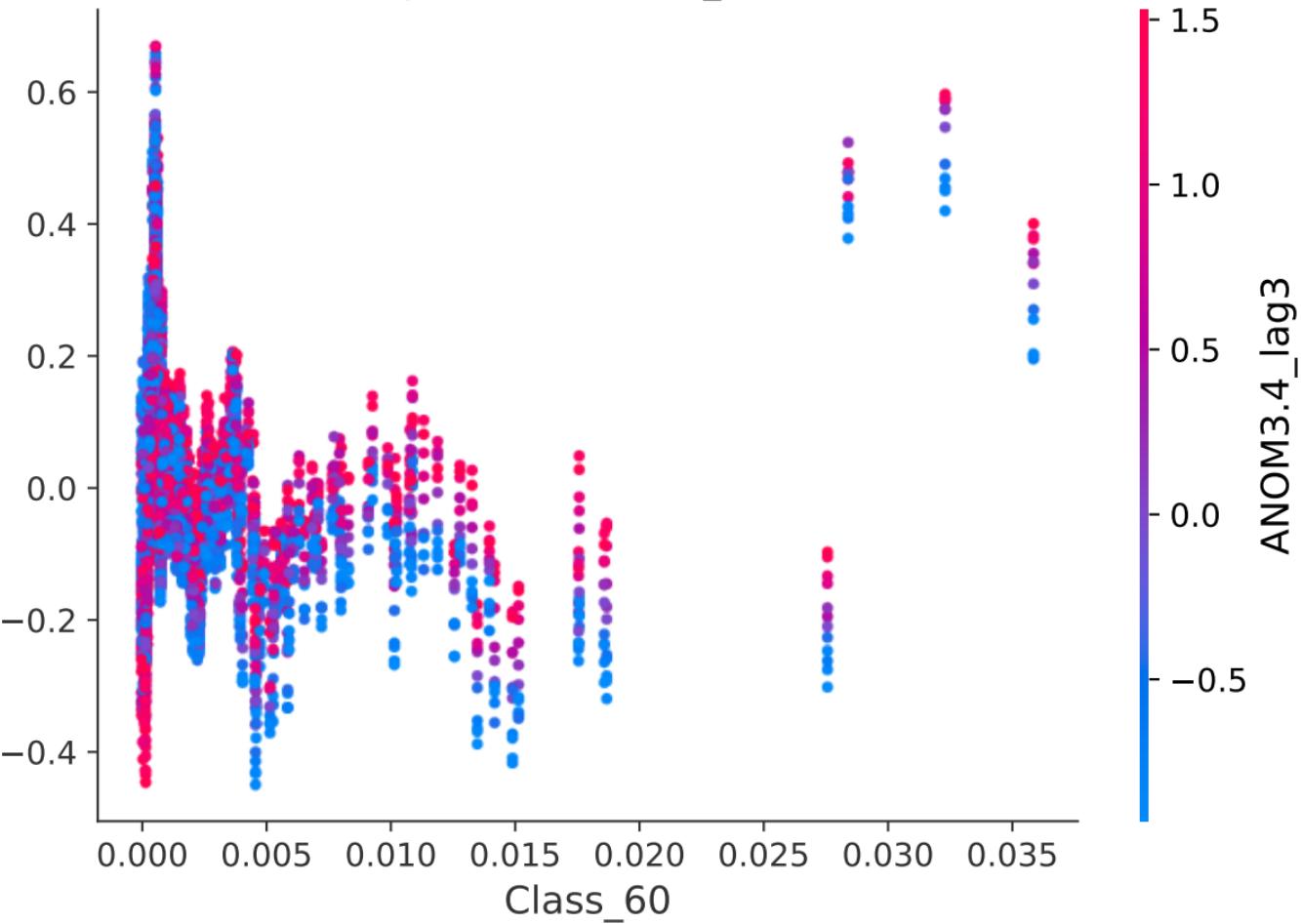


SHAP Dependence - Class_70 - Class 3

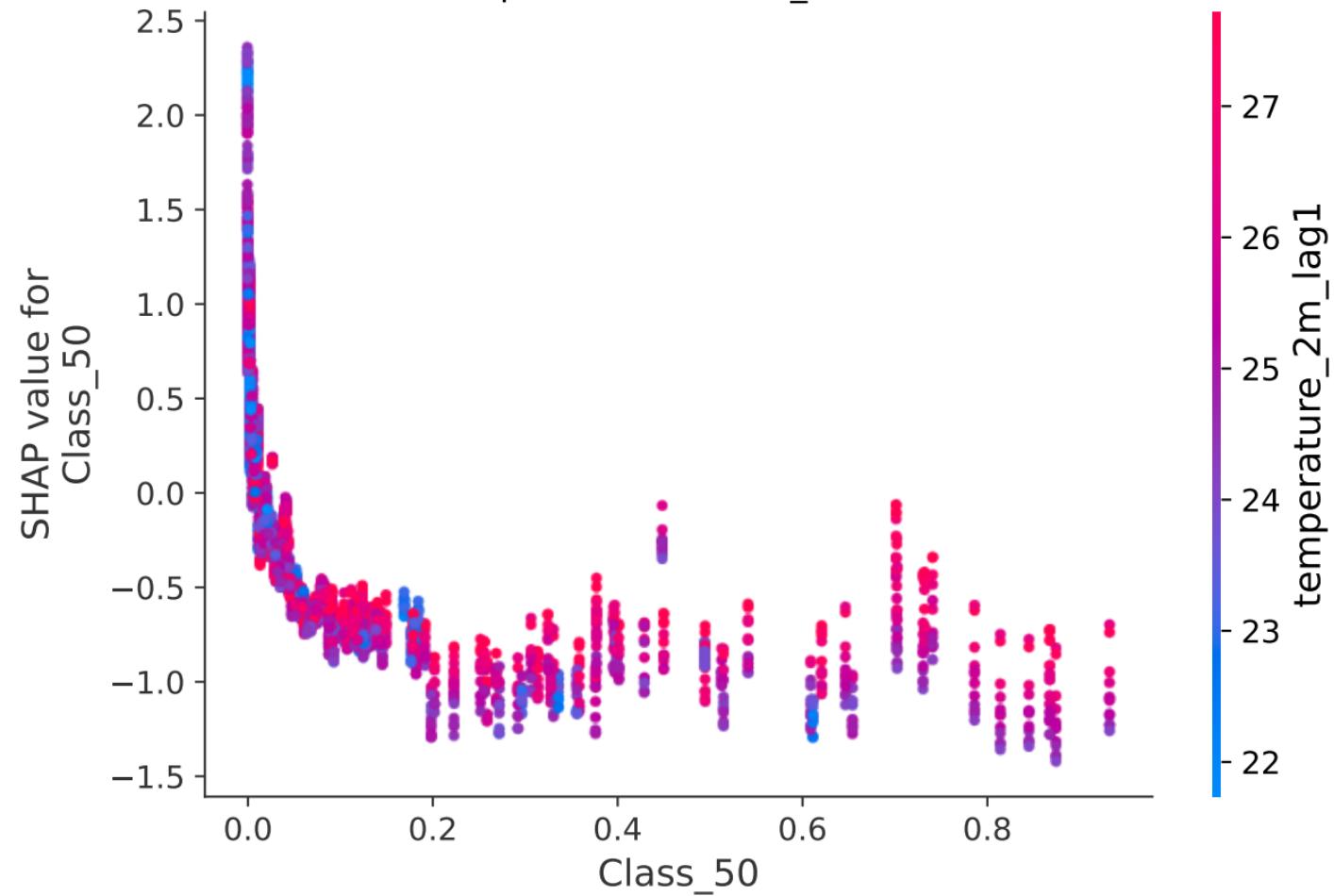


SHAP Dependence - Class_60 - Class 3

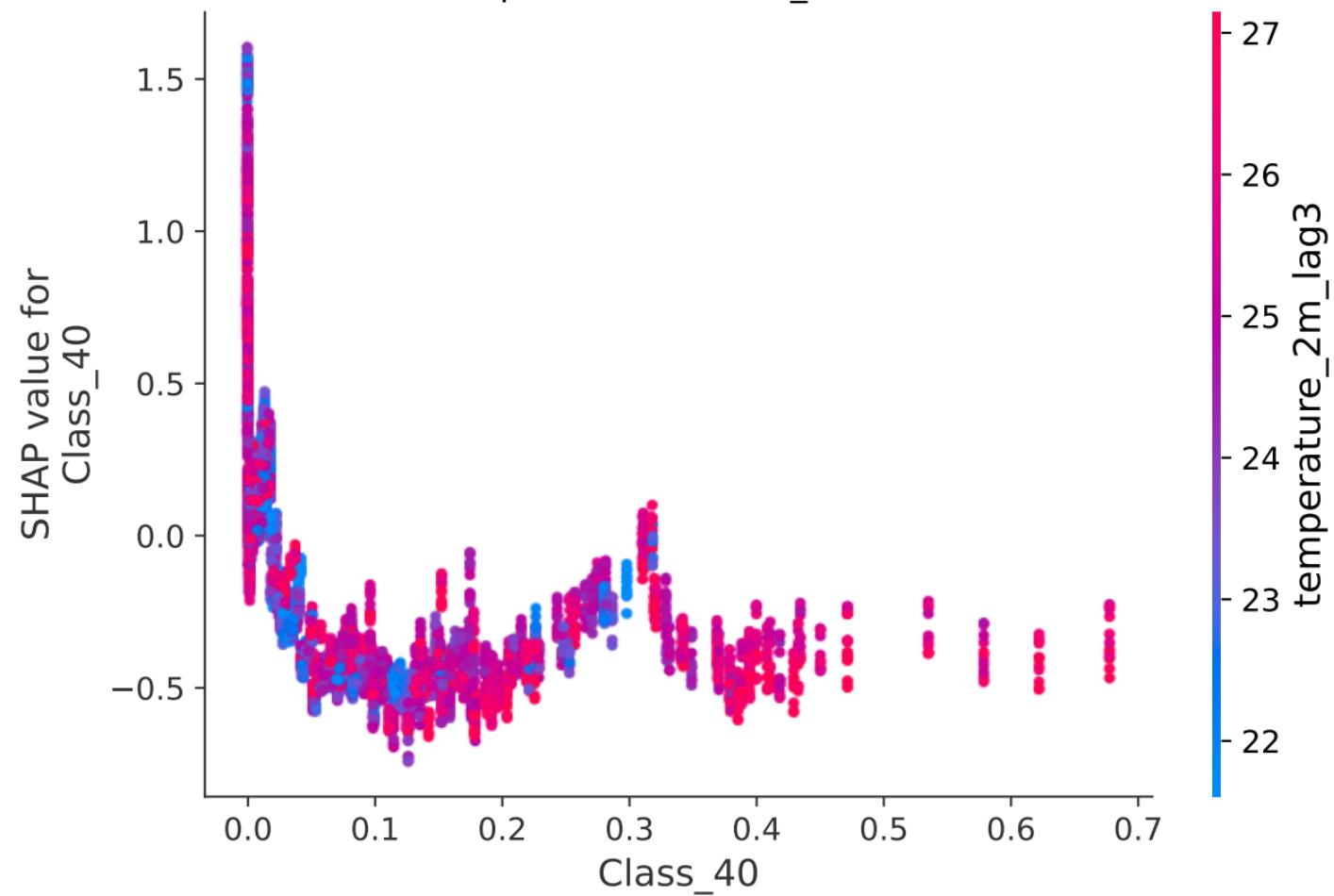
SHAP value for
Class_60



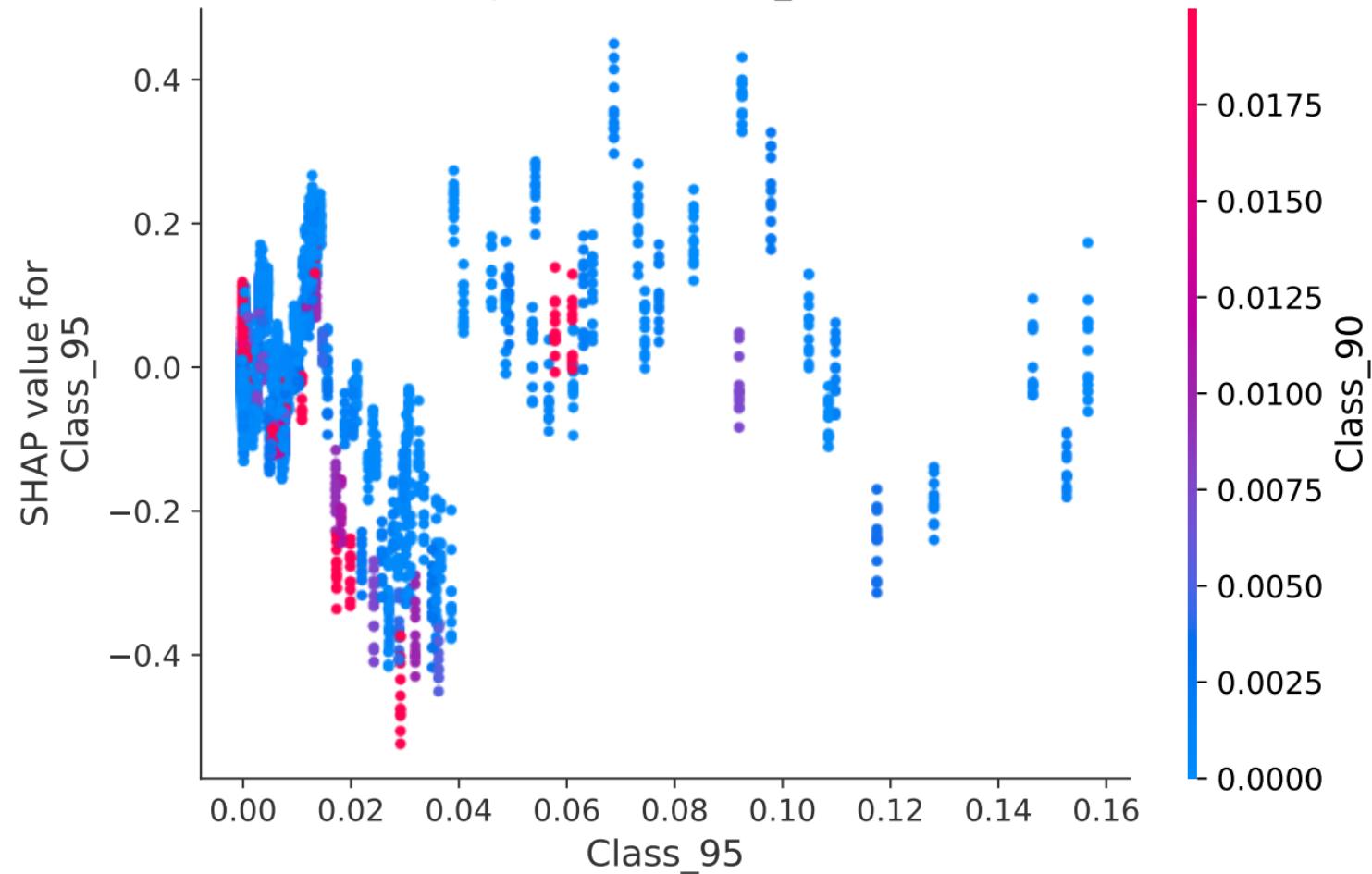
SHAP Dependence - Class_50 - Class 3



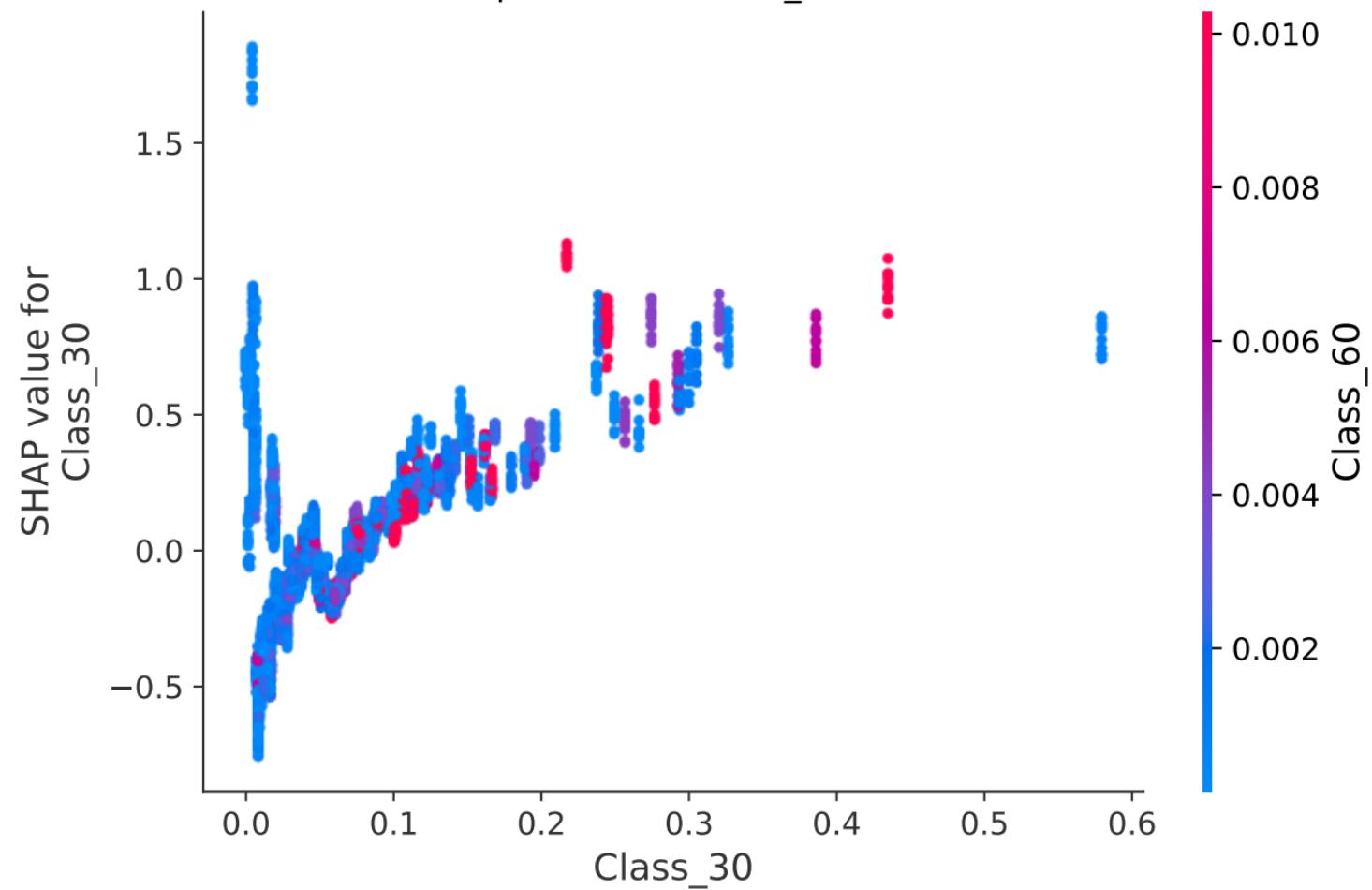
SHAP Dependence - Class_40 - Class 3



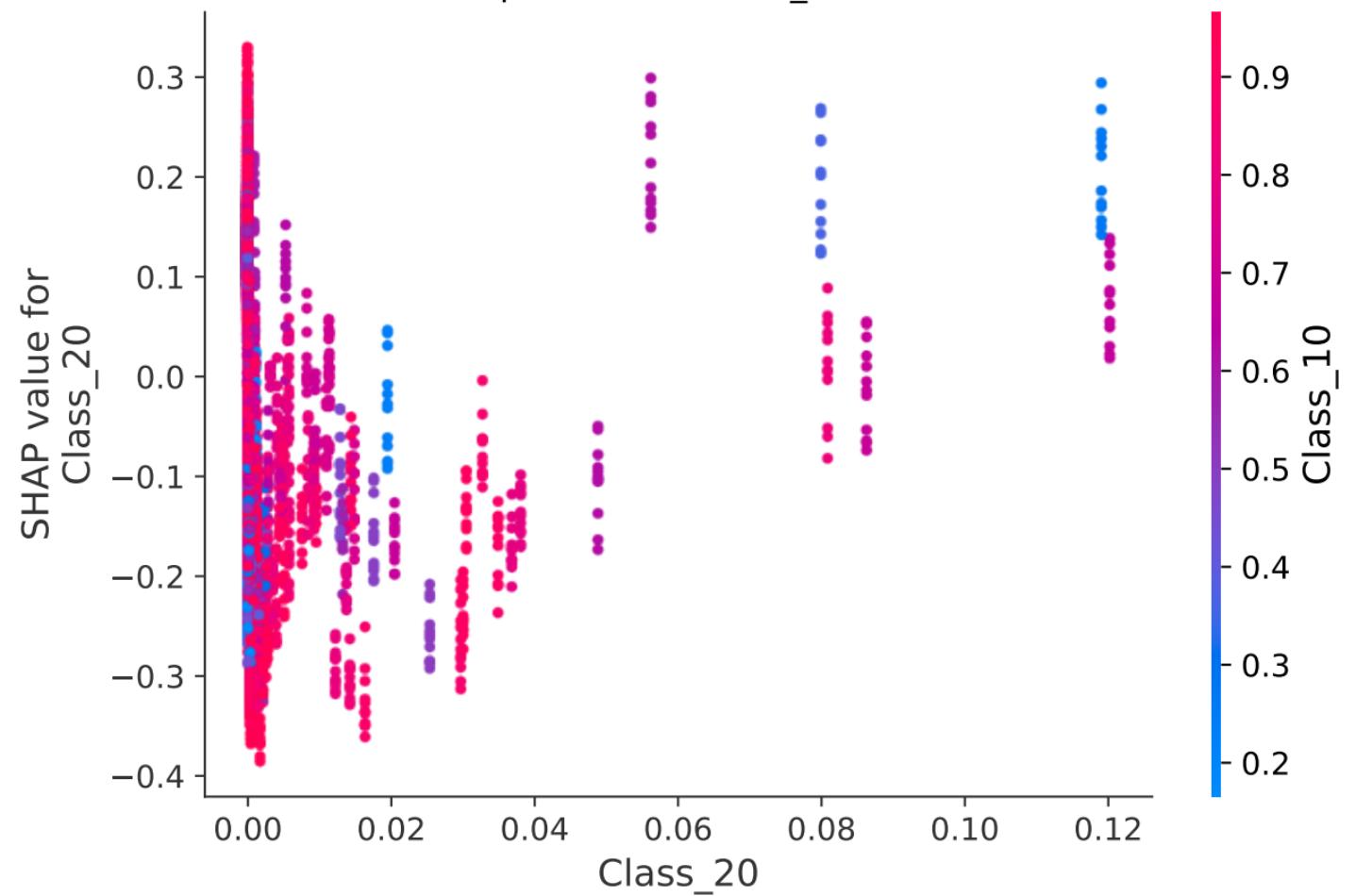
SHAP Dependence - Class_95 - Class 3



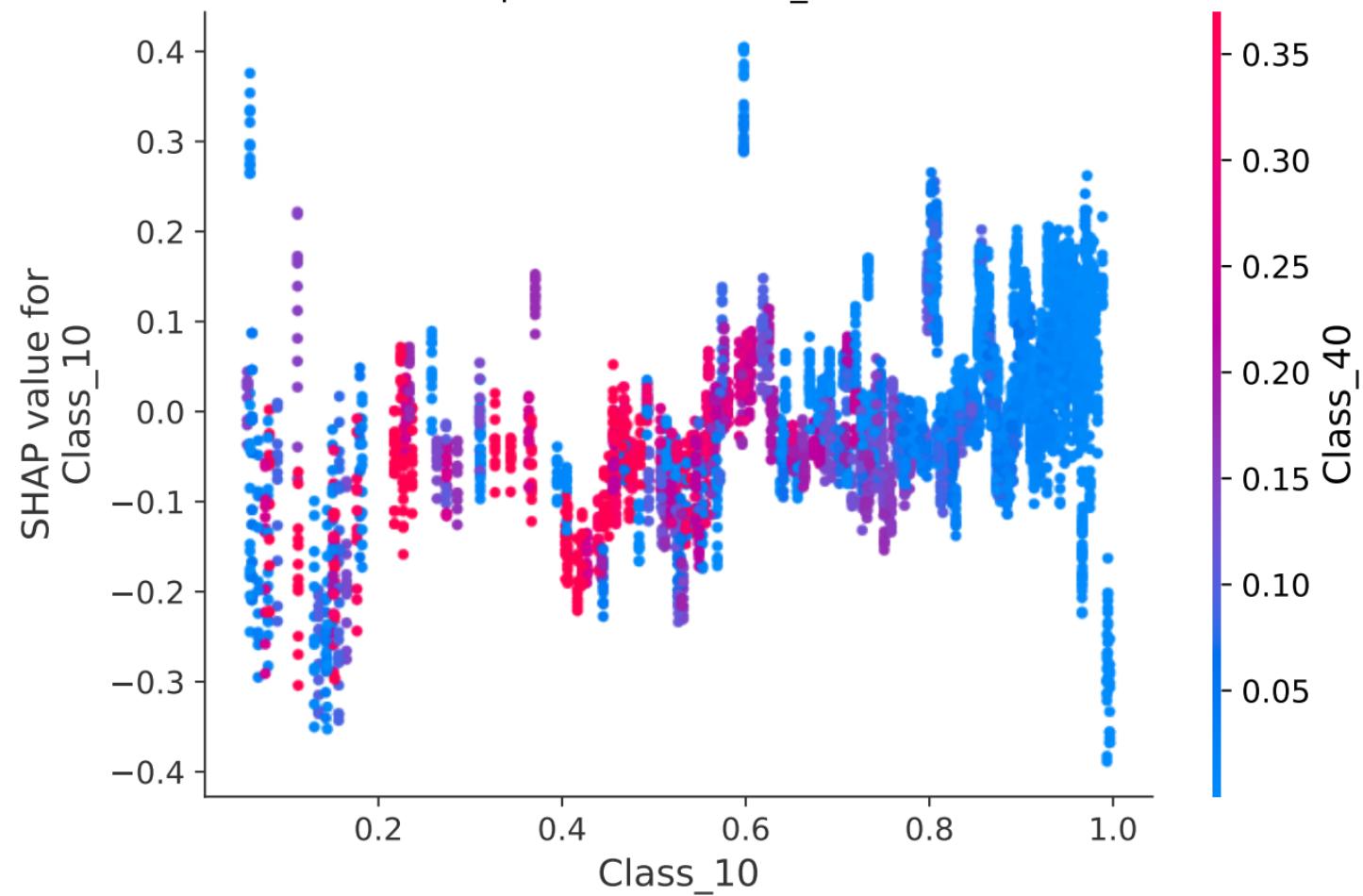
SHAP Dependence - Class_30 - Class 3



SHAP Dependence - Class_20 - Class 3

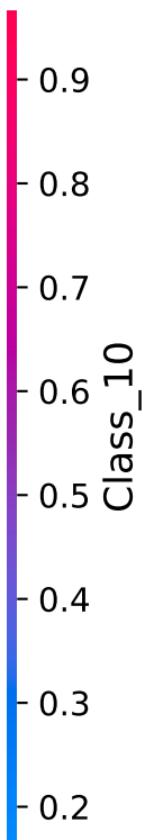
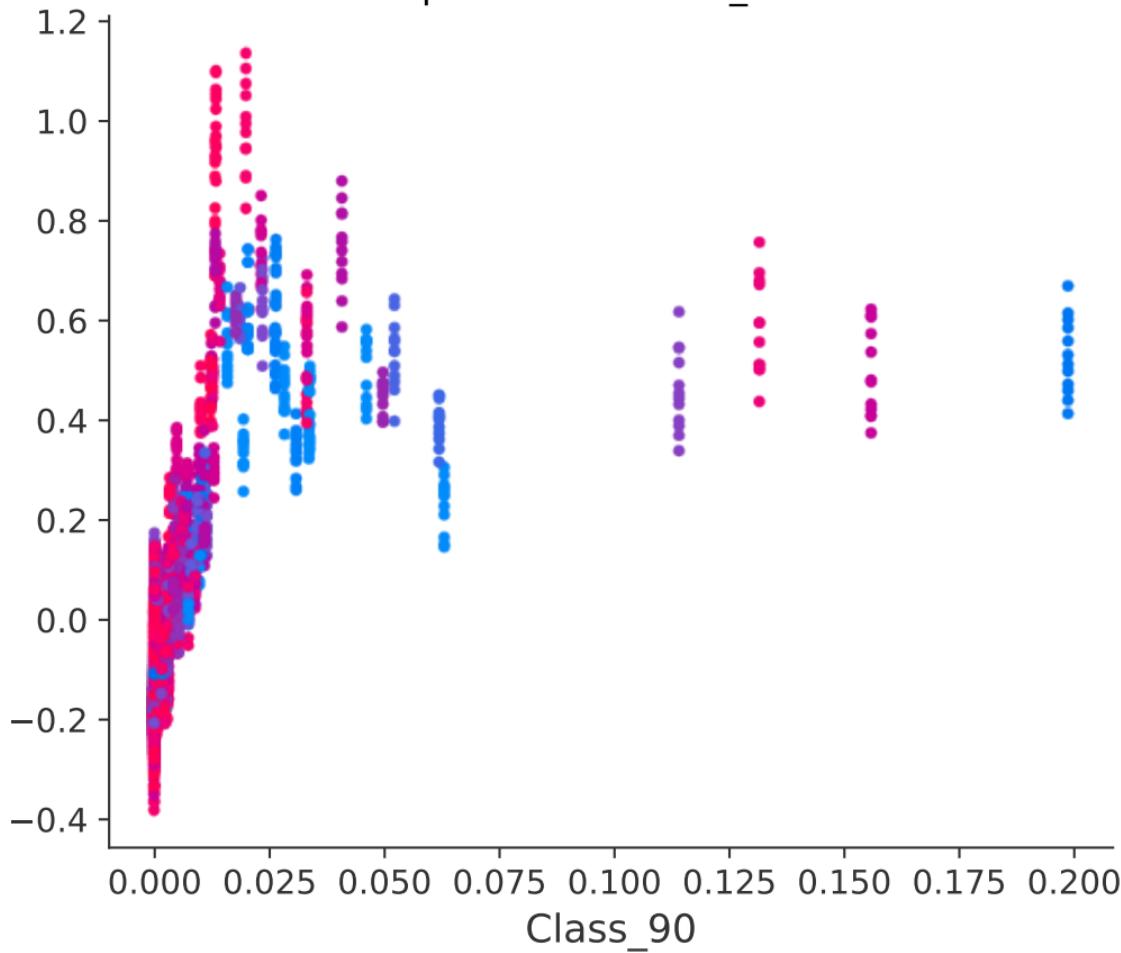


SHAP Dependence - Class_10 - Class 3



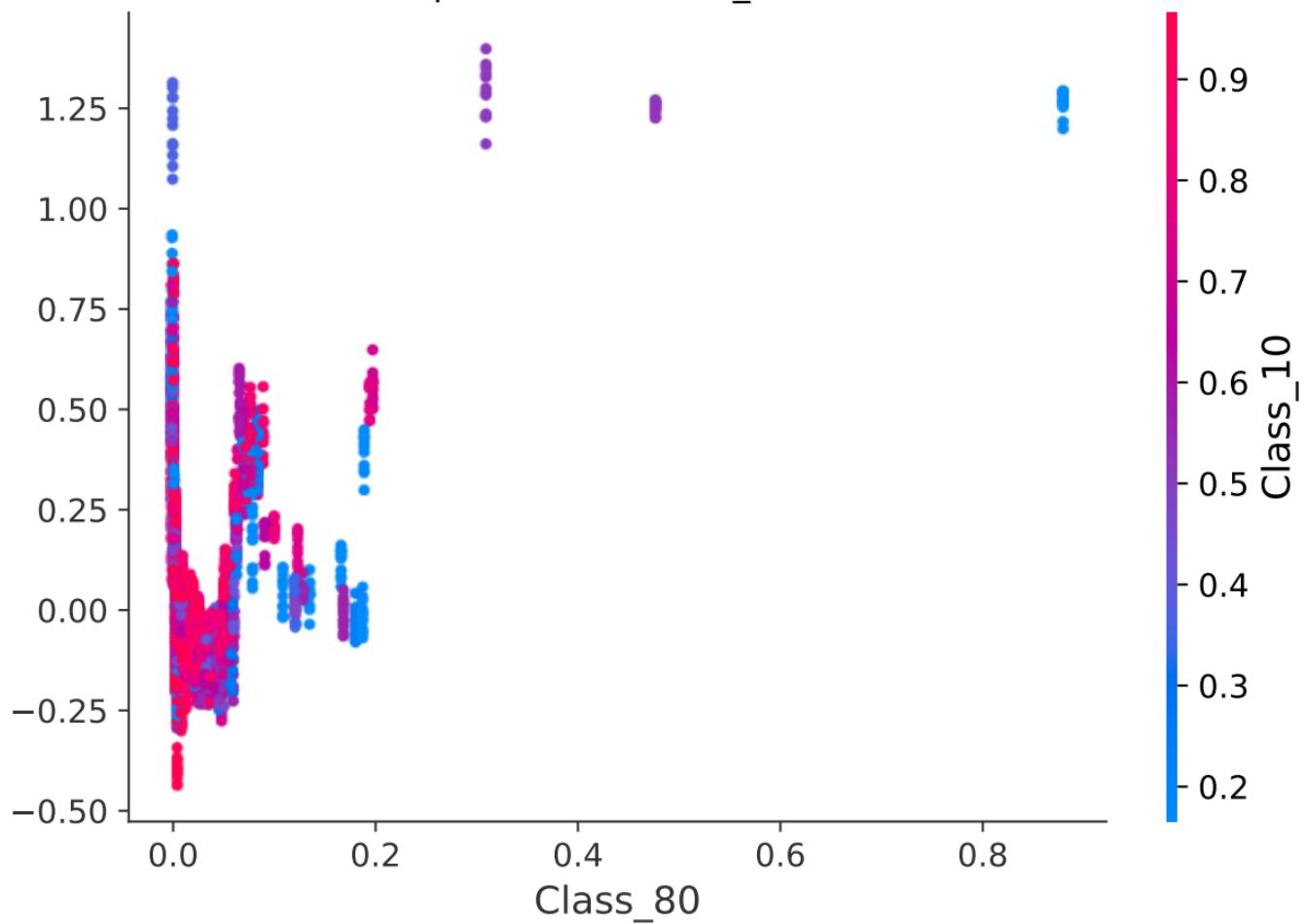
SHAP Dependence - Class_90 - Class 3

SHAP value for
Class_90

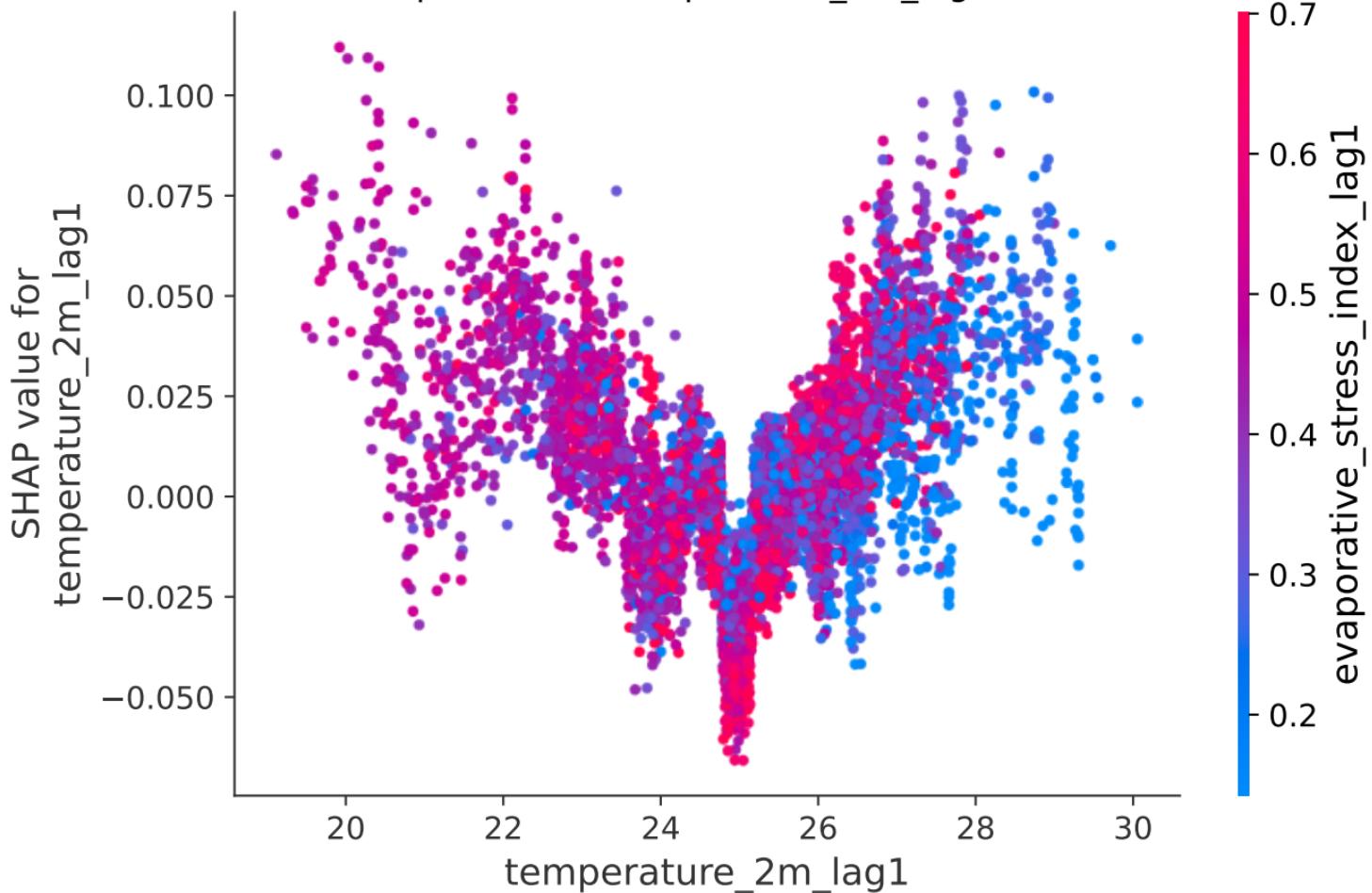


SHAP Dependence - Class_80 - Class_3

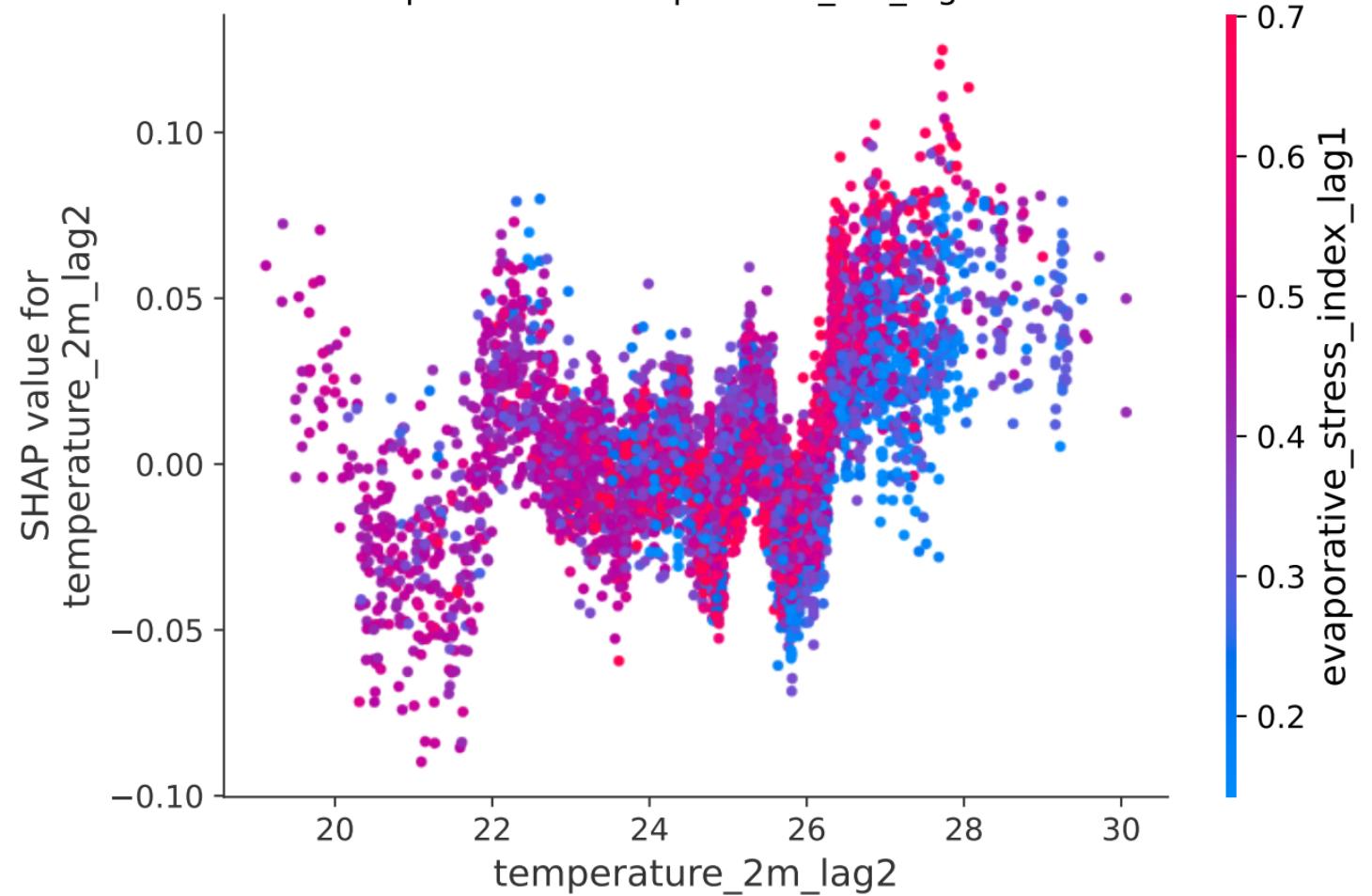
SHAP value for
Class_80



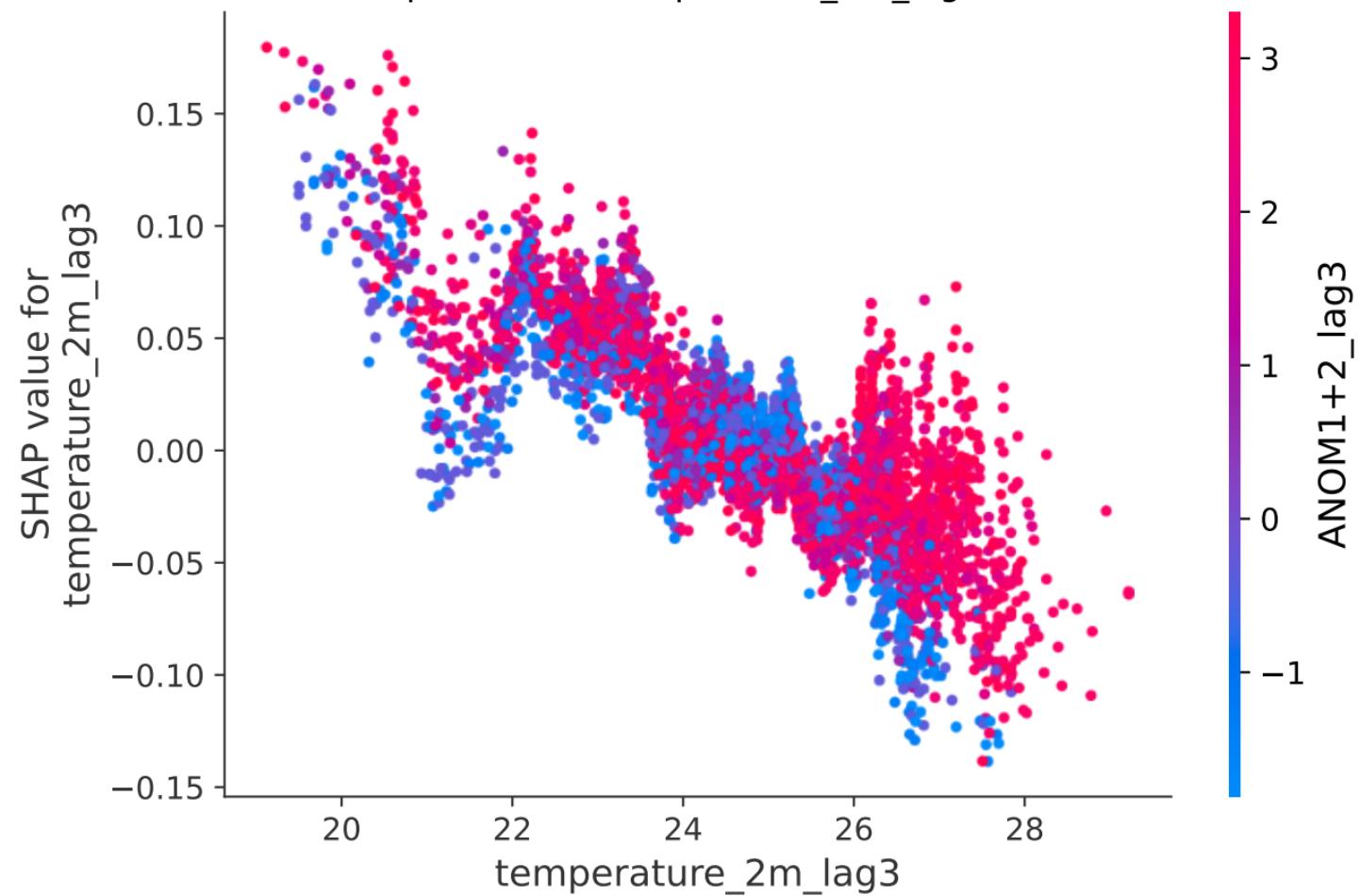
SHAP Dependence - temperature_2m_lag1 - Class 3



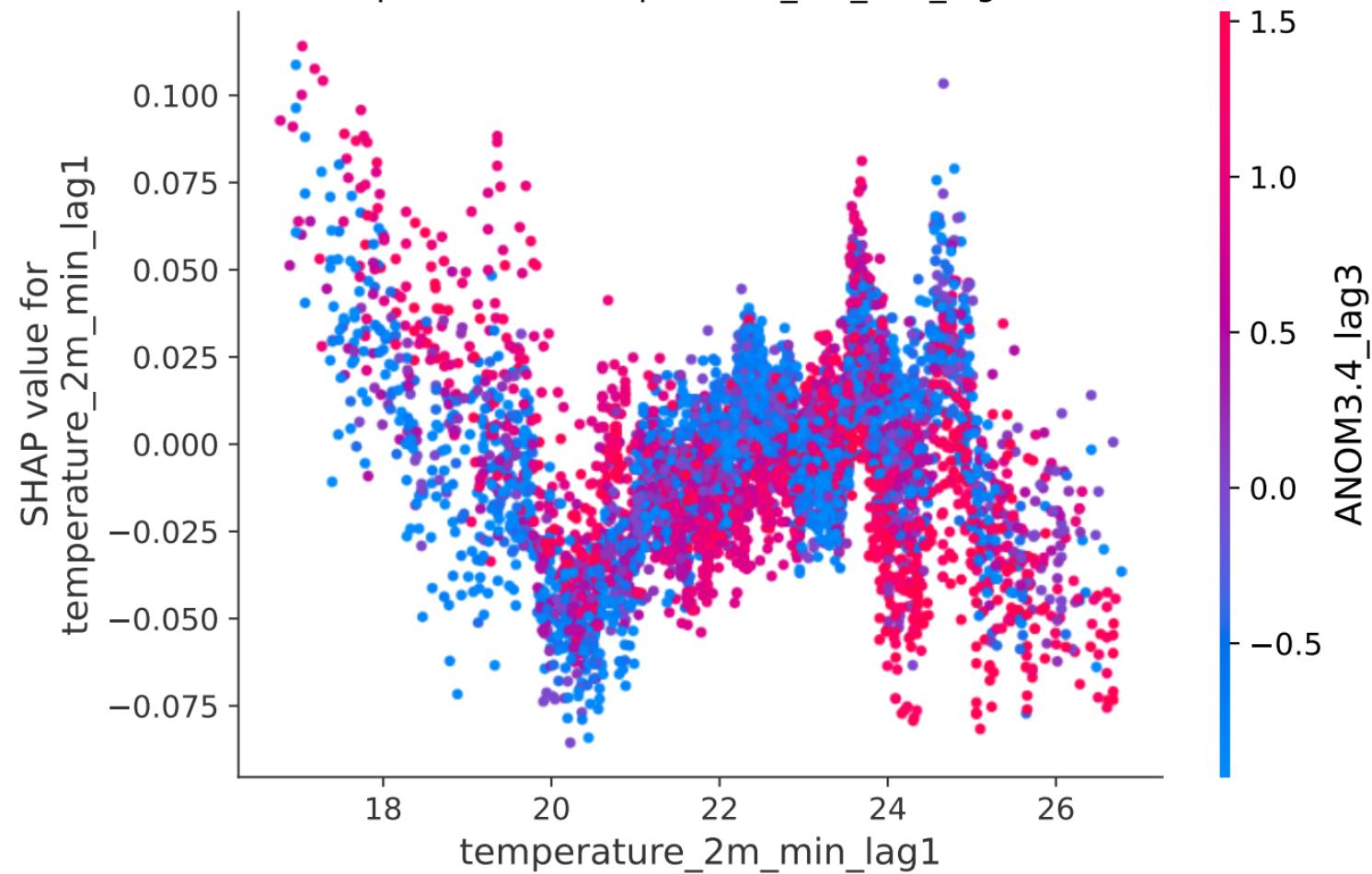
SHAP Dependence - temperature_2m_lag2 - Class 3



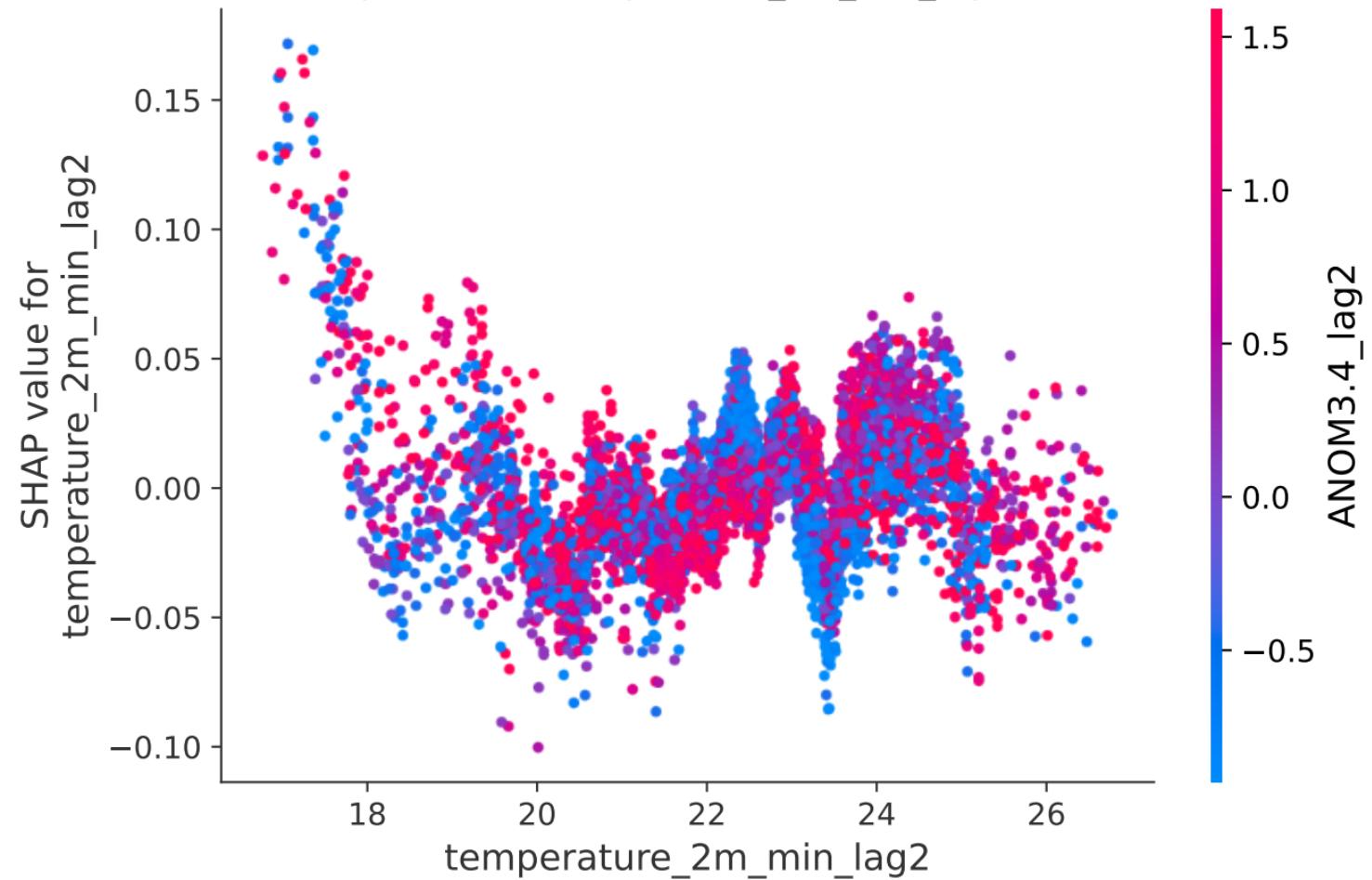
SHAP Dependence - temperature_2m_lag3 - Class 3



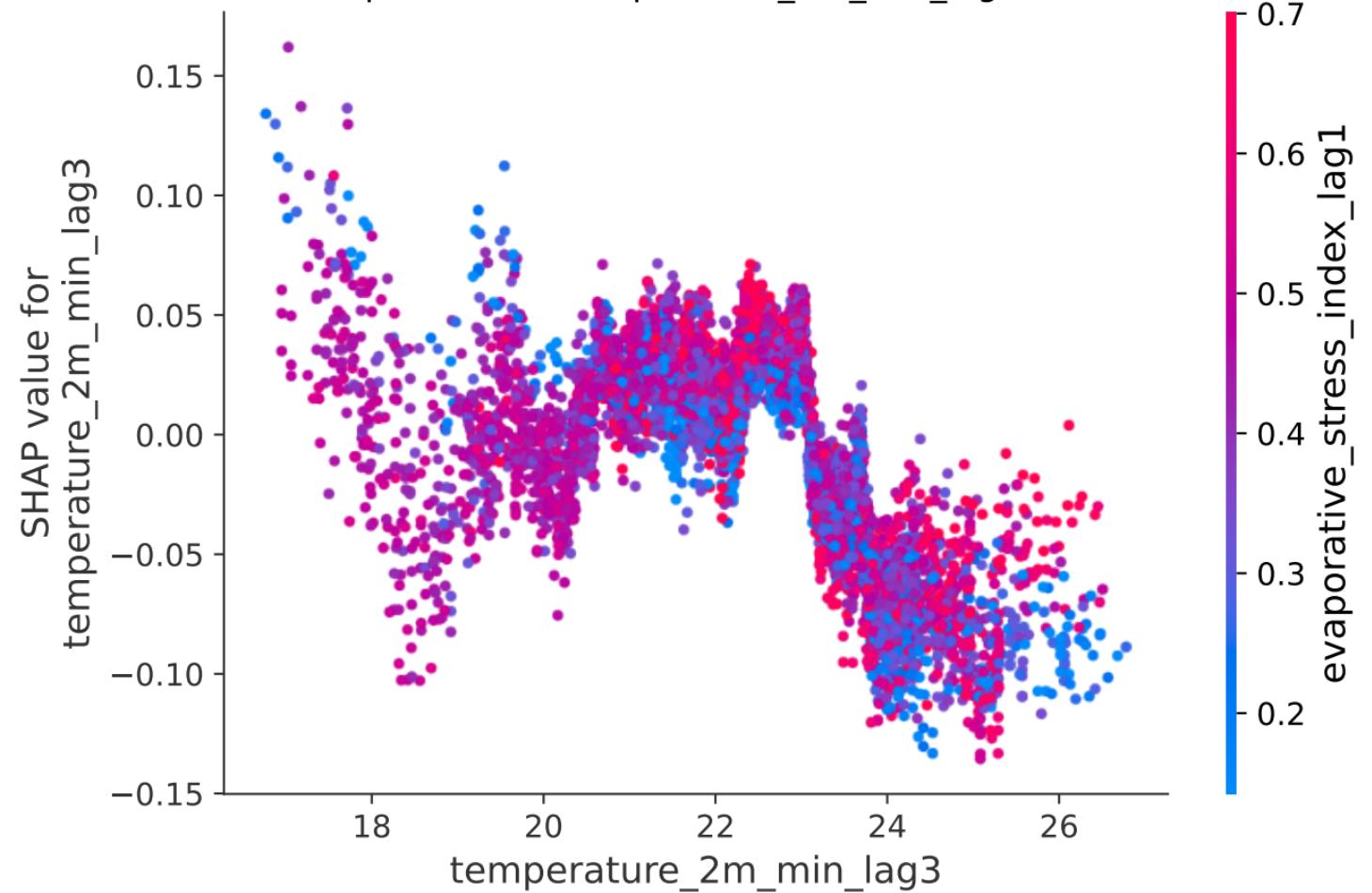
SHAP Dependence - temperature_2m_min_lag1 - Class 3



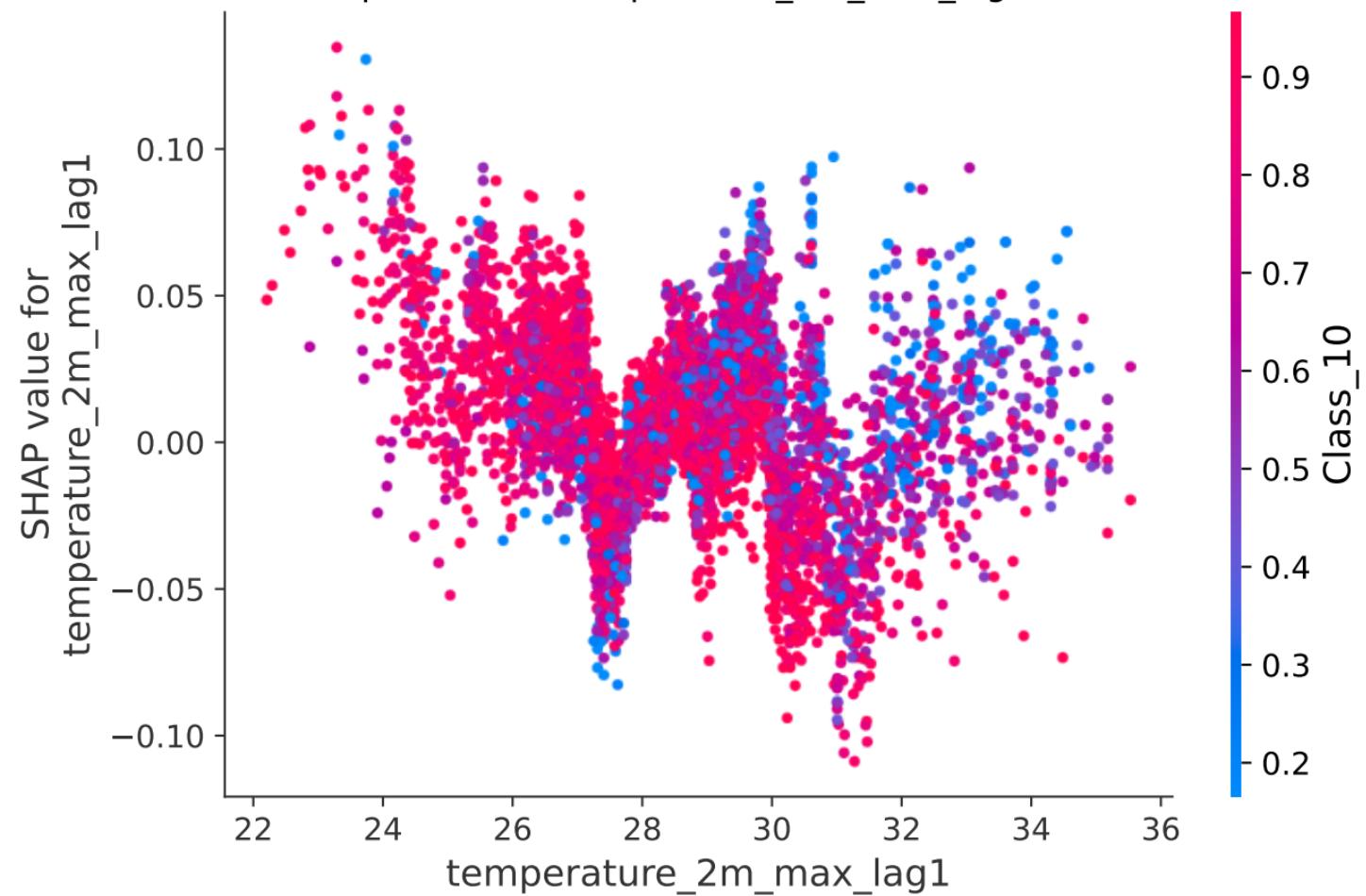
SHAP Dependence - temperature_2m_min_lag2 - Class 3



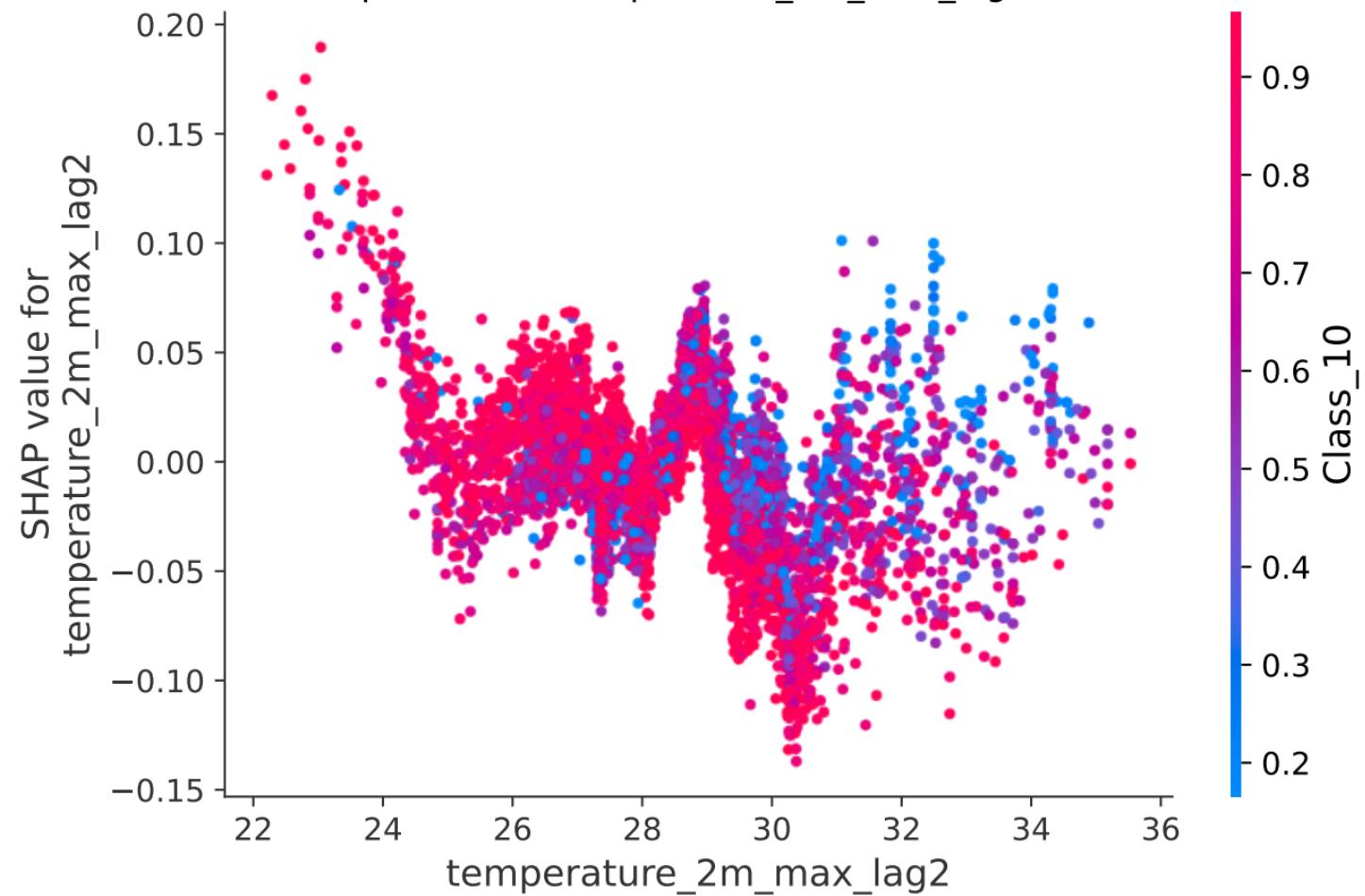
SHAP Dependence - temperature_2m_min_lag3 - Class 3



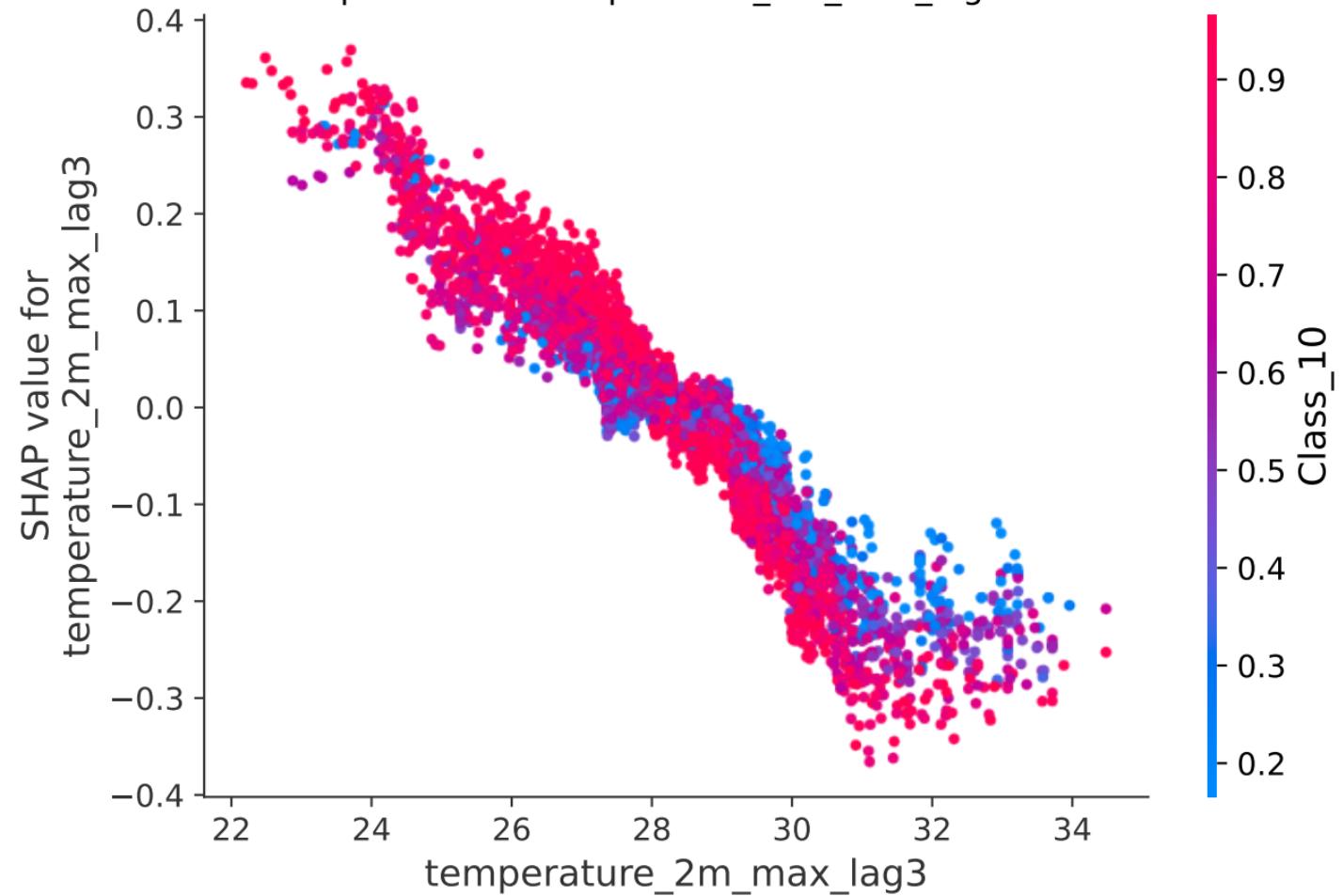
SHAP Dependence - temperature_2m_max_lag1 - Class 3



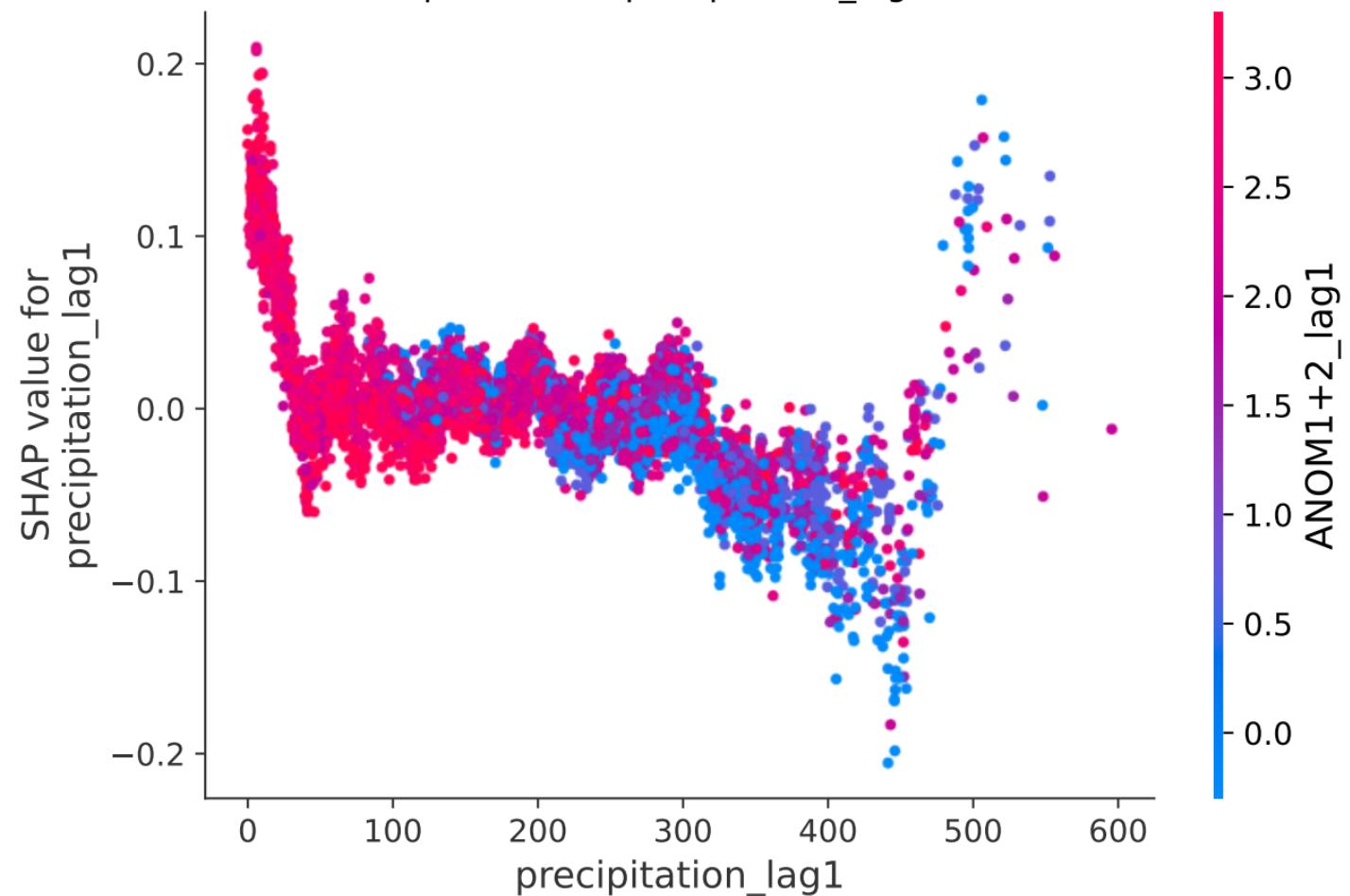
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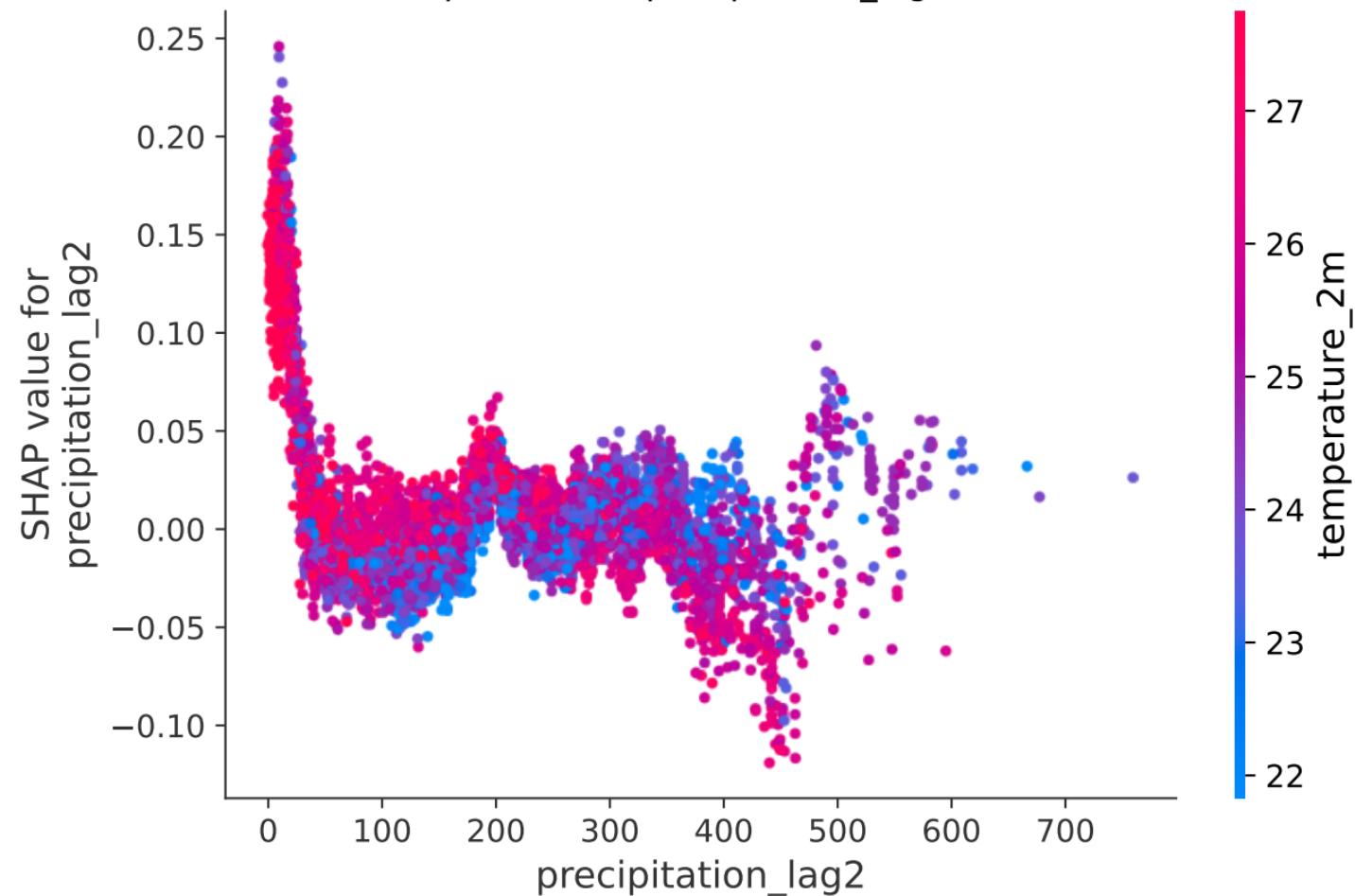
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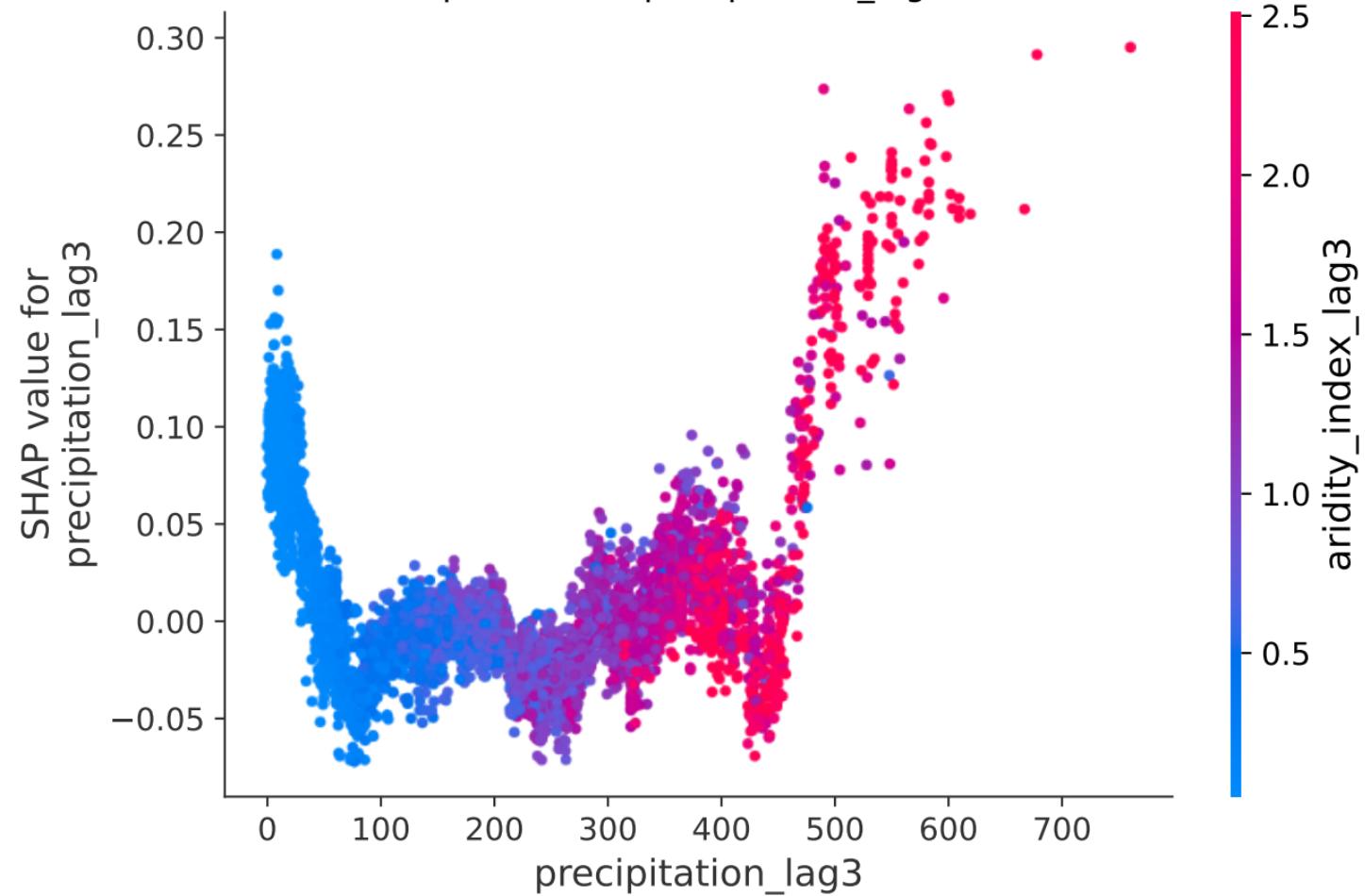
SHAP Dependence - precipitation_lag1 - Class 3



SHAP Dependence - precipitation_lag2 - Class 3

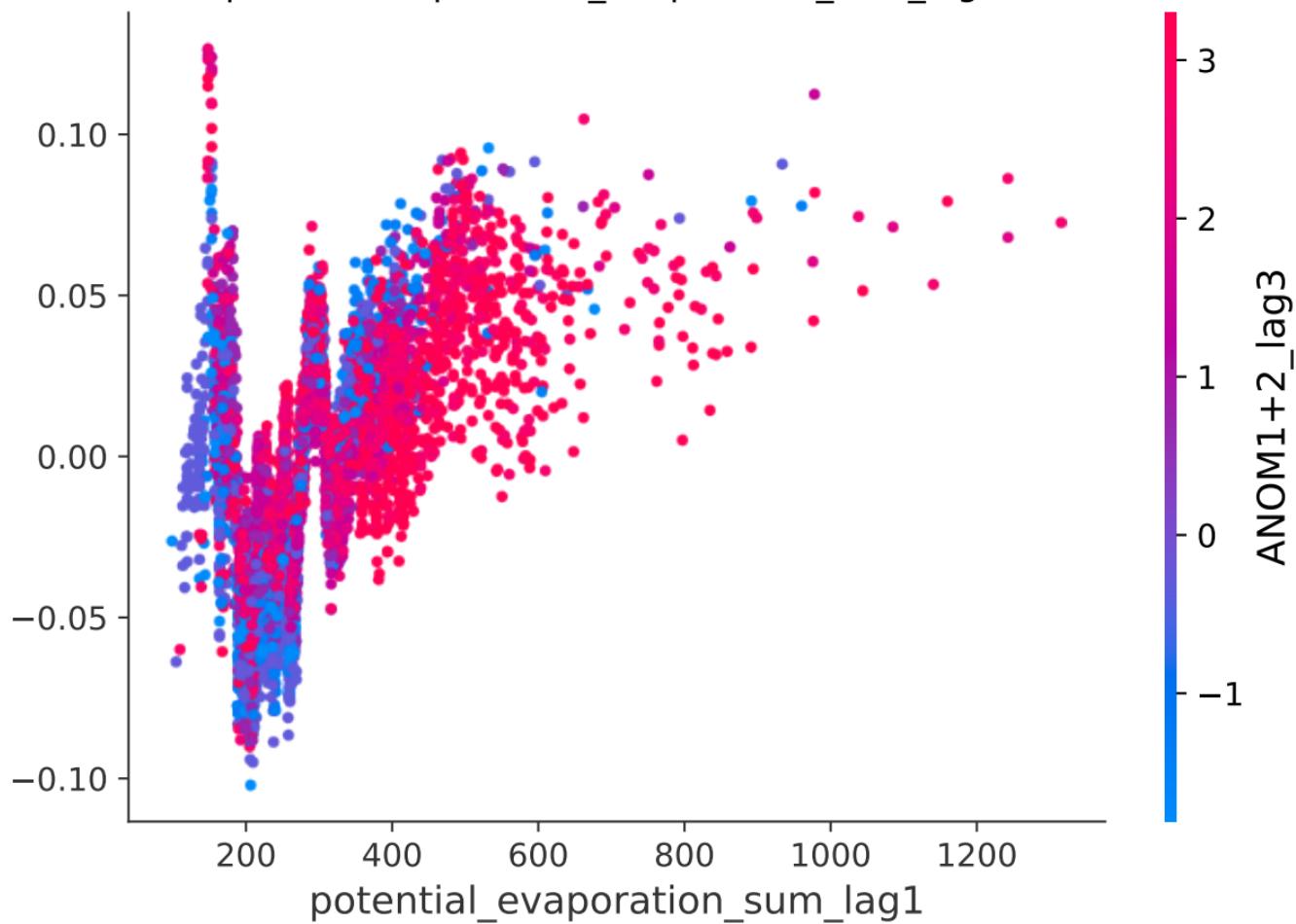


SHAP Dependence - precipitation_lag3 - Class 3

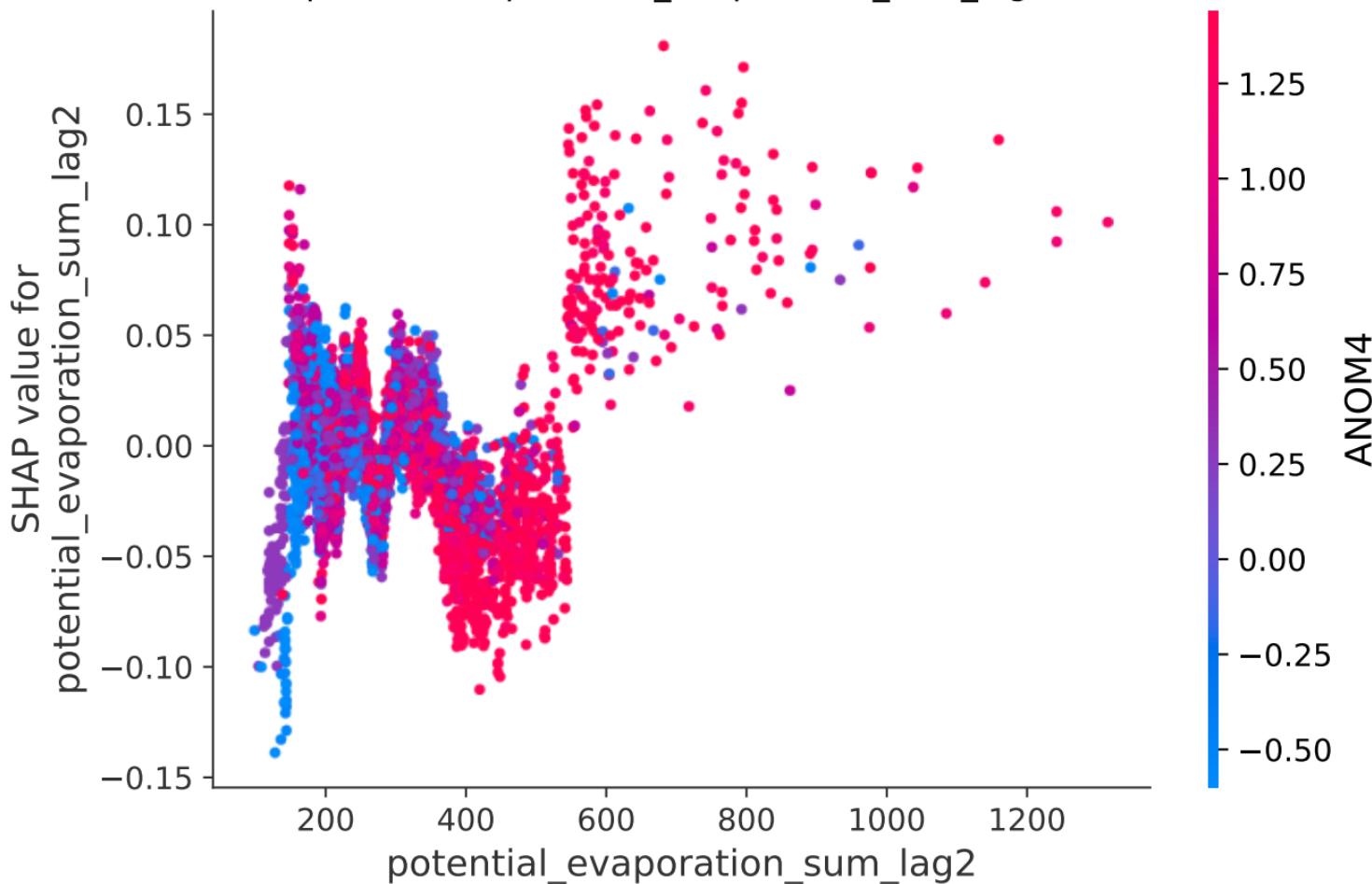


SHAP Dependence - potential_evaporation_sum_lag1 - Class 3

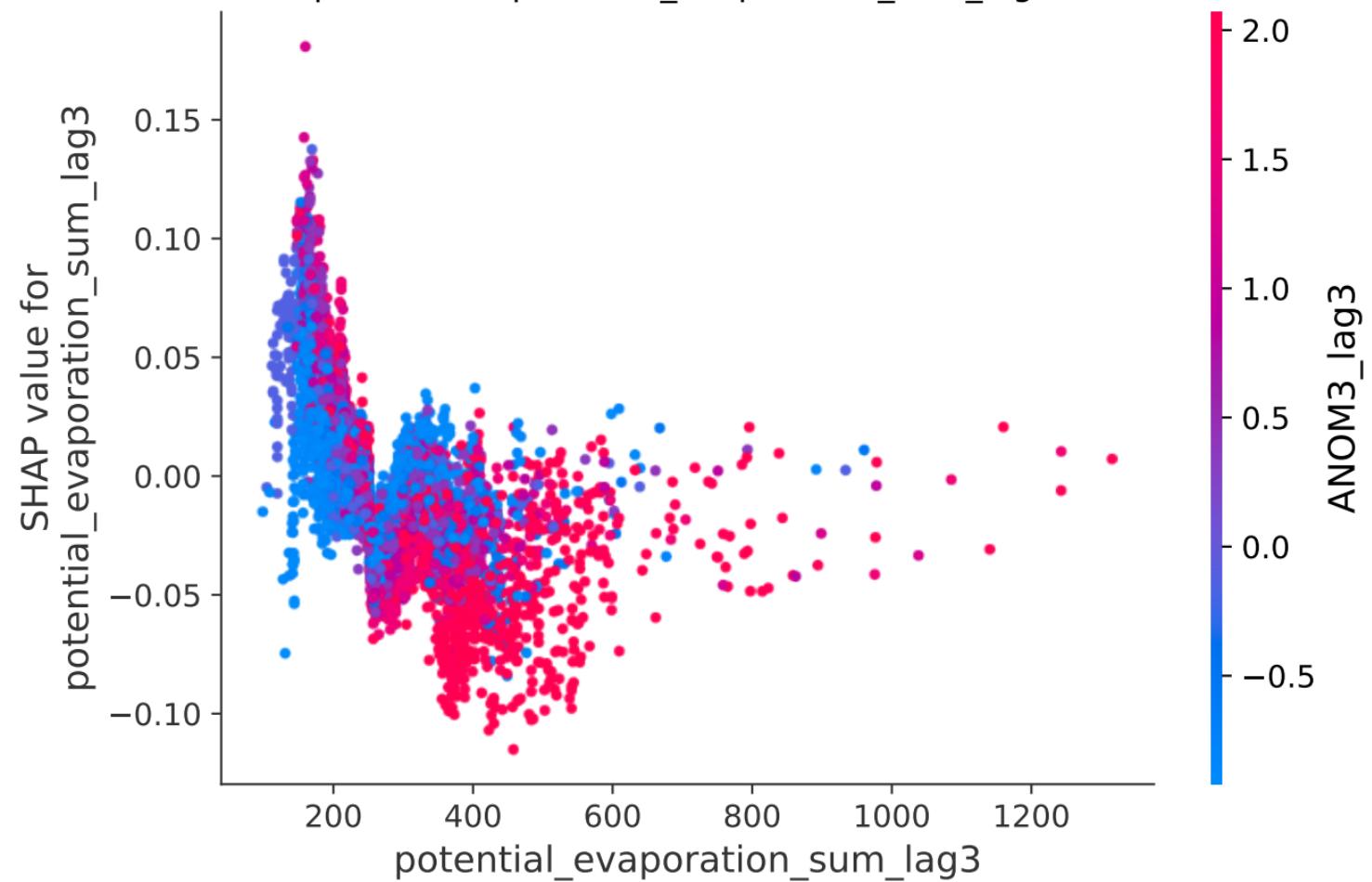
SHAP value for
potential_evaporation_sum_lag1



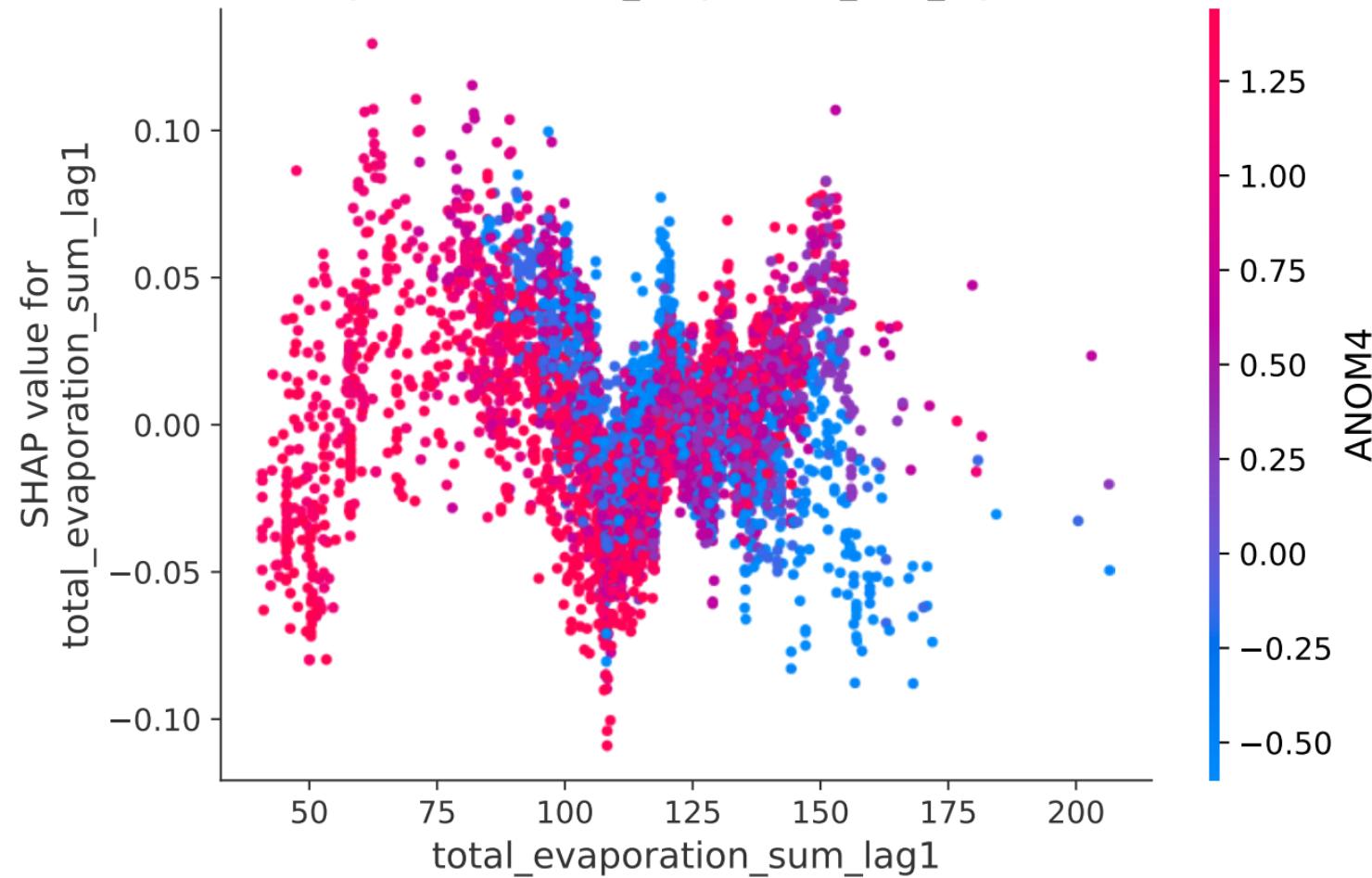
SHAP Dependence - potential_evaporation_sum_lag2 - Class 3



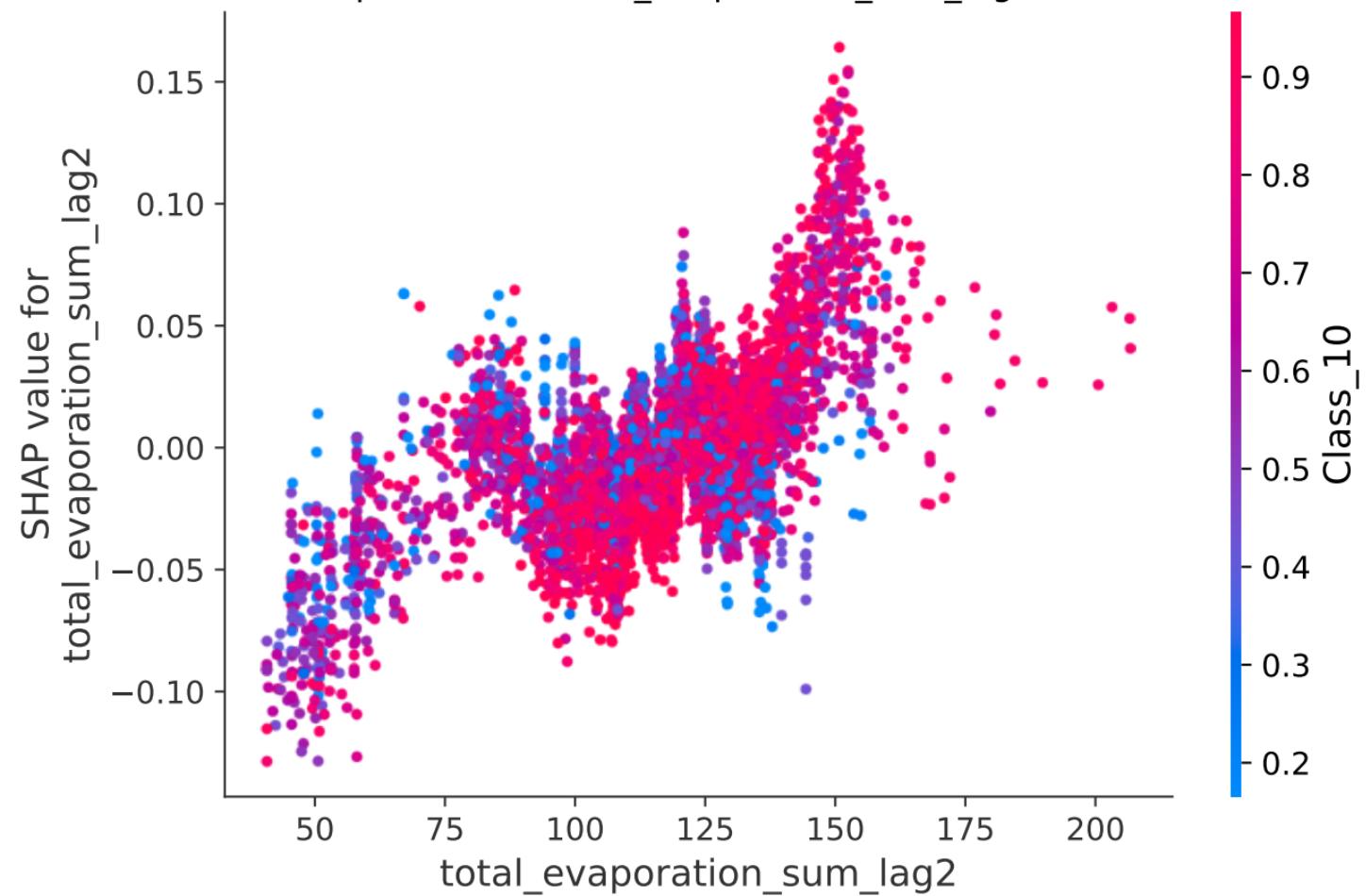
SHAP Dependence - potential_evaporation_sum_lag3 - Class 3



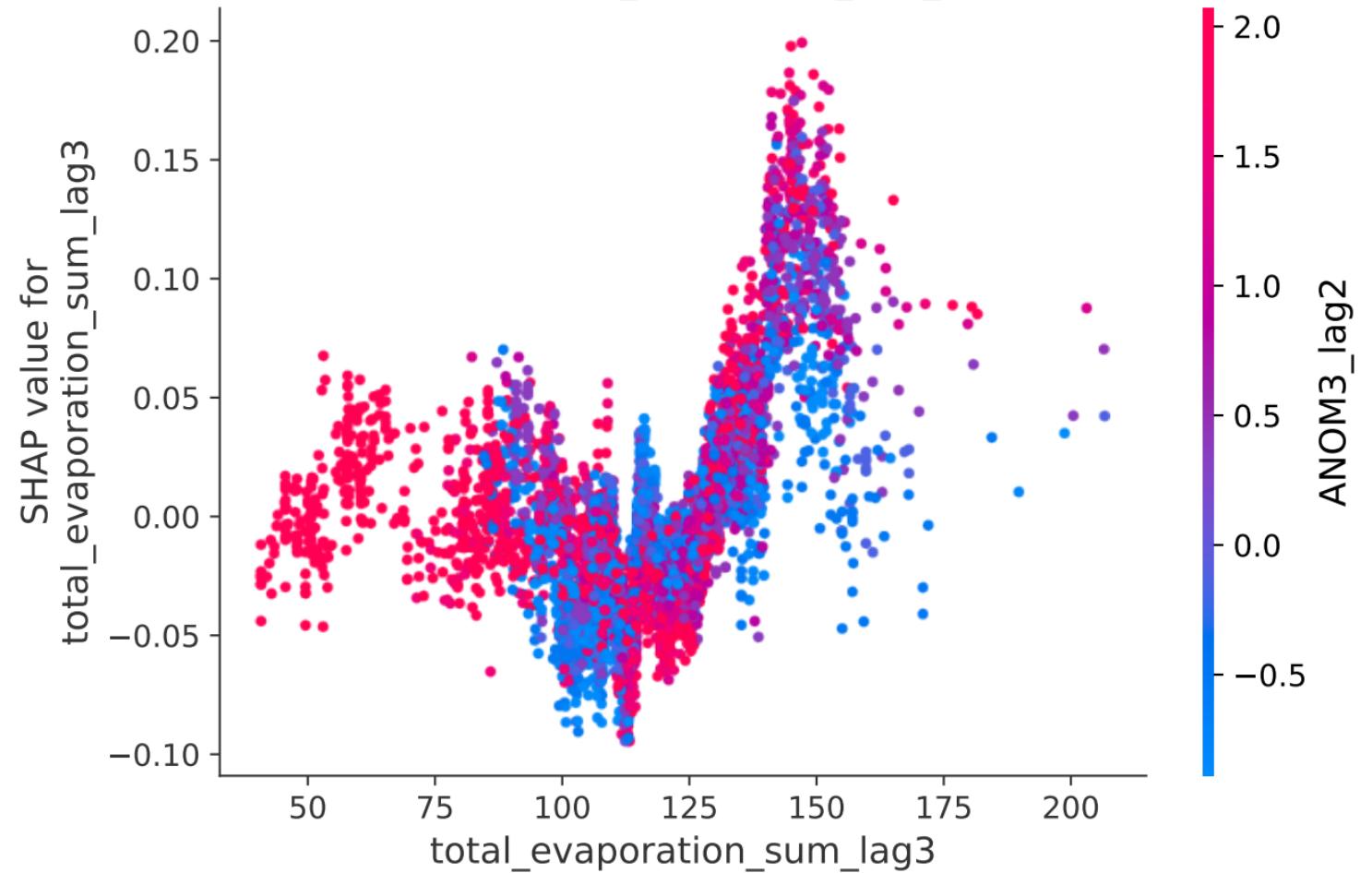
SHAP Dependence - total_evaporation_sum_lag1 - Class 3



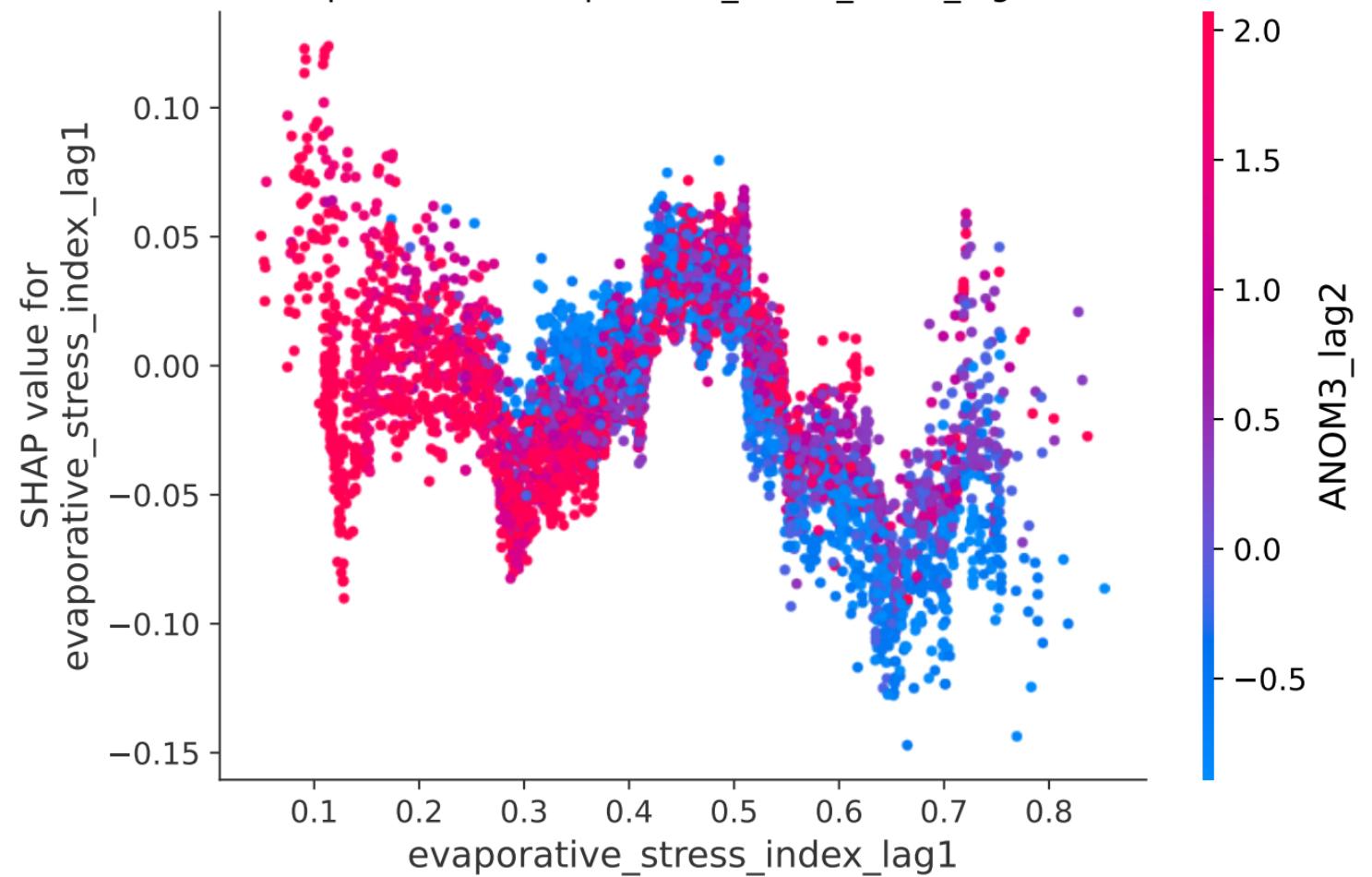
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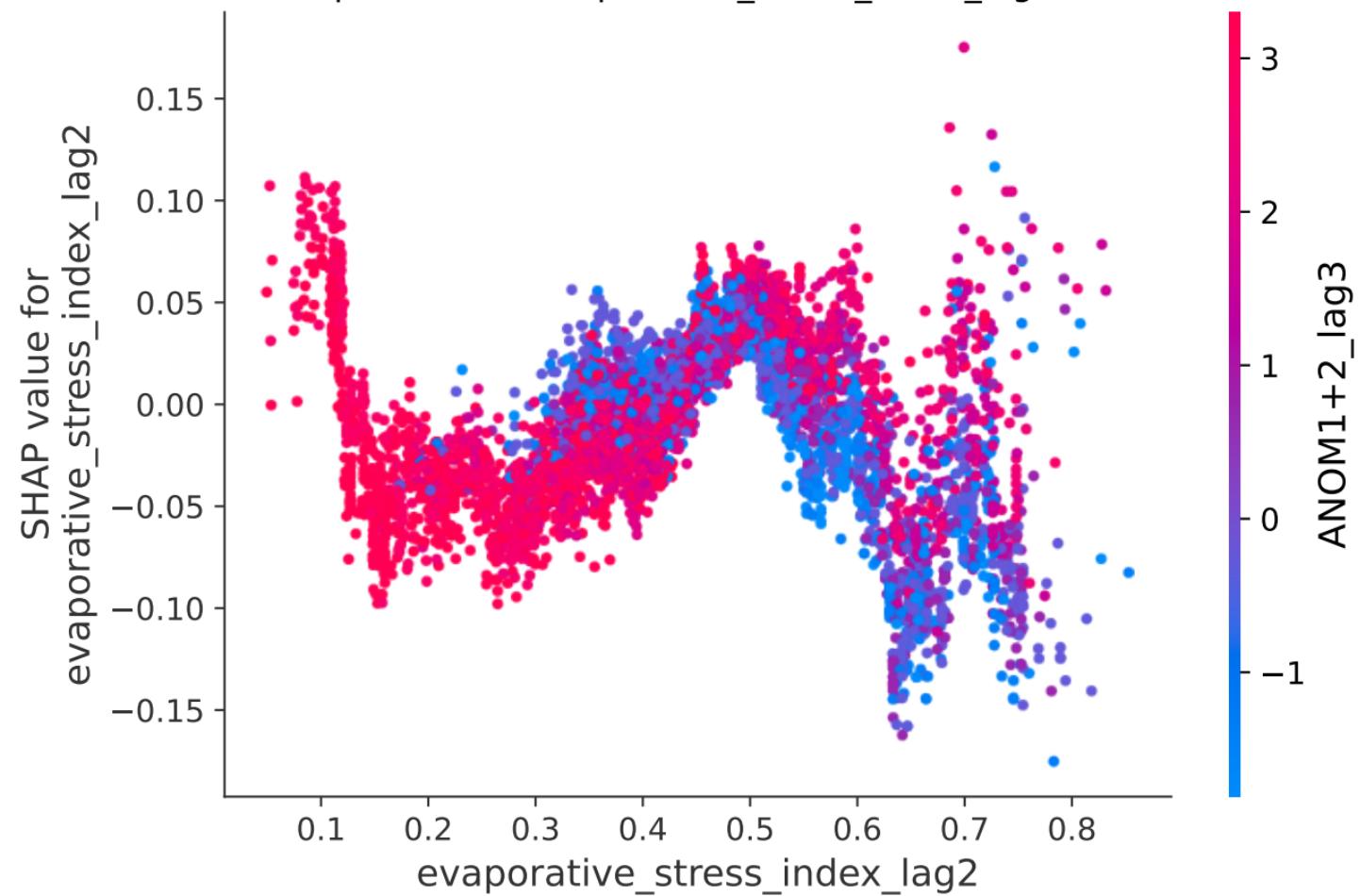
SHAP Dependence - total_evaporation_sum_lag3 - Class 3

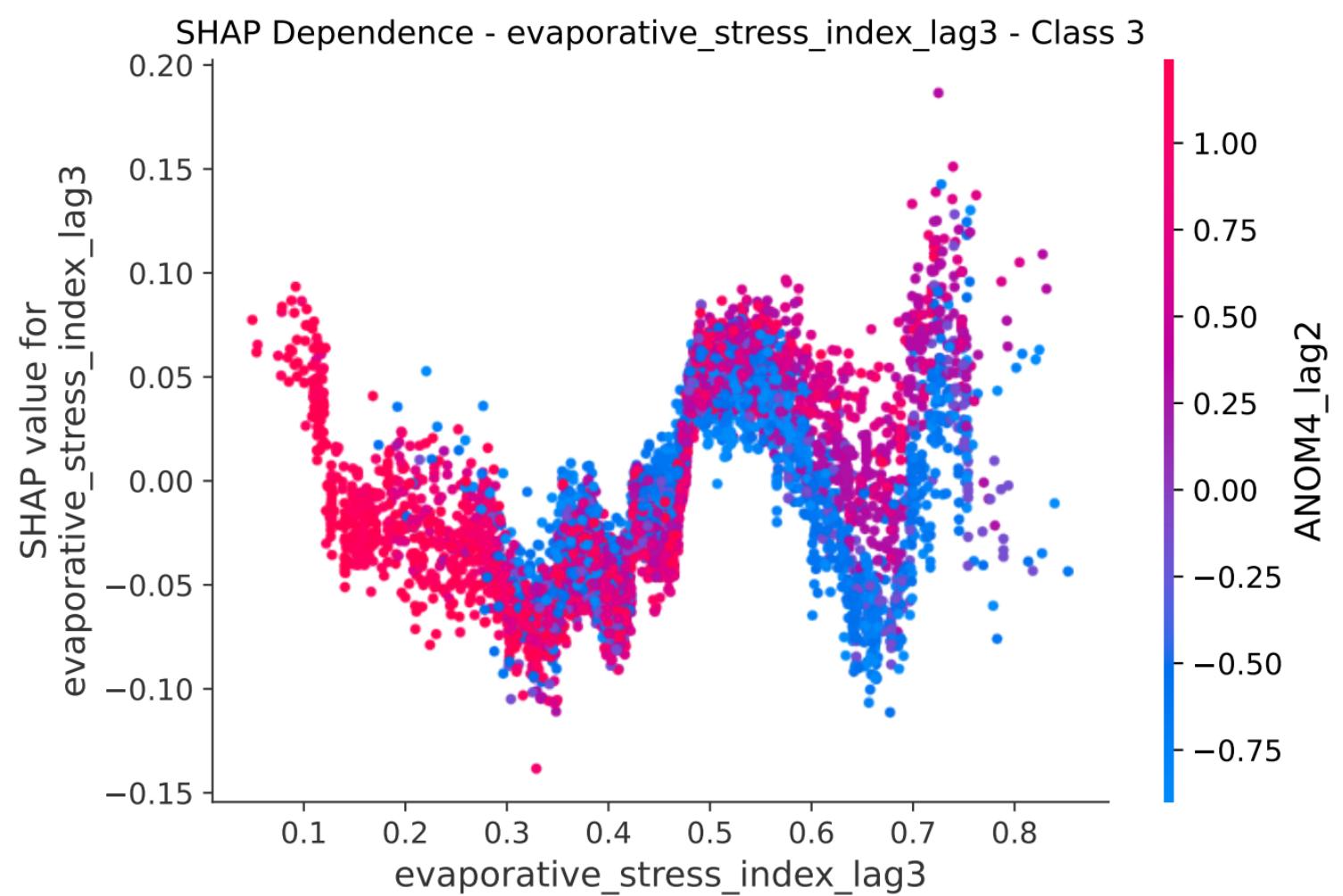


SHAP Dependence - evaporative_stress_index_lag1 - Class 3

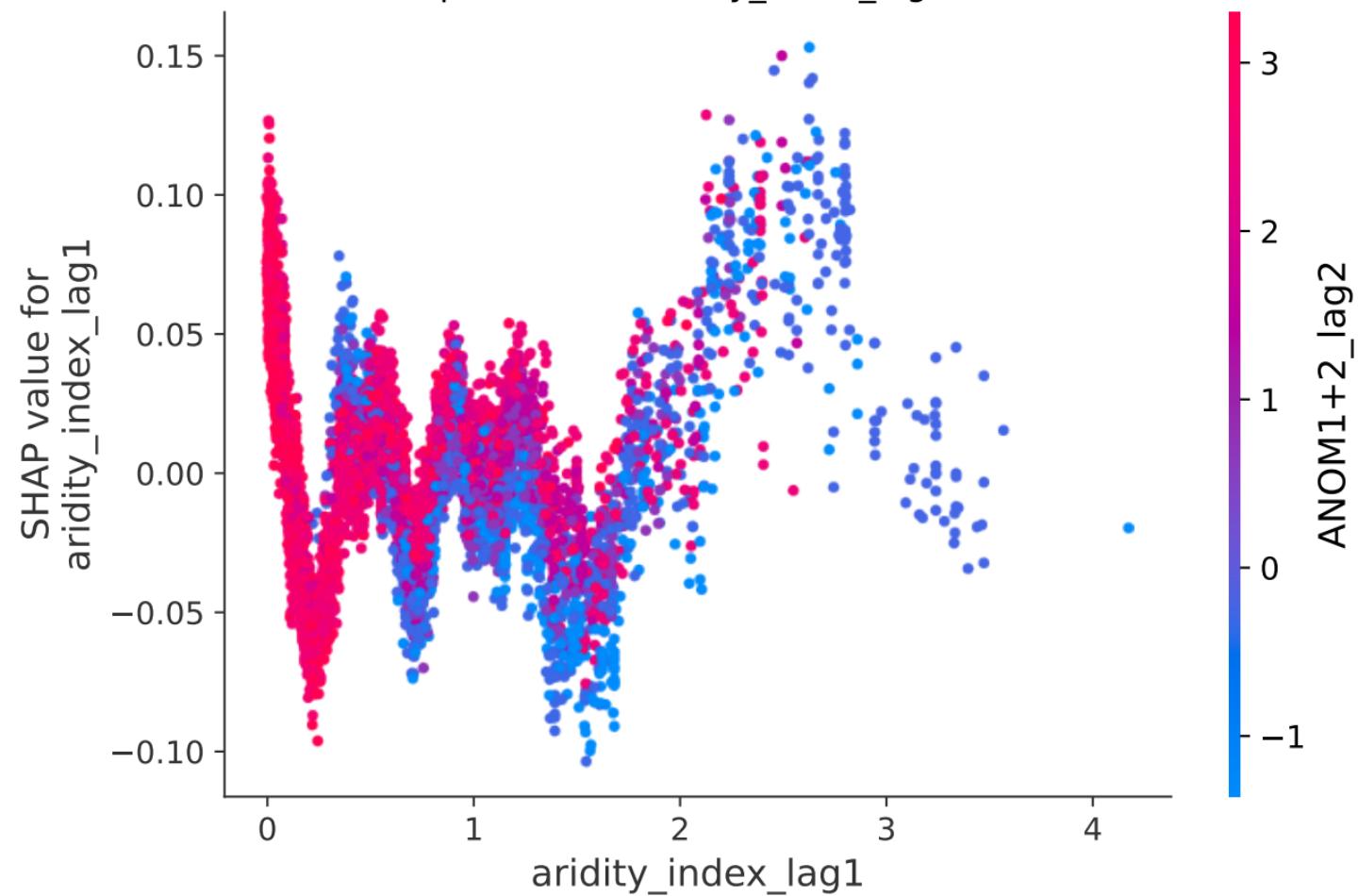


SHAP Dependence - evaporative_stress_index_lag2 - Class 3

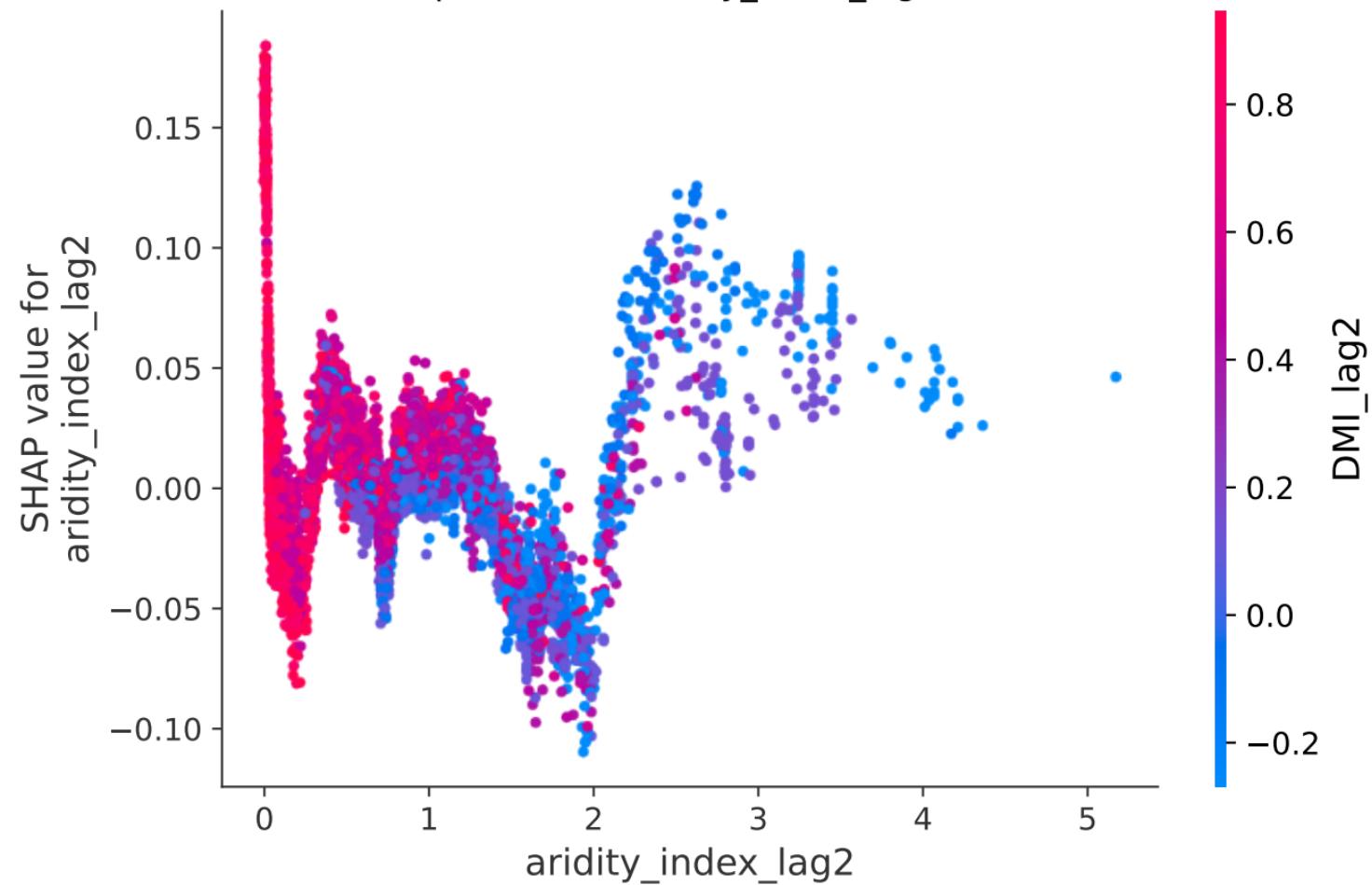




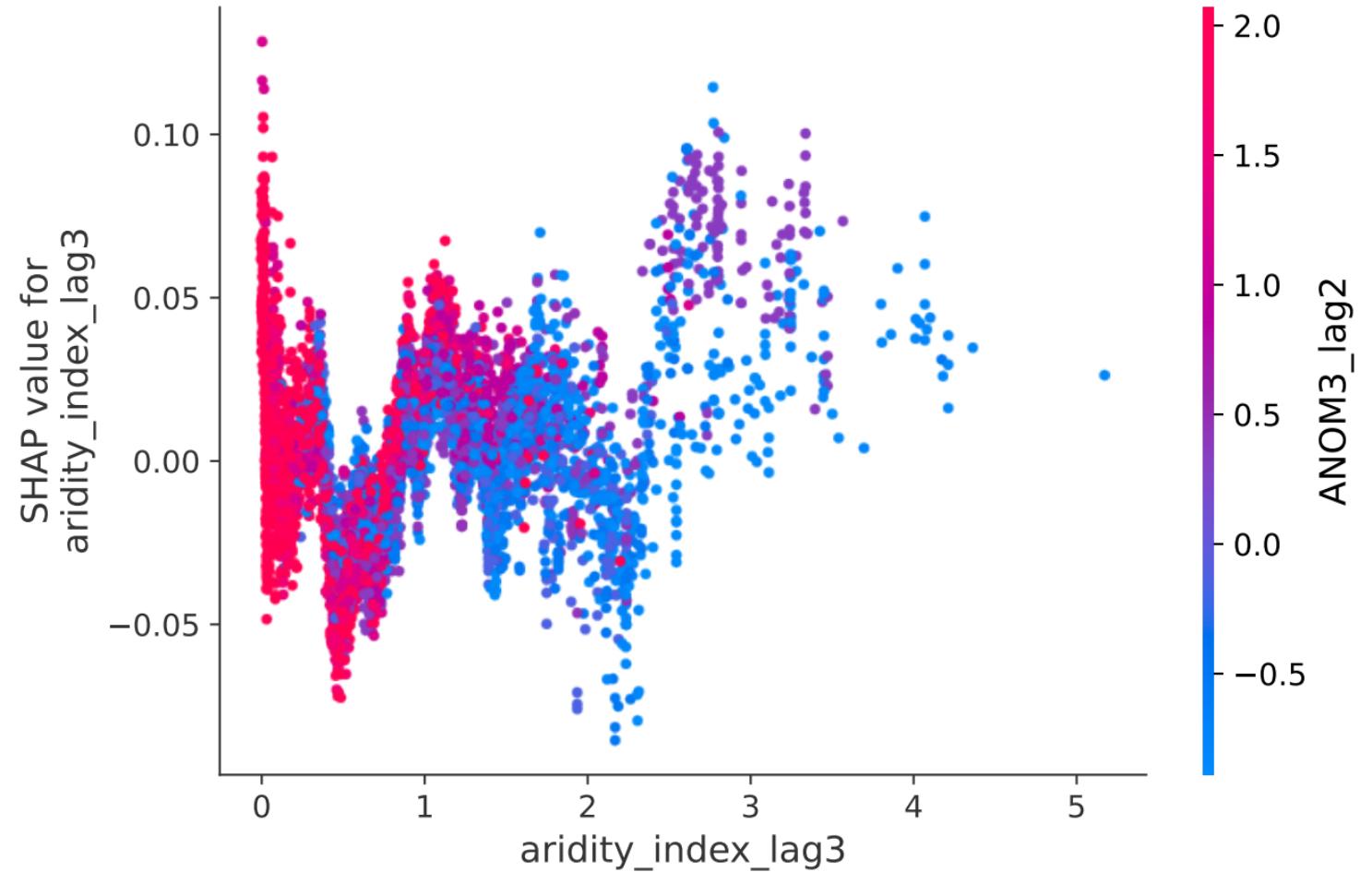
SHAP Dependence - aridity_index_lag1 - Class 3



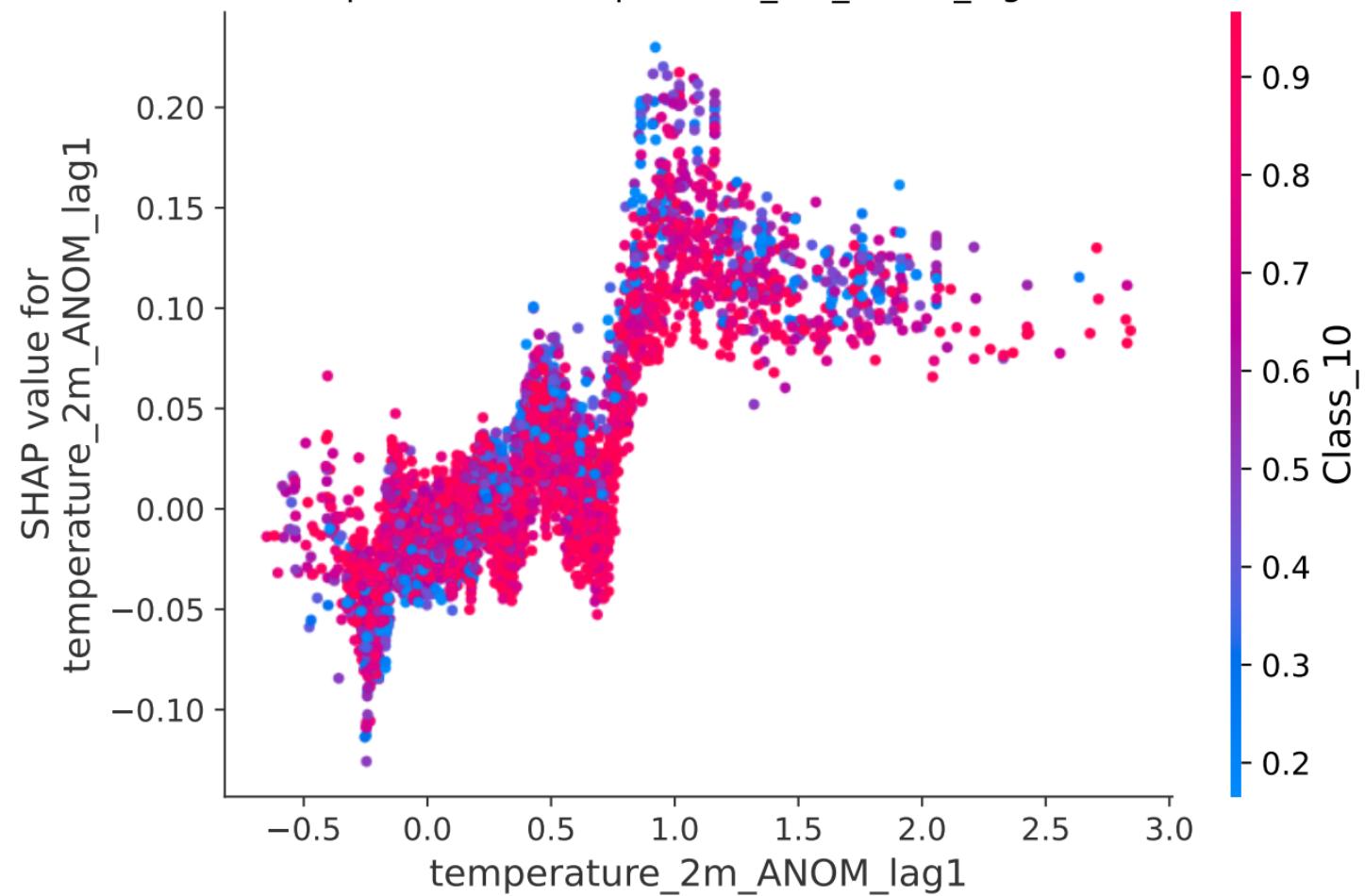
SHAP Dependence - aridity_index_lag2 - Class 3



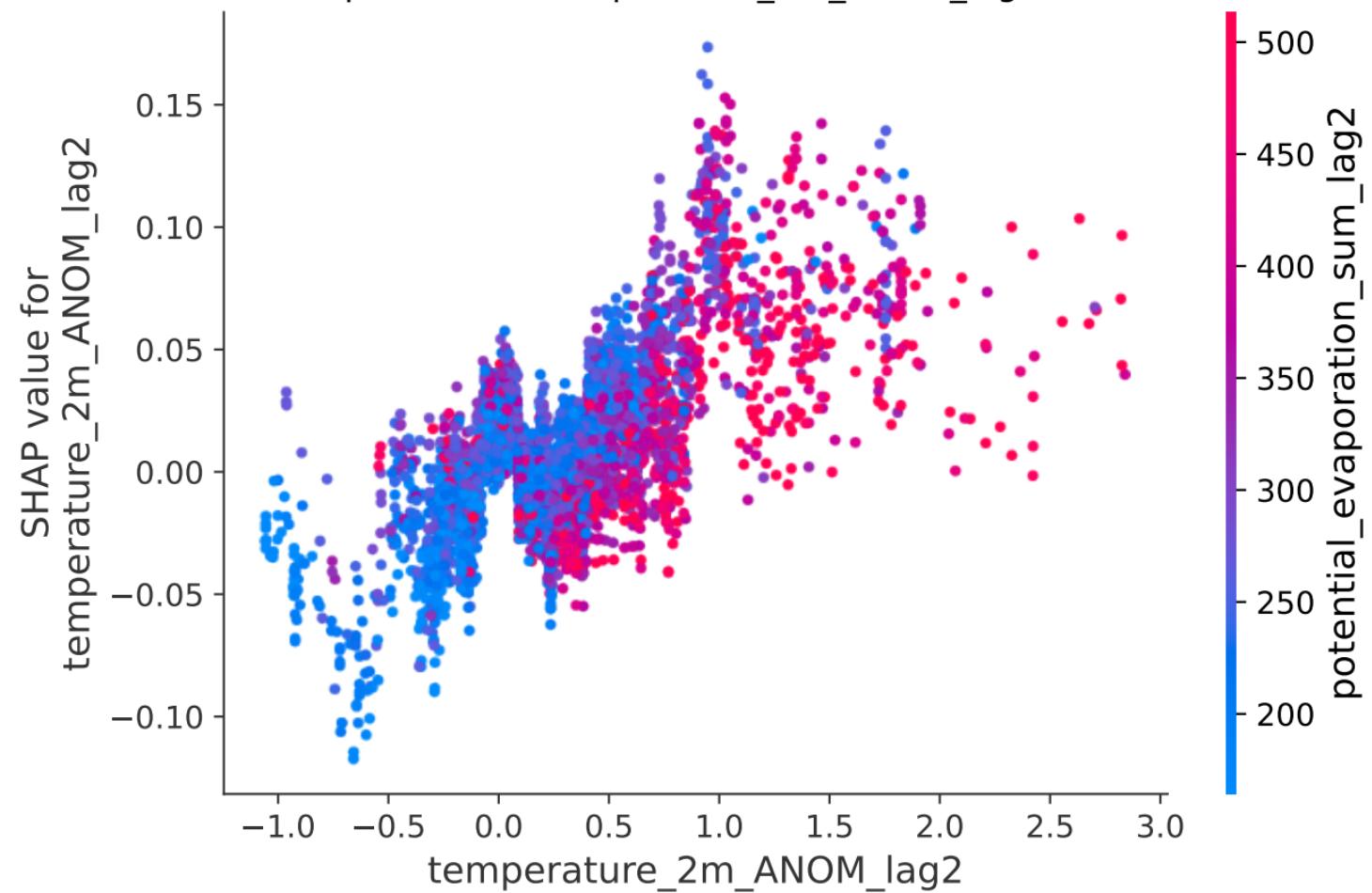
SHAP Dependence - aridity_index_lag3 - Class 3



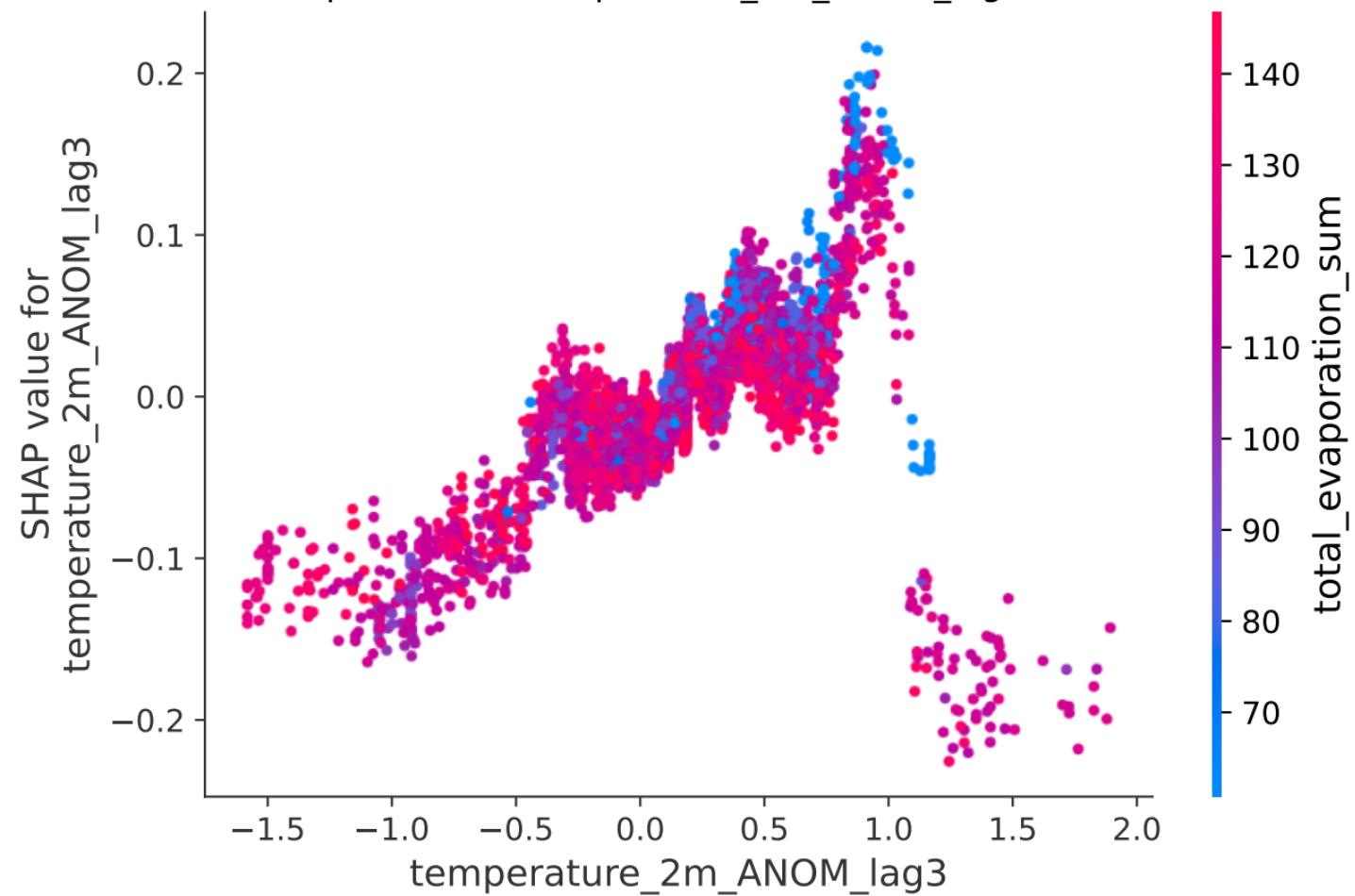
SHAP Dependence - temperature_2m_ANOM_lag1 - Class 3



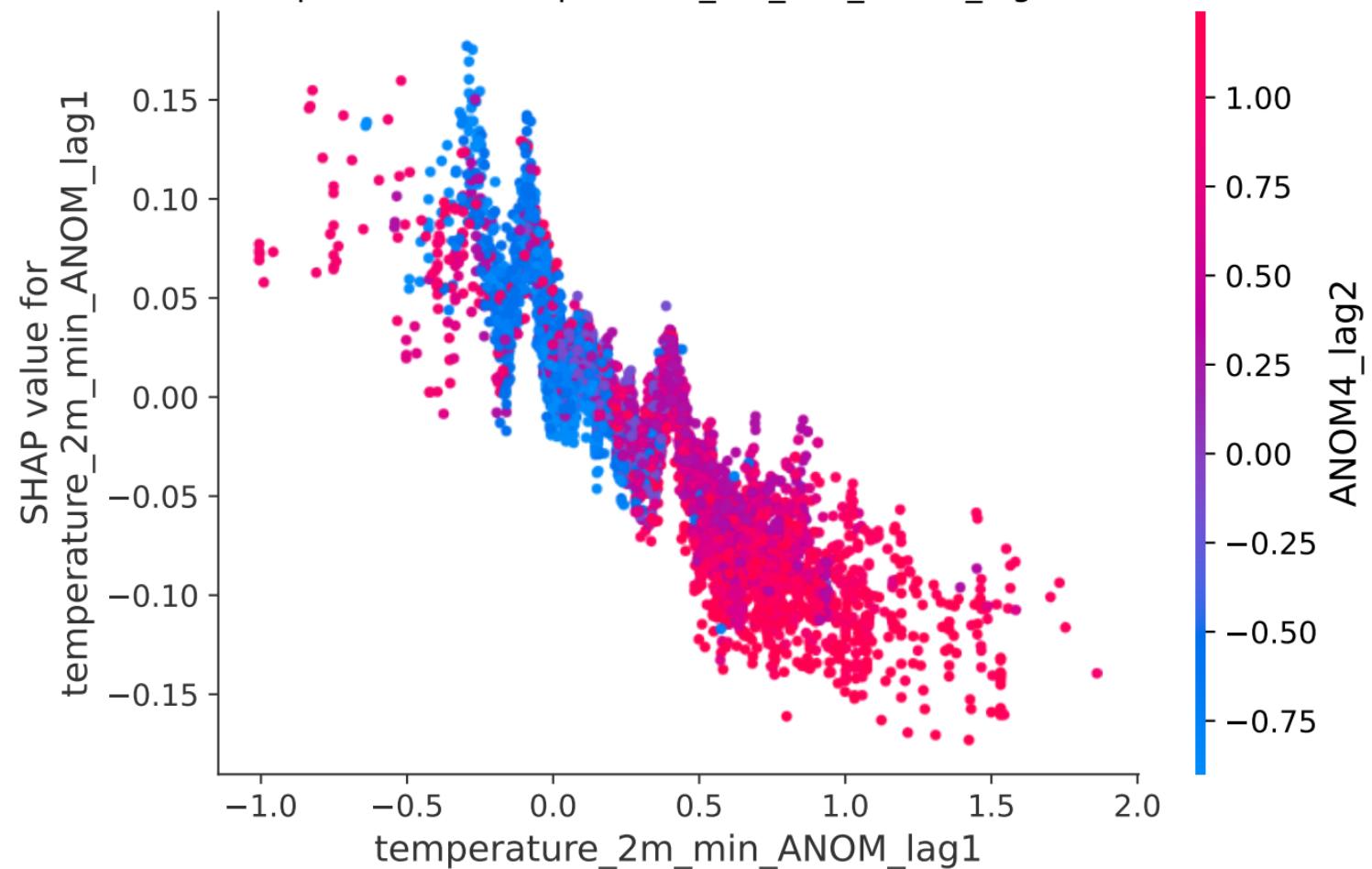
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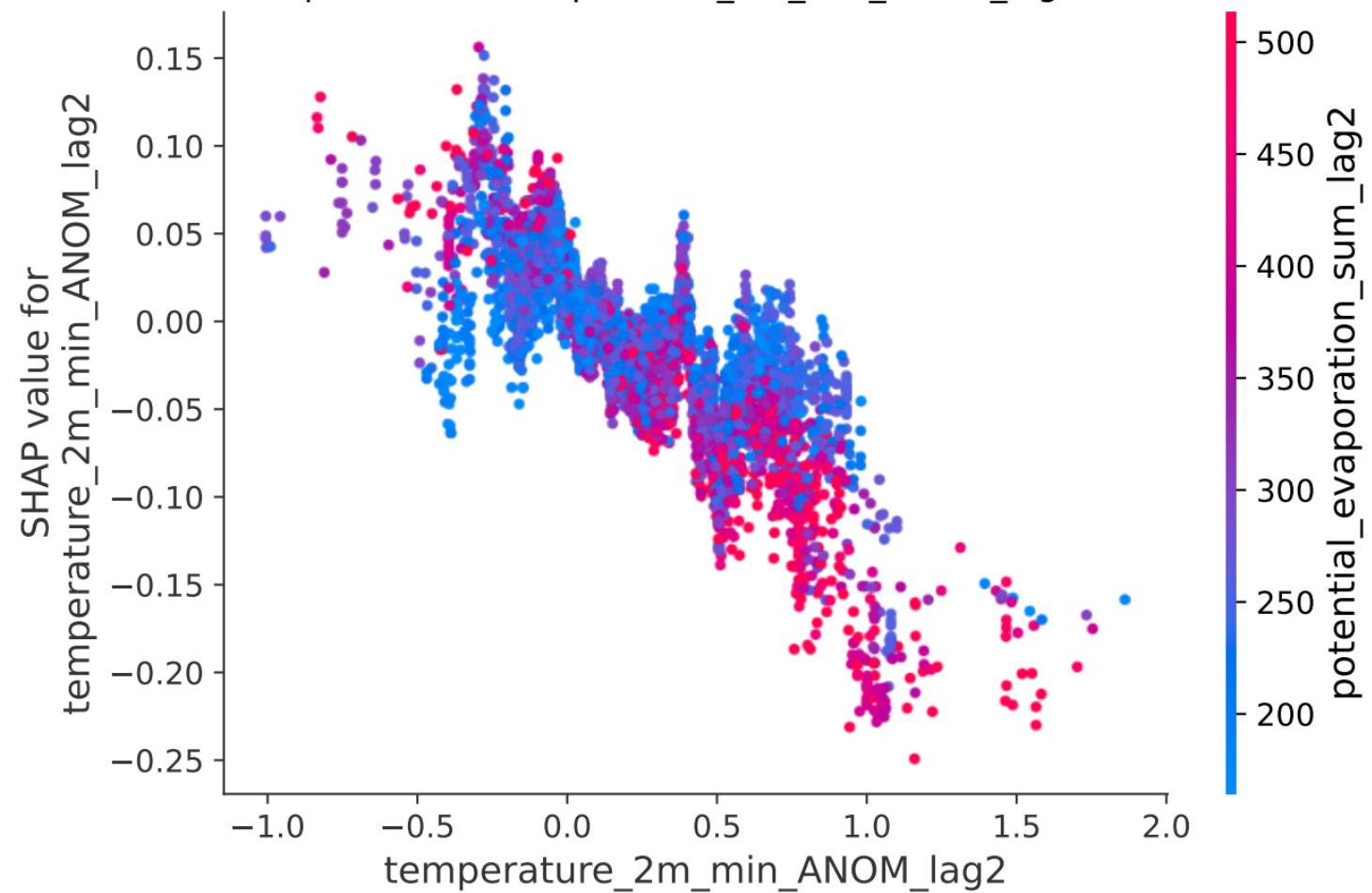
SHAP Dependence - temperature_2m_ANOM_lag3 - Class 3



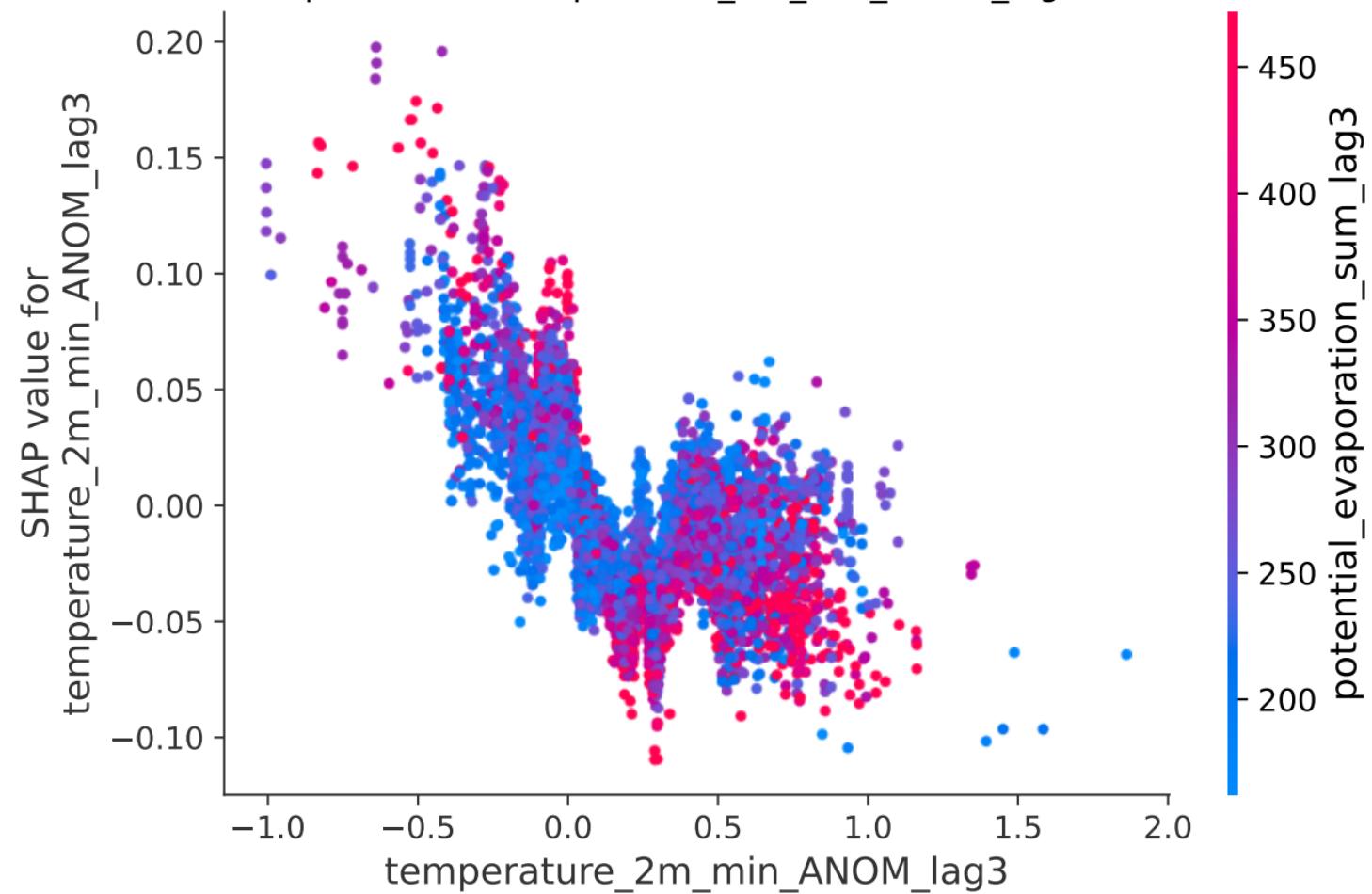
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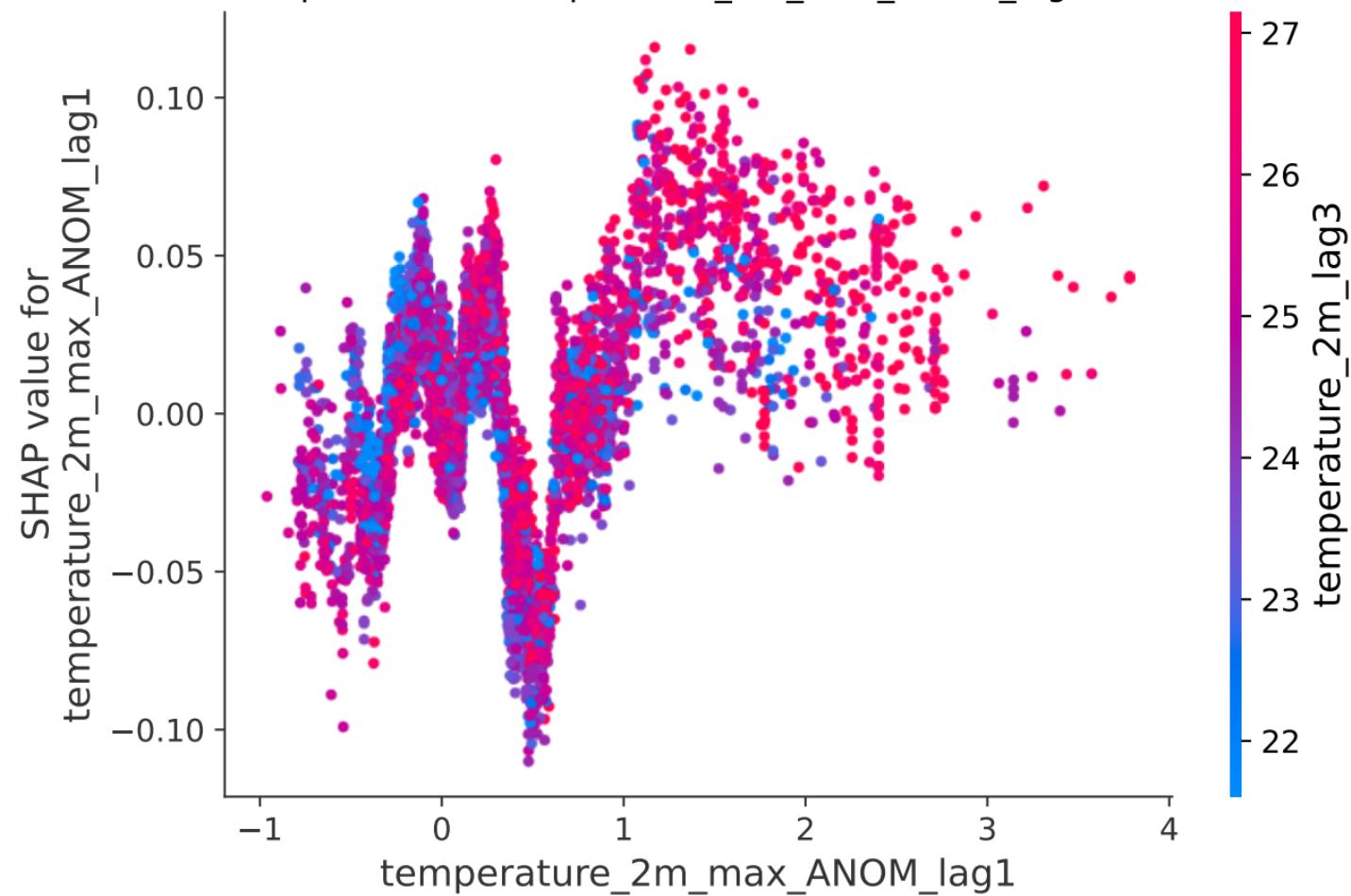
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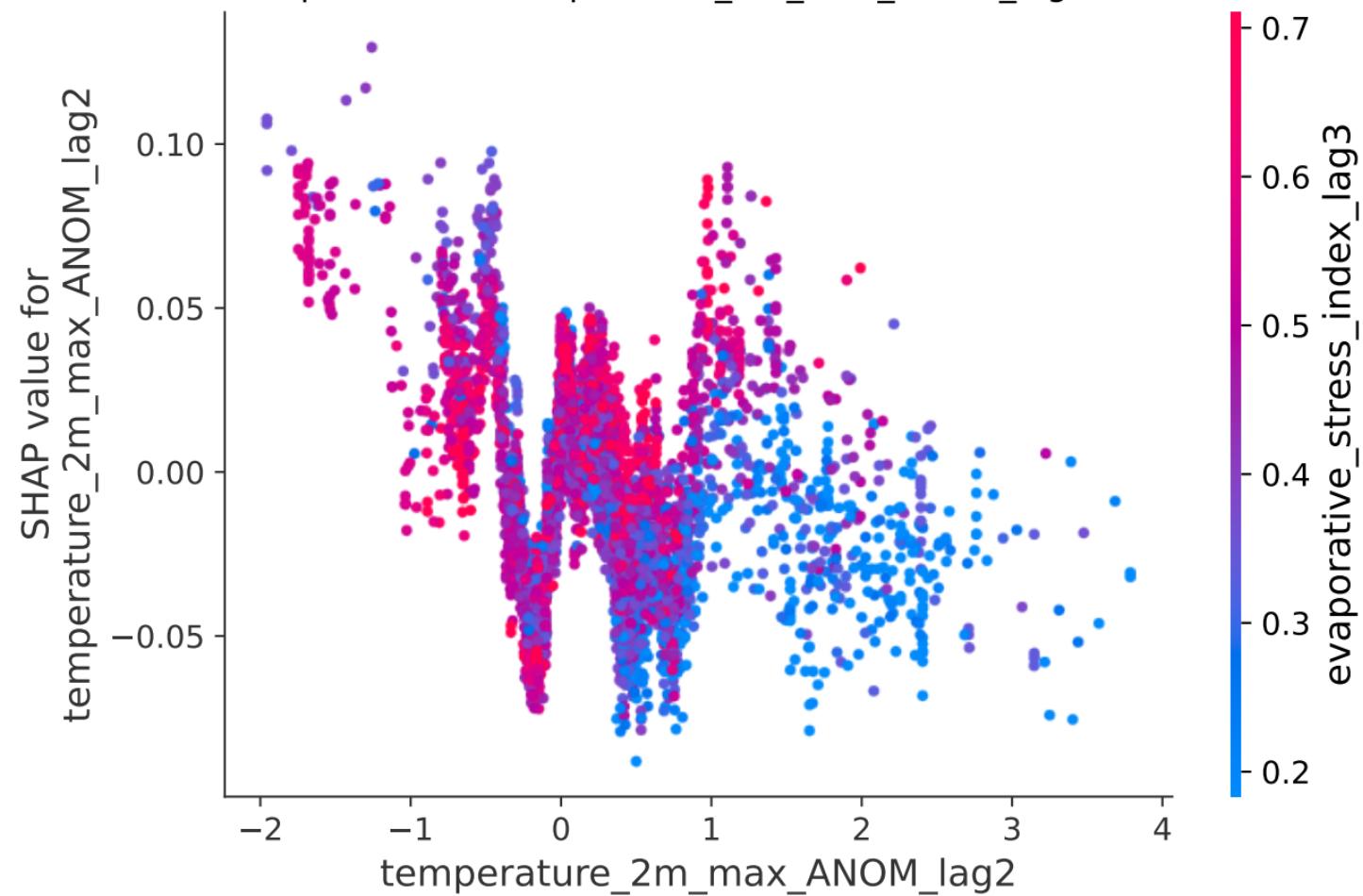
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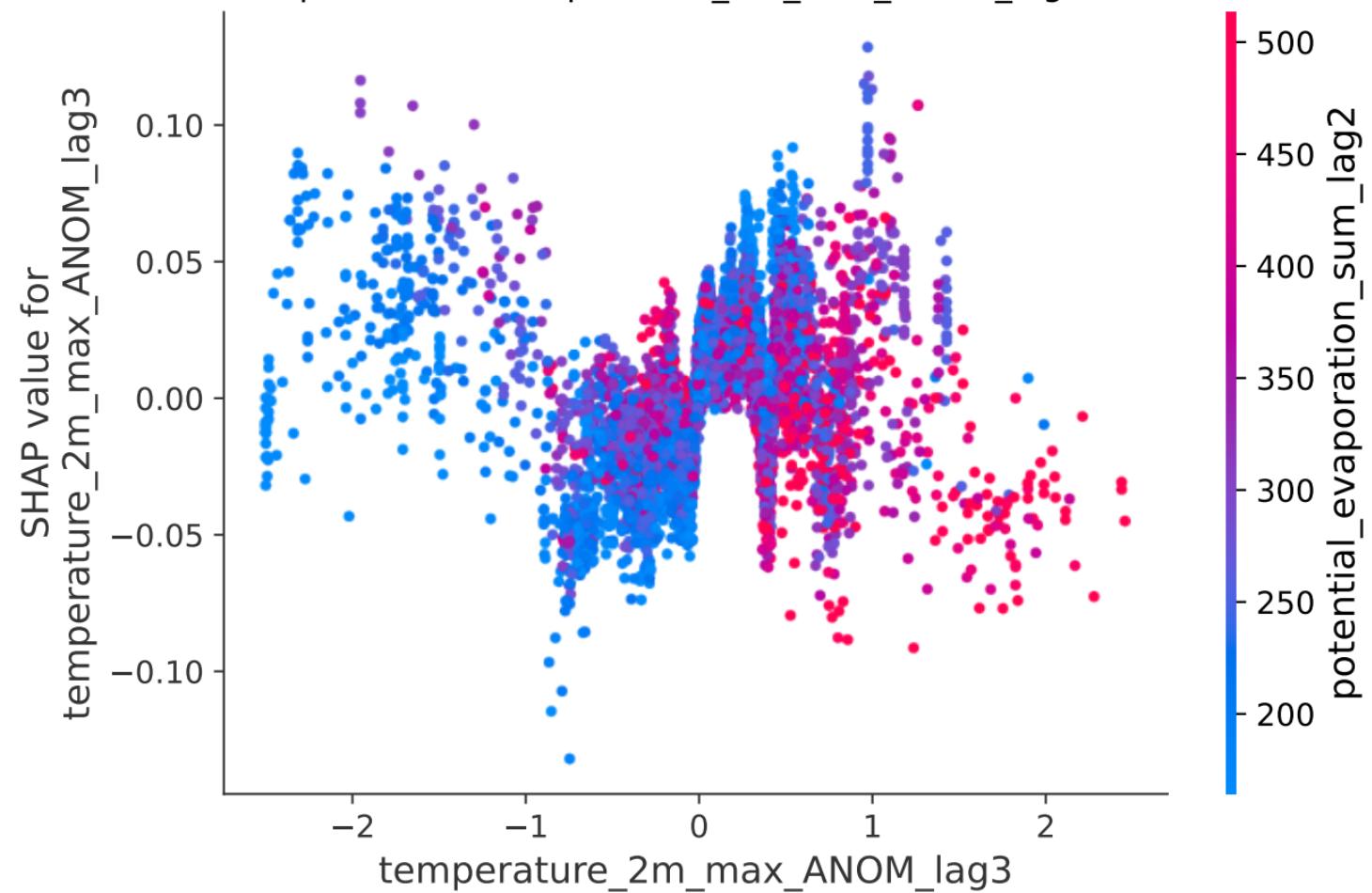
SHAP Dependence - temperature_2m_max_ANOM_lag1 - Class 3



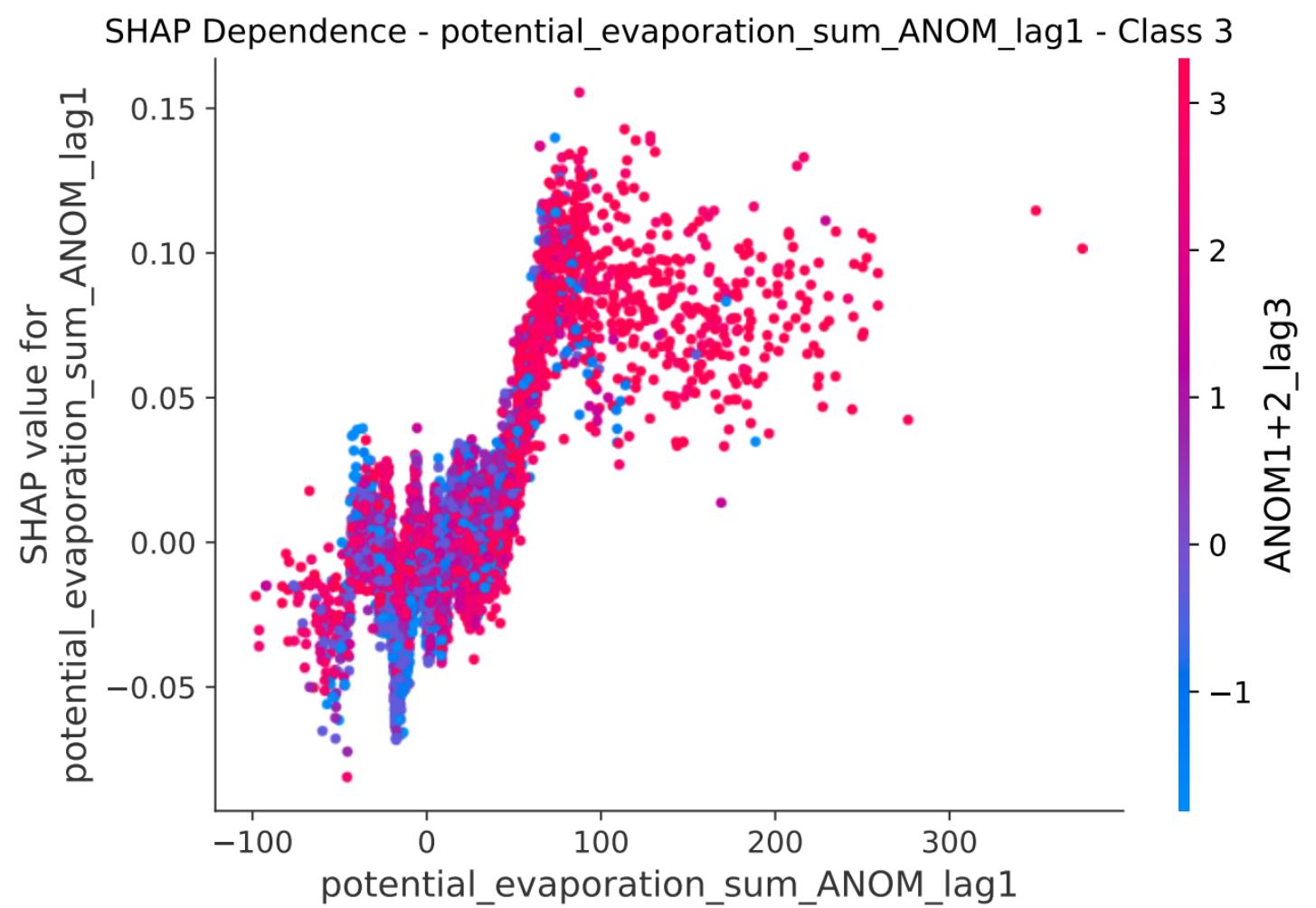
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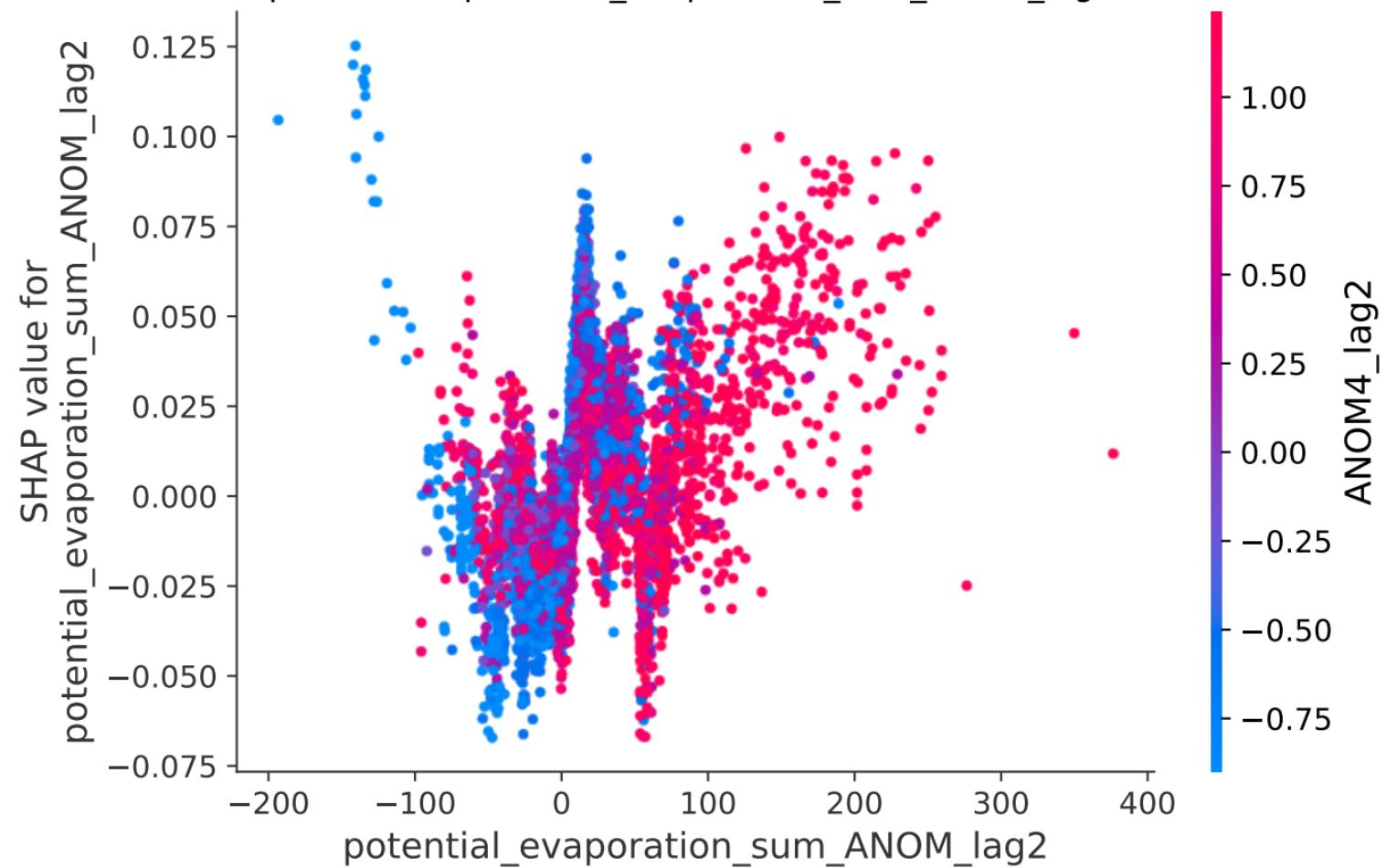
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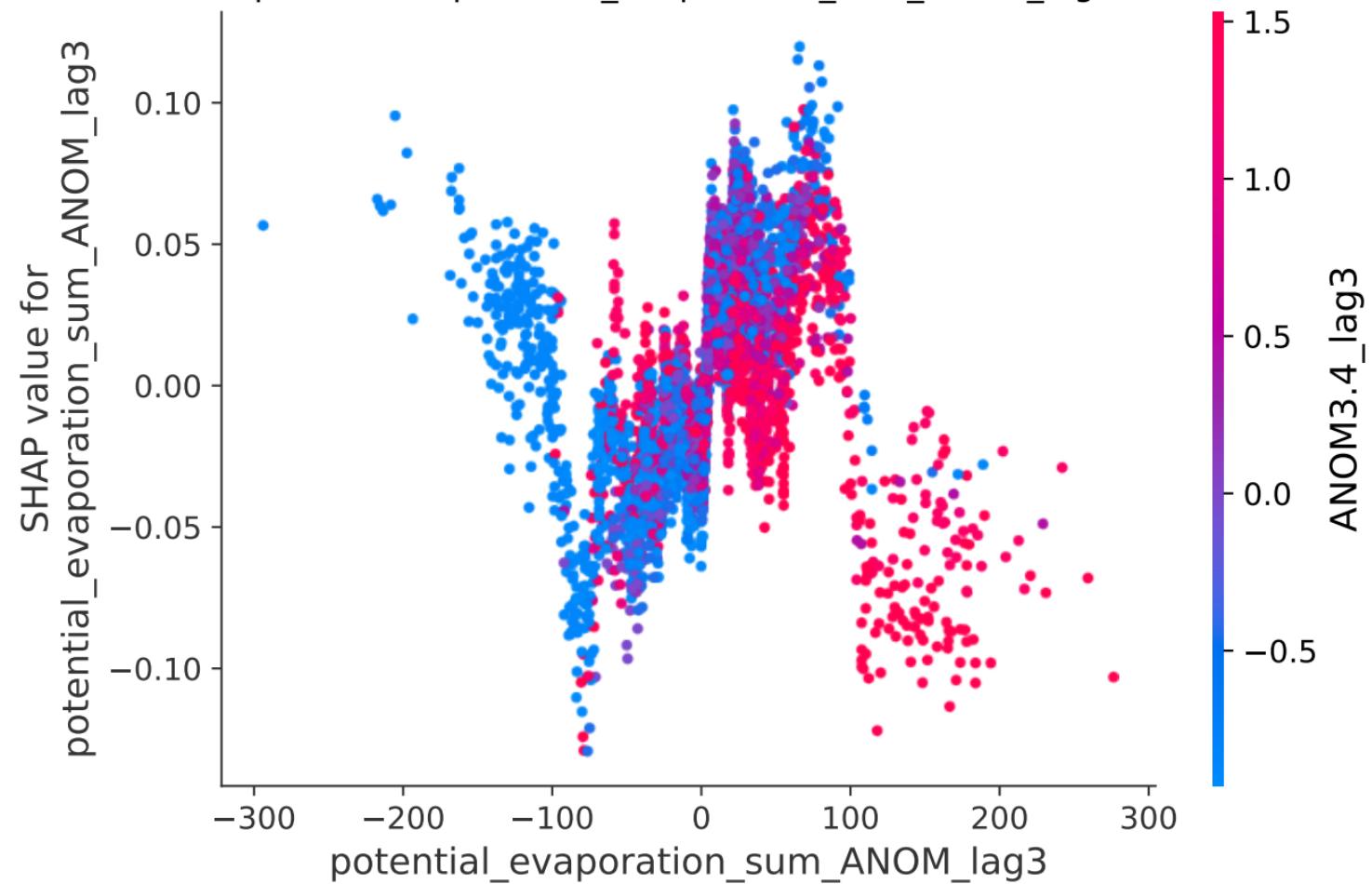
SHAP Dependence - potential_evaporation_sum_ANOM_lag1 - Class 3



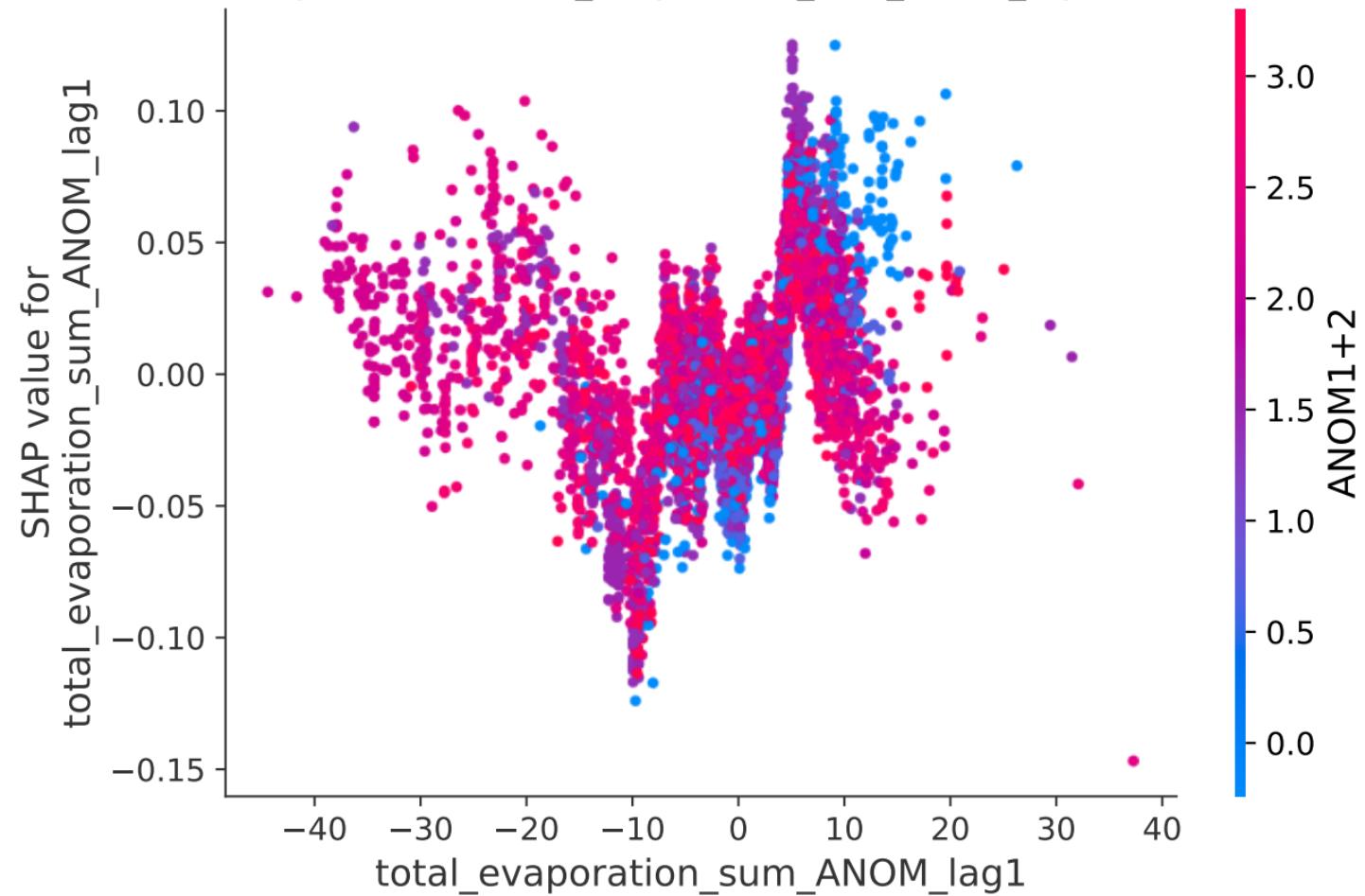
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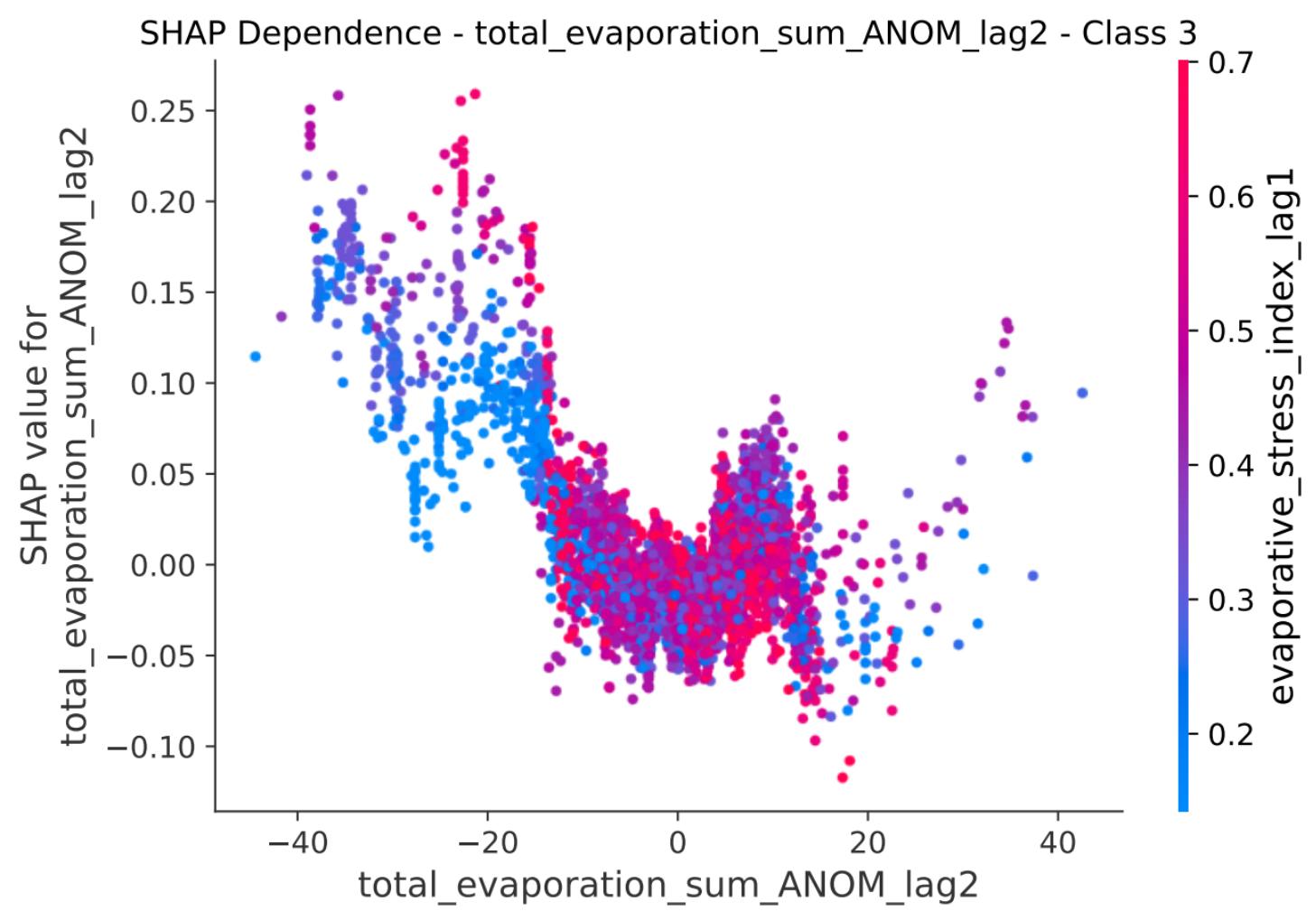


SHAP Dependence - potential_evaporation_sum_ANOM_lag3 - Class 3

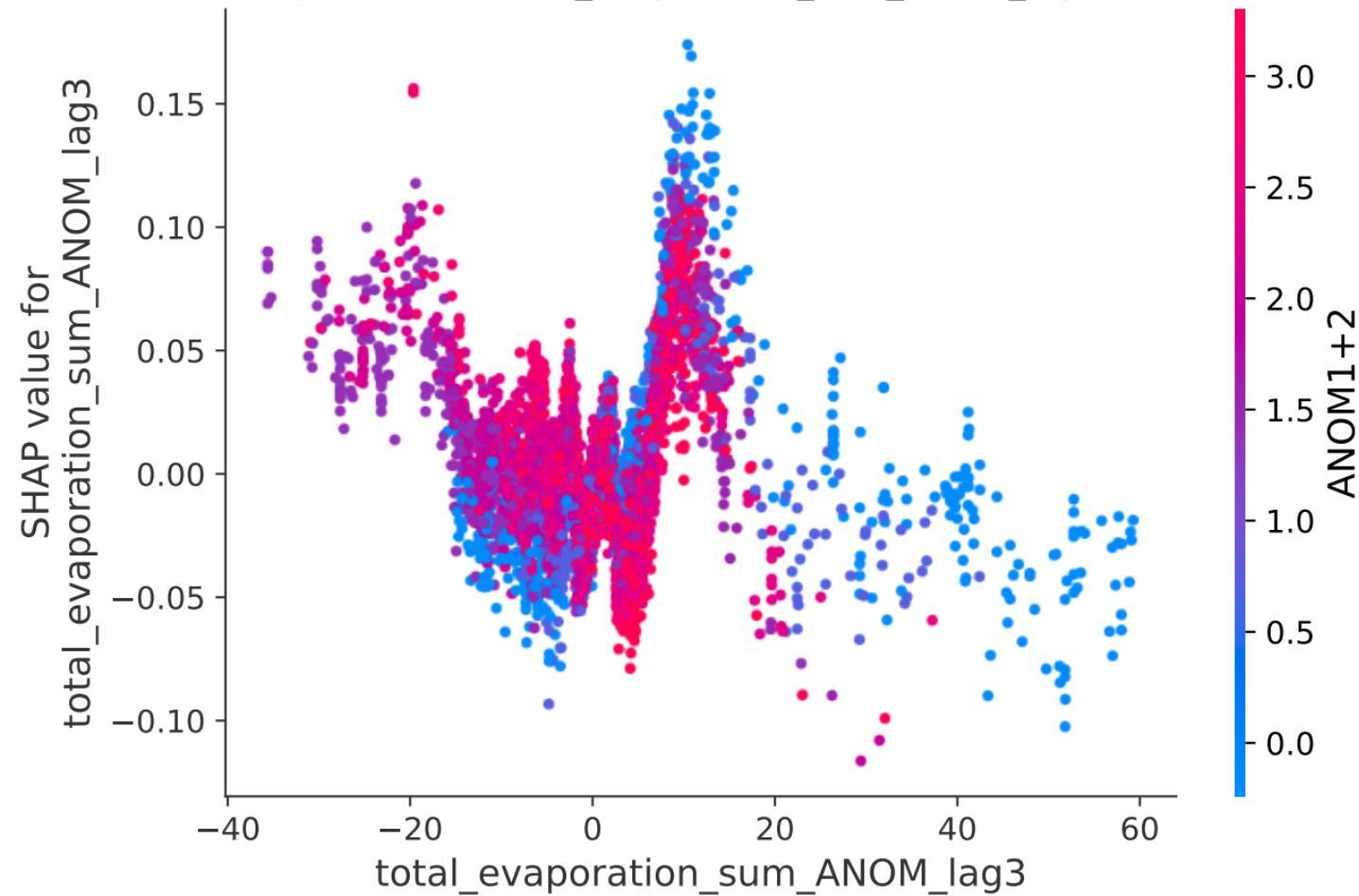


SHAP Dependence - total_evaporation_sum_ANOM_lag1 - Class 3



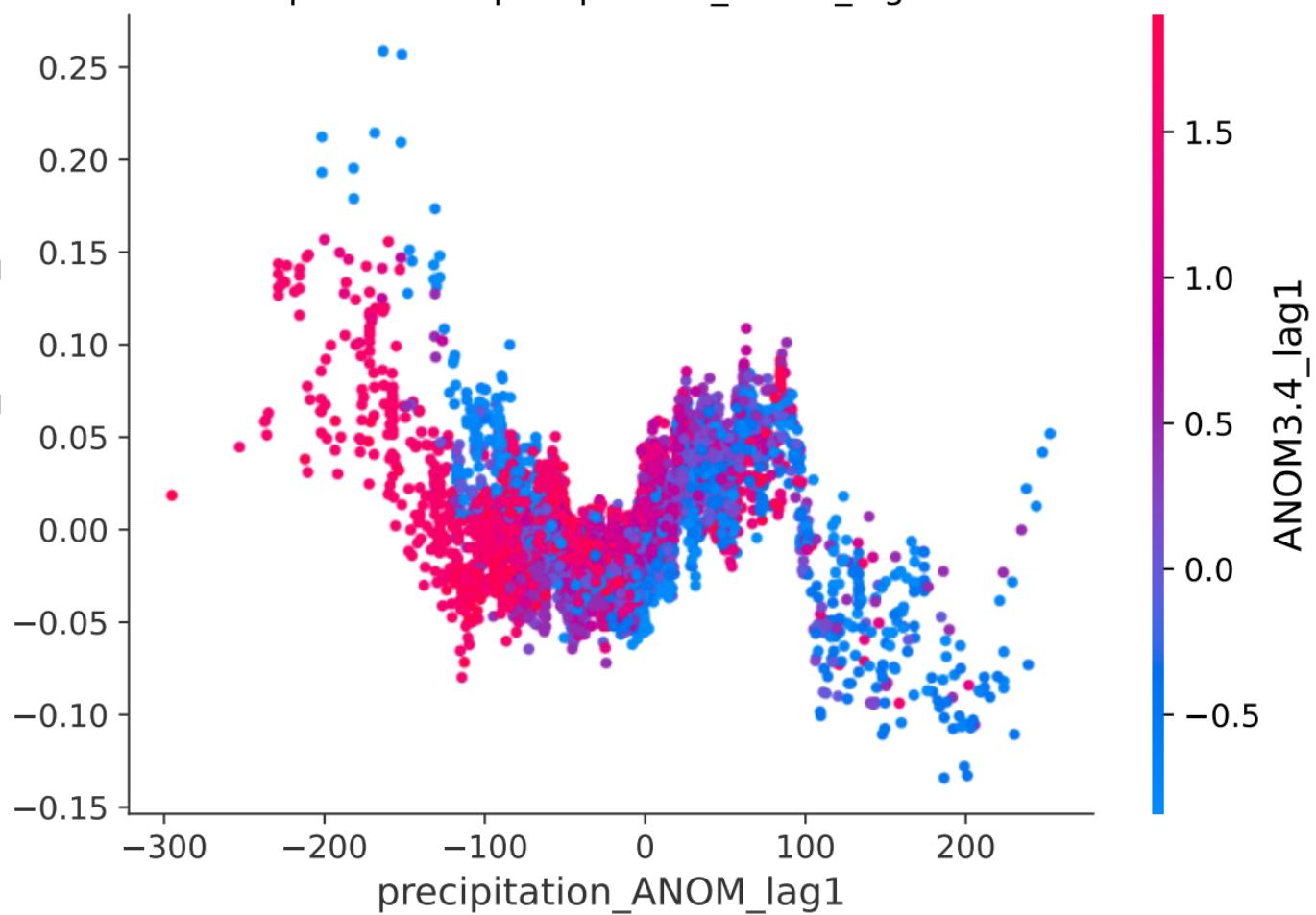


SHAP Dependence - total_evaporation_sum_ANOM_lag3 - Class 3



SHAP Dependence - precipitation_ANOM_lag1 - Class 3

SHAP value for
precipitation_ANOM_lag1



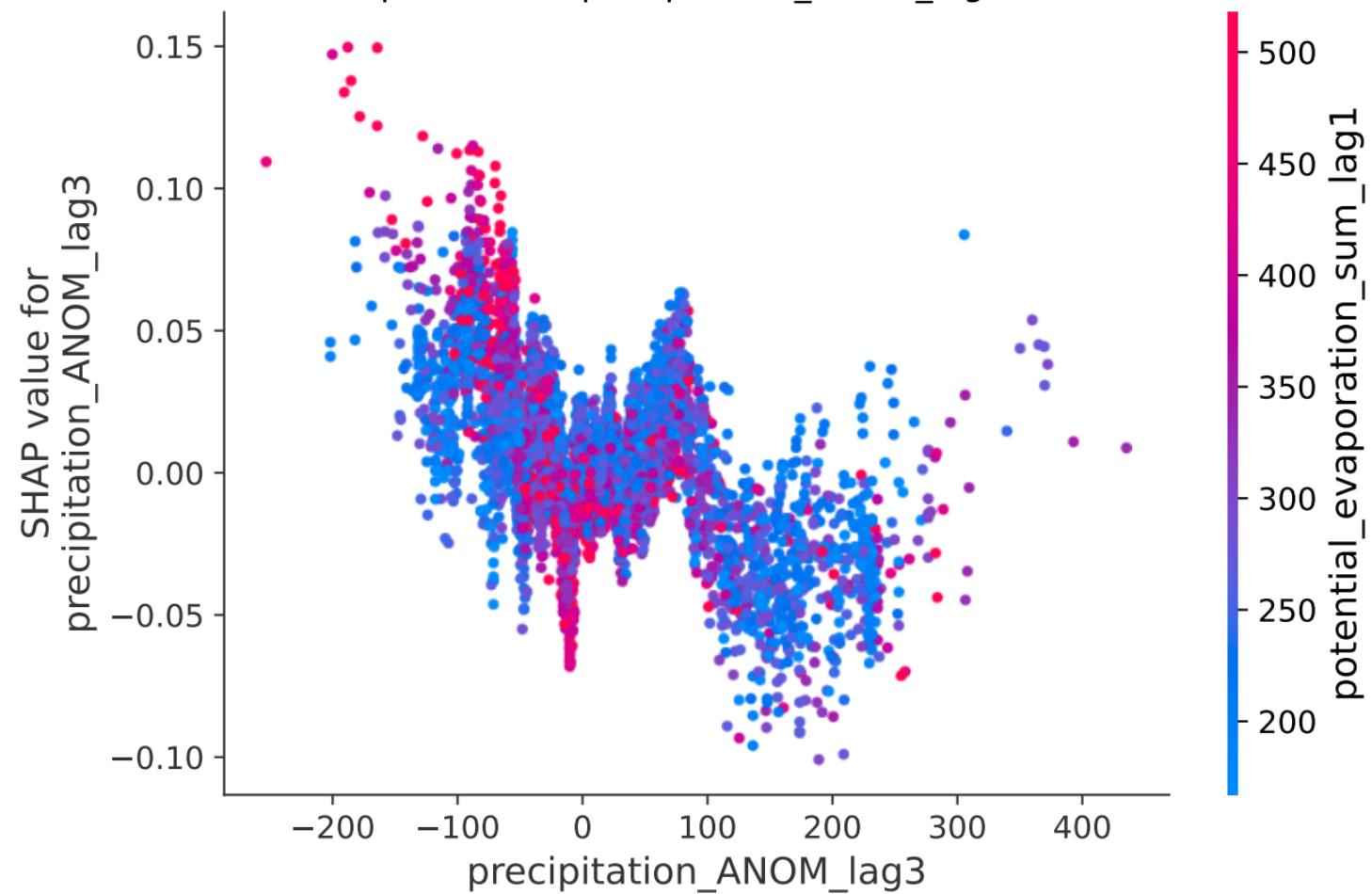
SHAP Dependence - precipitation_ANOM_lag2 - Class 3

SHAP value for
precipitation_ANOM_lag2



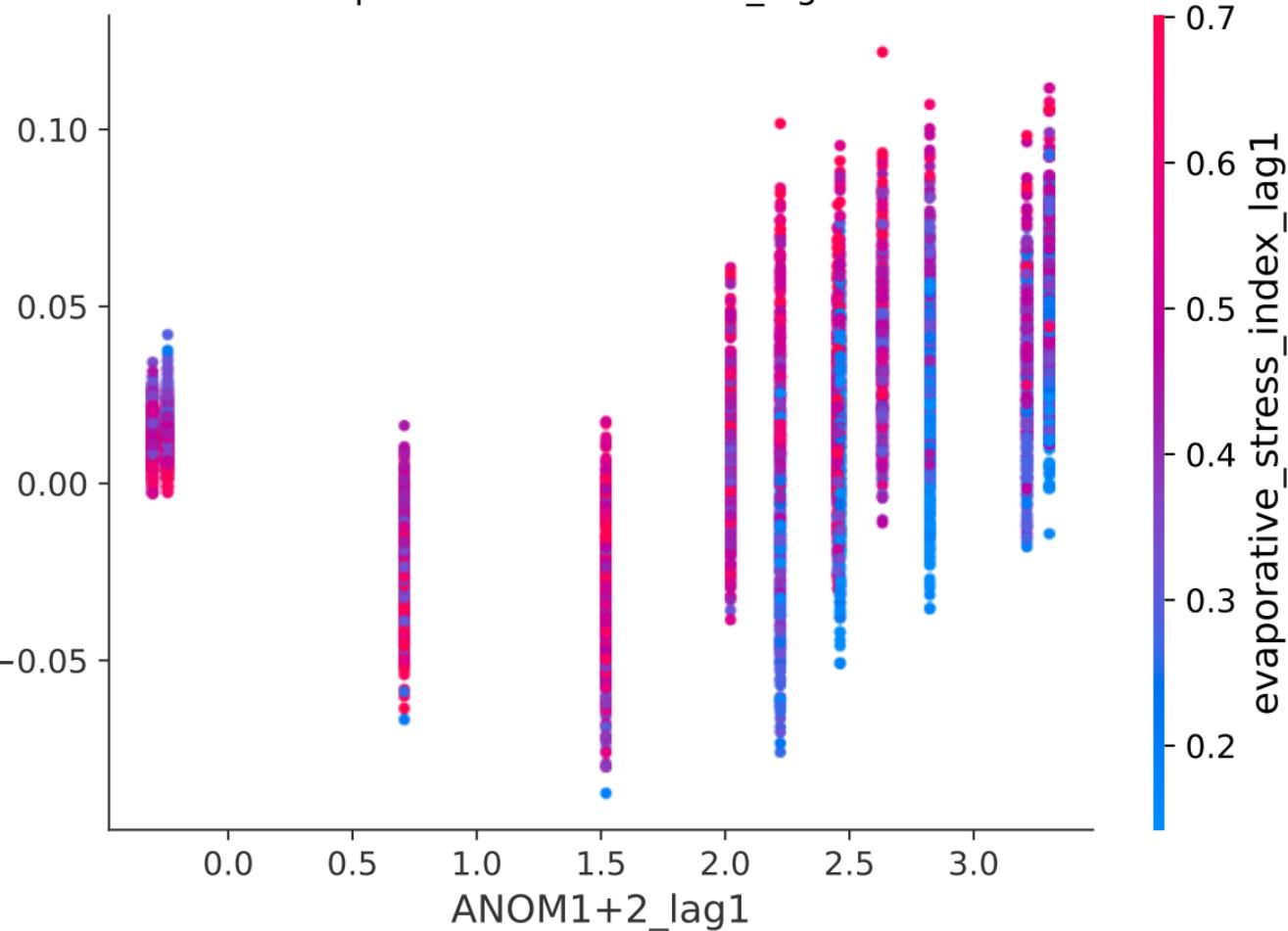
precipitation_ANOM_lag2

SHAP Dependence - precipitation_ANOM_lag3 - Class 3



SHAP Dependence - ANOM1+2_lag1 - Class 3

SHAP value for
ANOM1+2_lag1



SHAP Dependence - ANOM1+2_lag2 - Class 3

SHAP value for
ANOM1+2_lag2

0.05

0.00

-0.05

-0.10

-0.15

-1

0

1

2

3

ANOM1+2_lag2

0.7

0.6

0.5

0.4

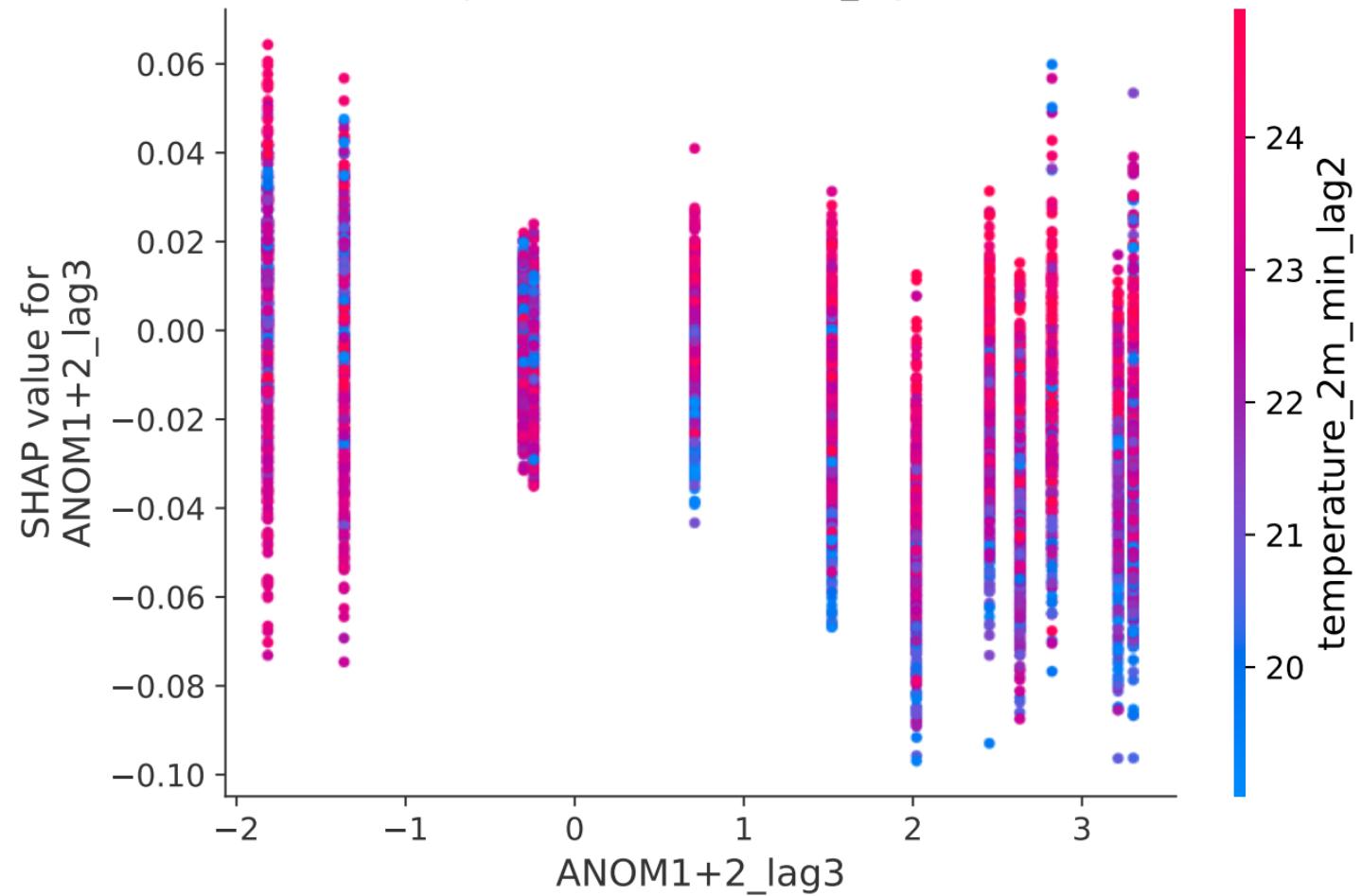
0.3

0.2

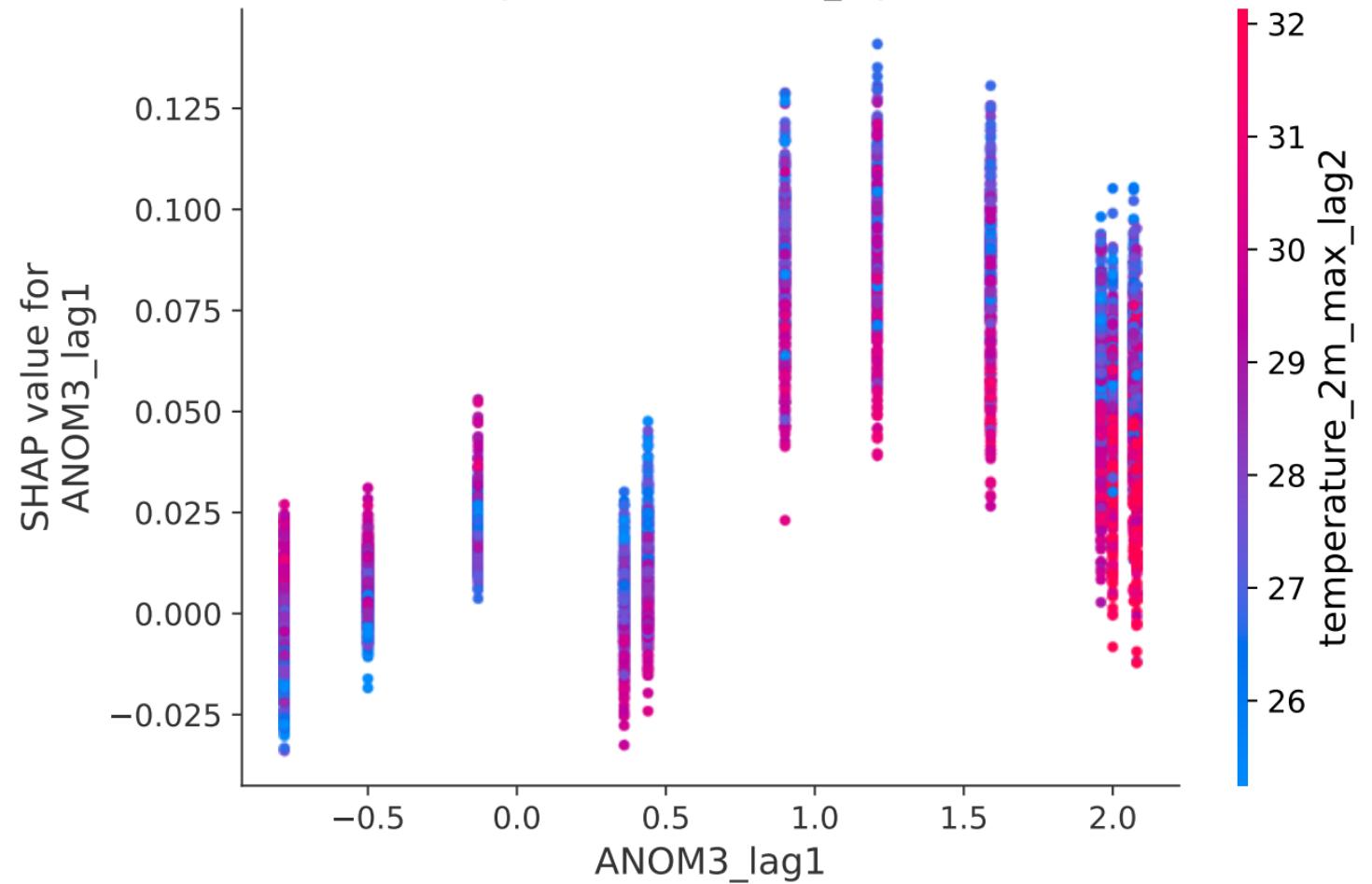
evaporative_stress_index_lag1



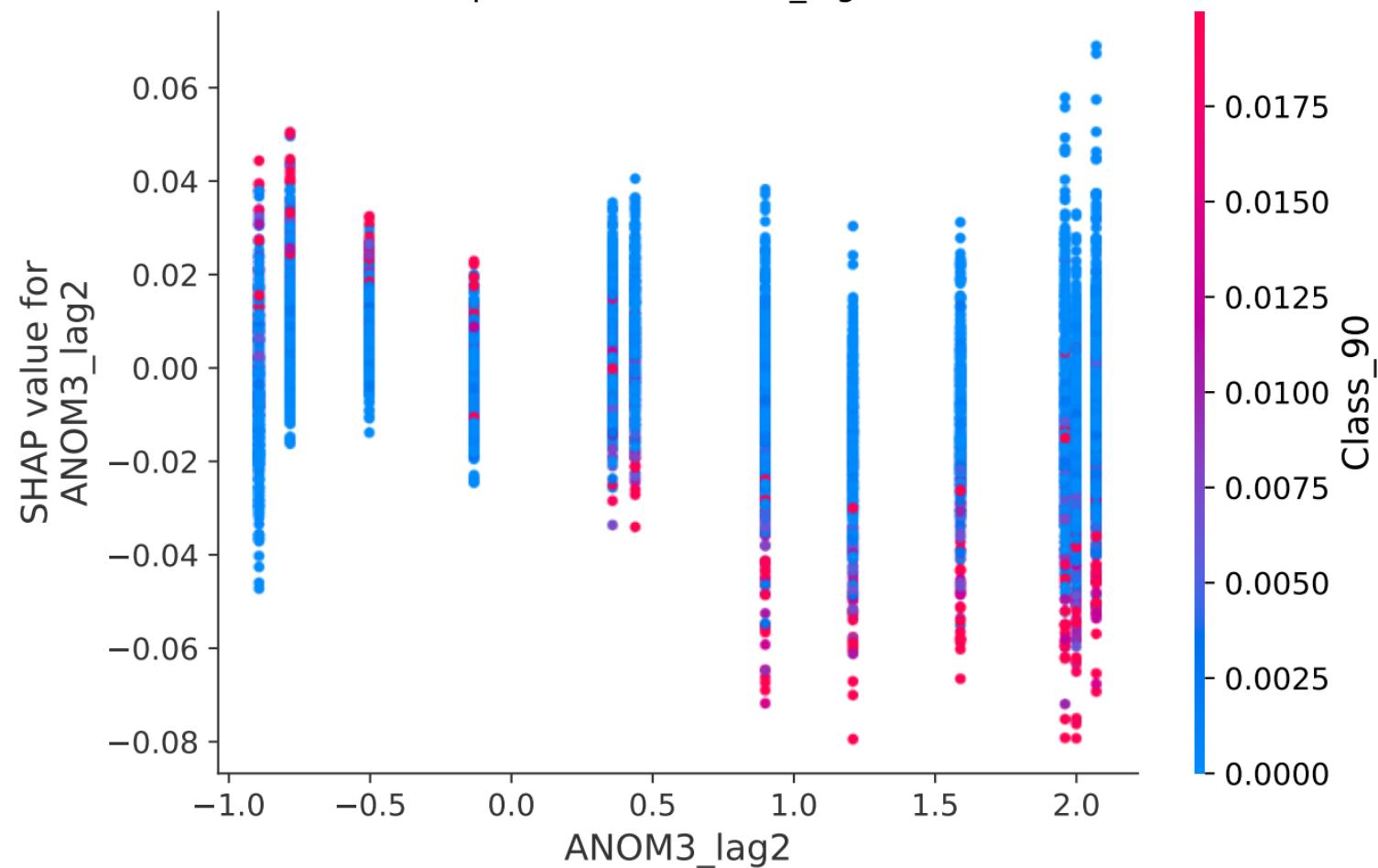
SHAP Dependence - ANOM1+2_lag3 - Class 3



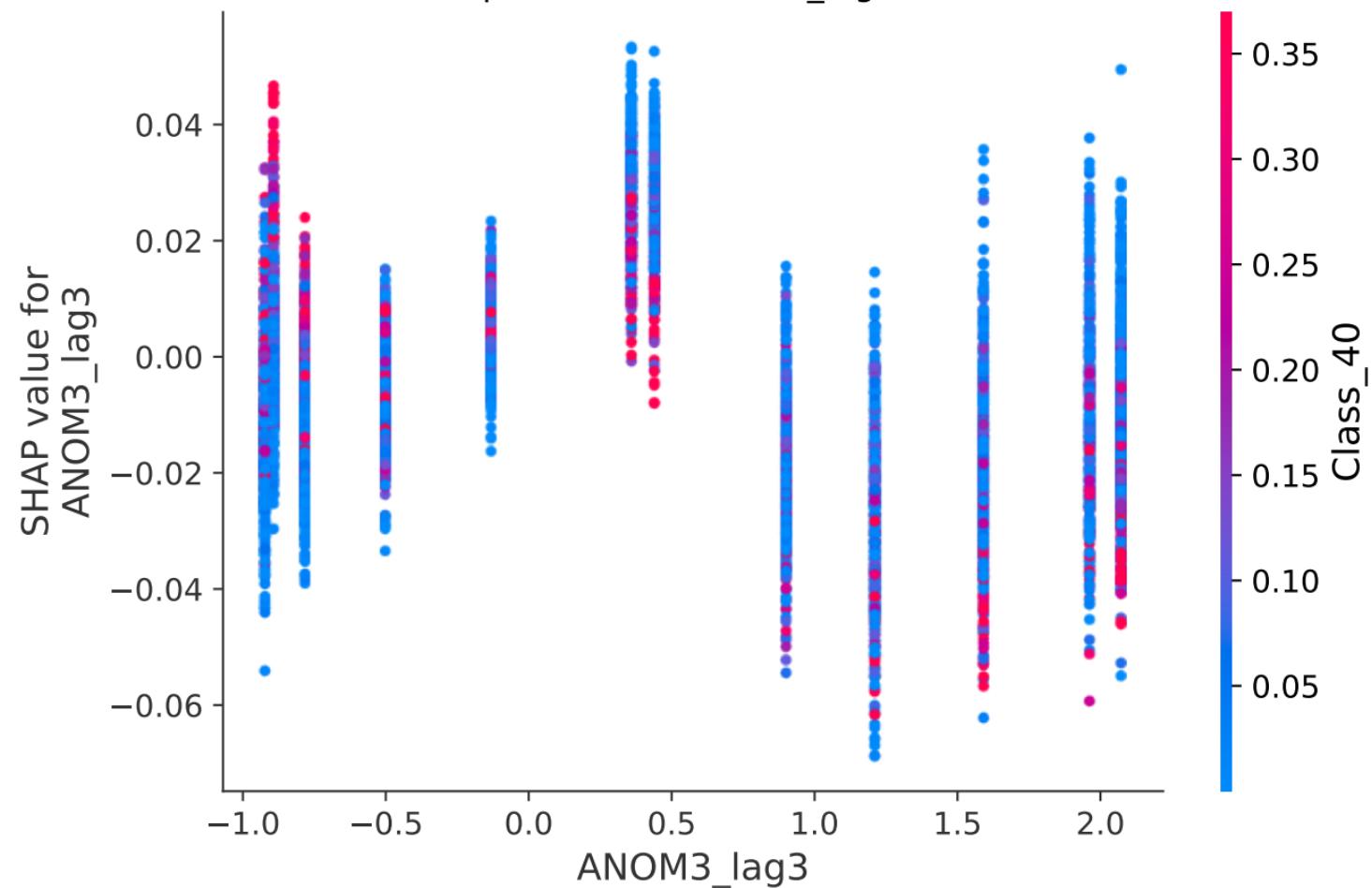
SHAP Dependence - ANOM3_lag1 - Class 3



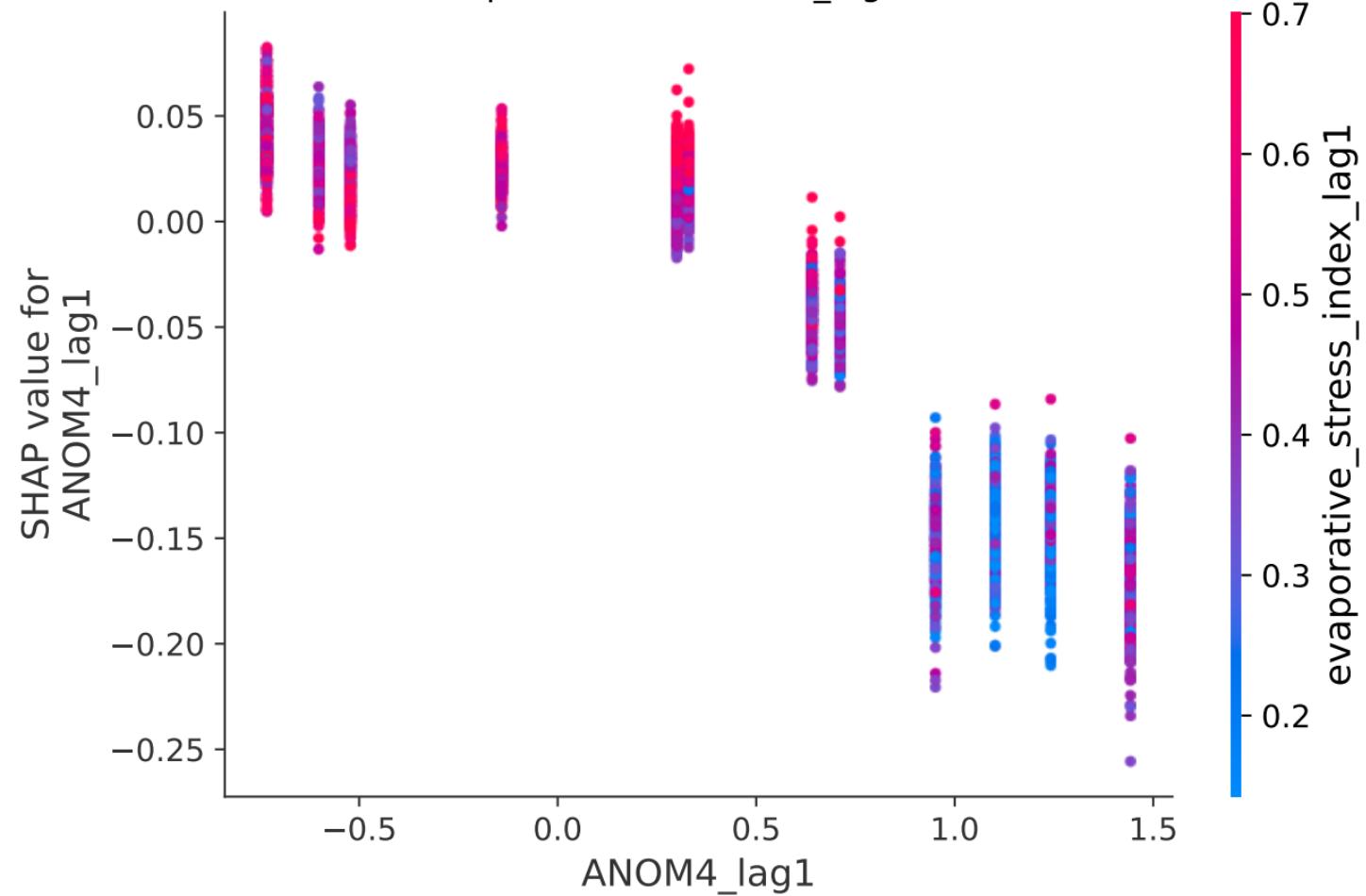
SHAP Dependence - ANOM3_lag2 - Class 3



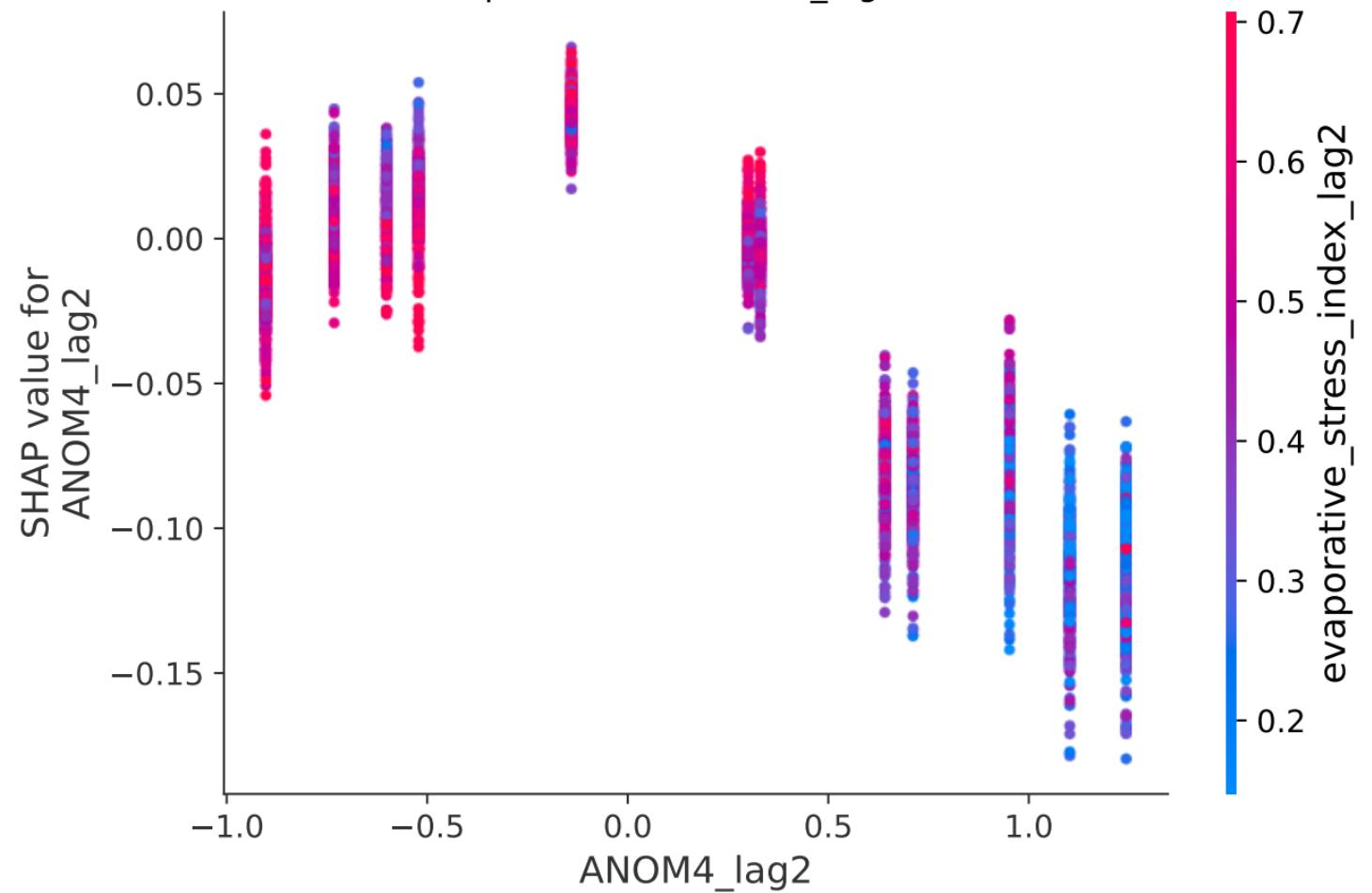
SHAP Dependence - ANOM3_lag3 - Class 3



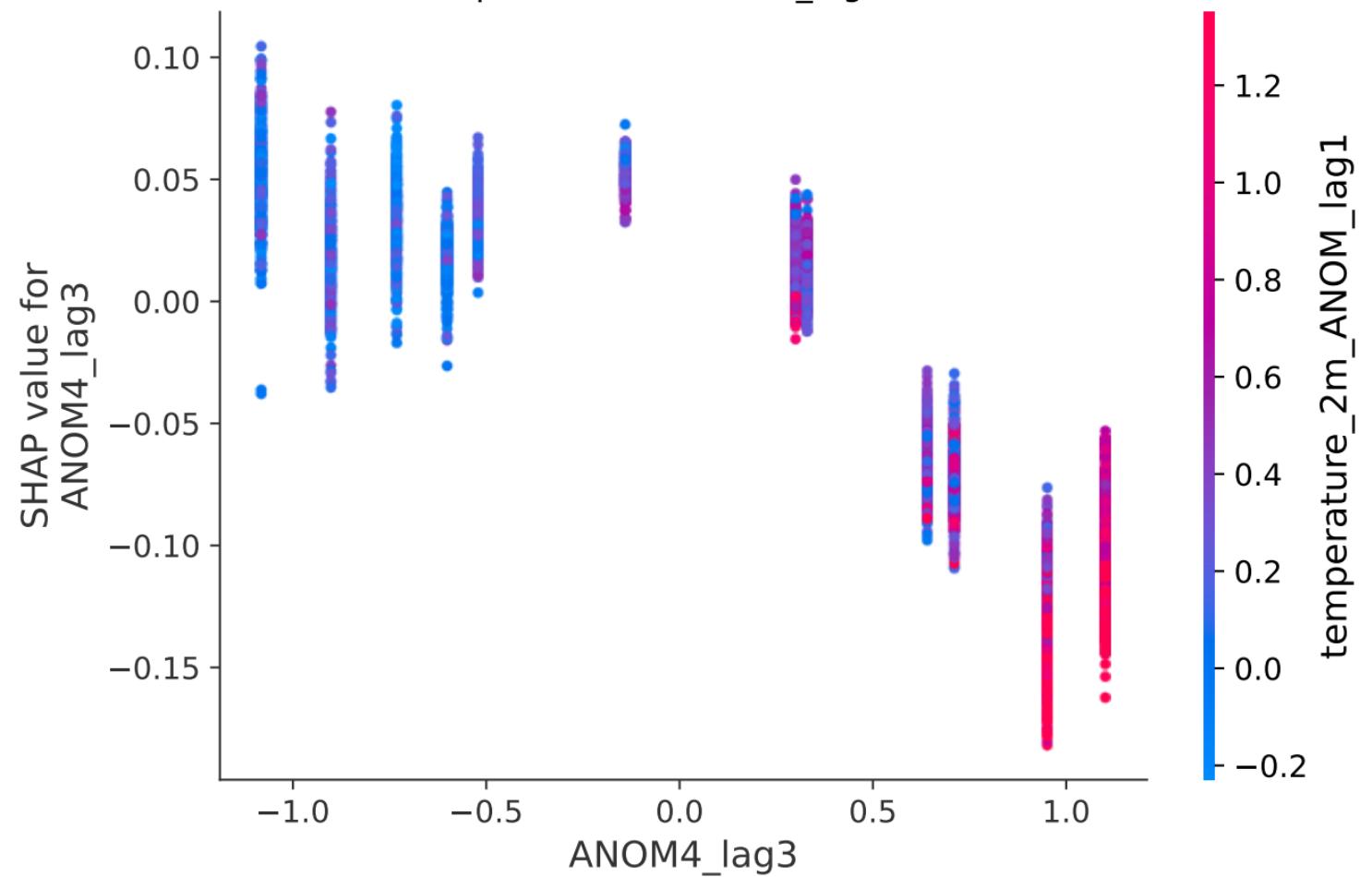
SHAP Dependence - ANOM4_lag1 - Class 3



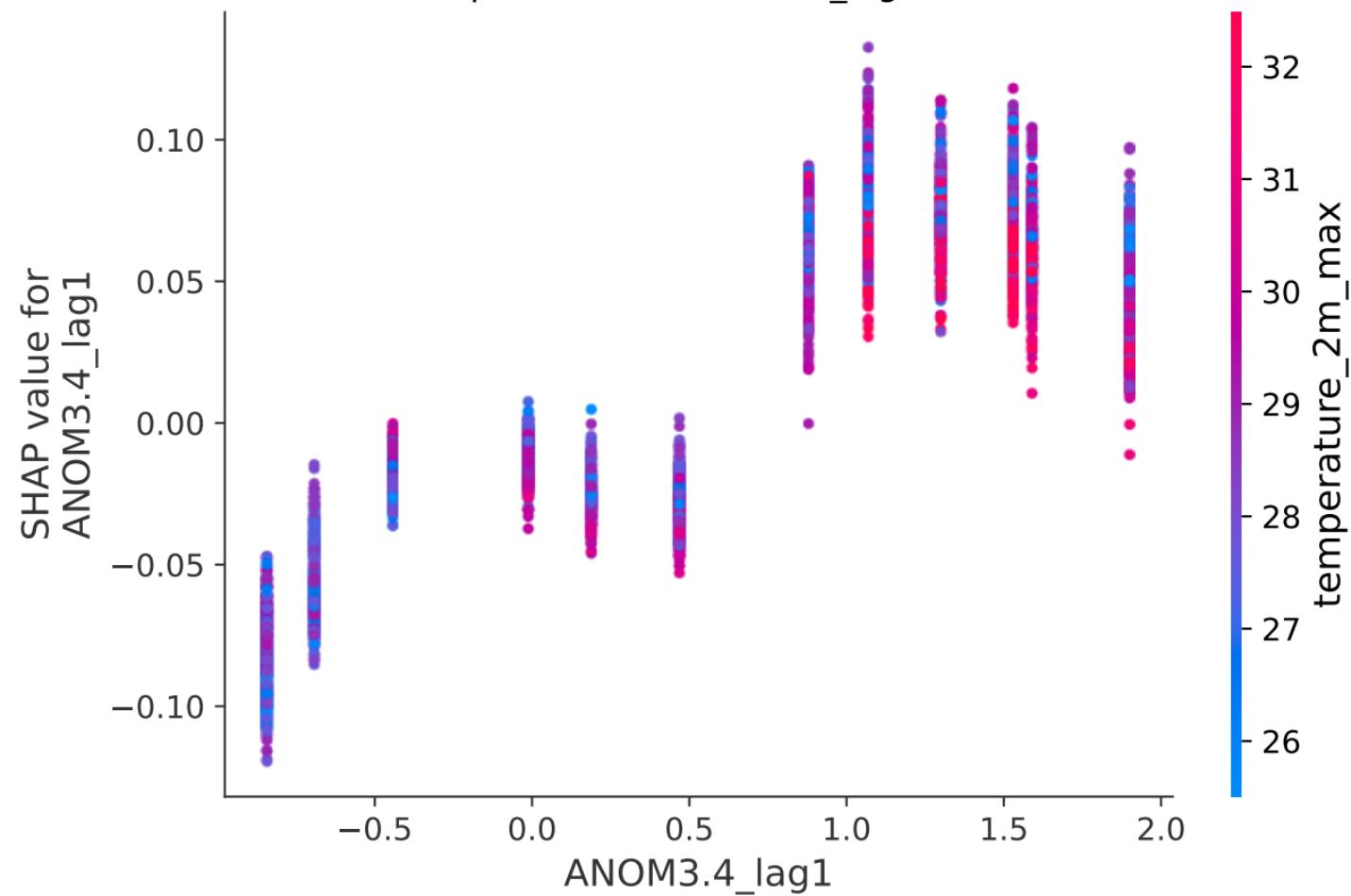
SHAP Dependence - ANOM4_lag2 - Class 3



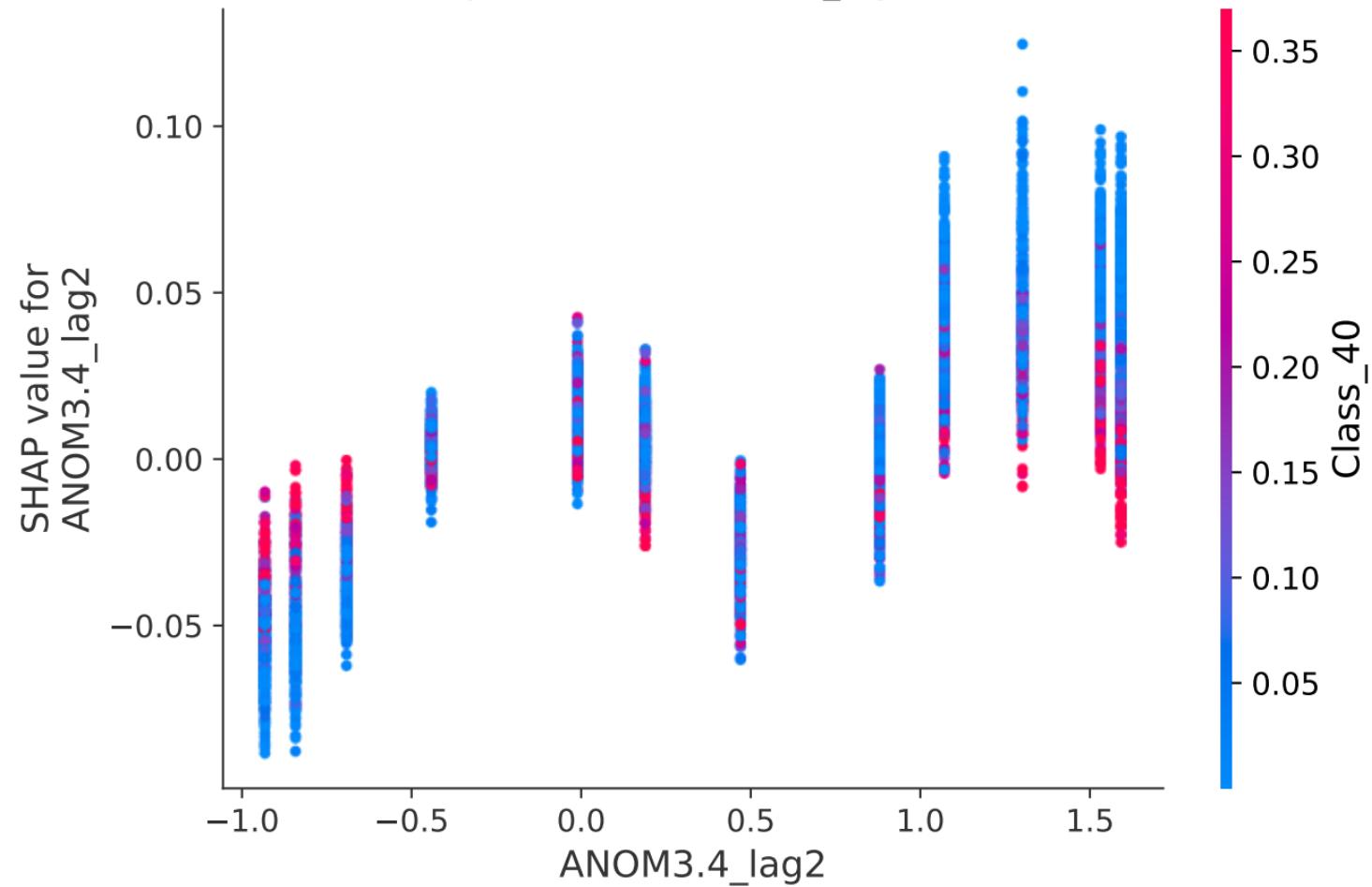
SHAP Dependence - ANOM4_lag3 - Class 3



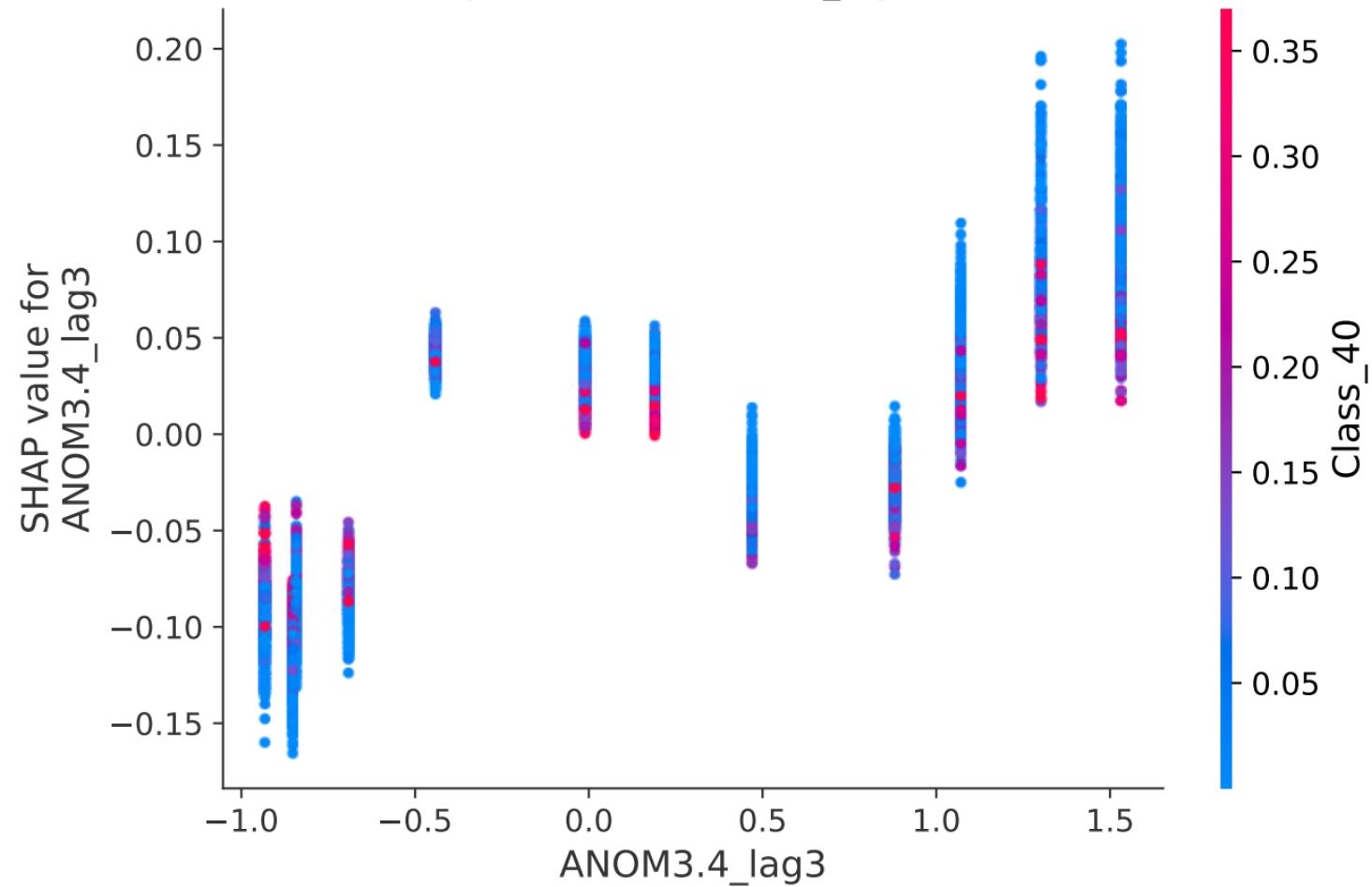
SHAP Dependence - ANOM3.4_lag1 - Class 3



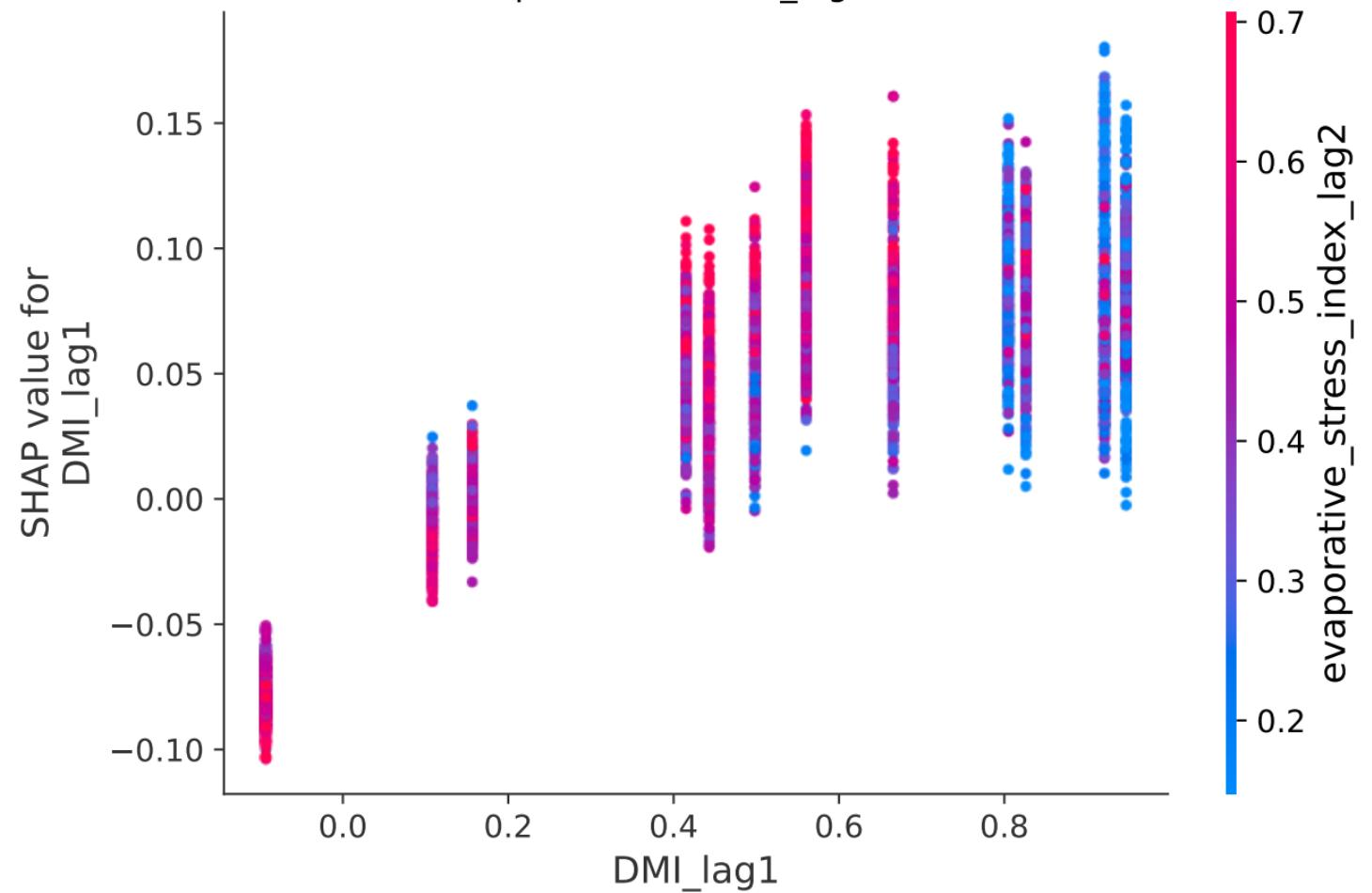
SHAP Dependence - ANOM3.4_lag2 - Class 3



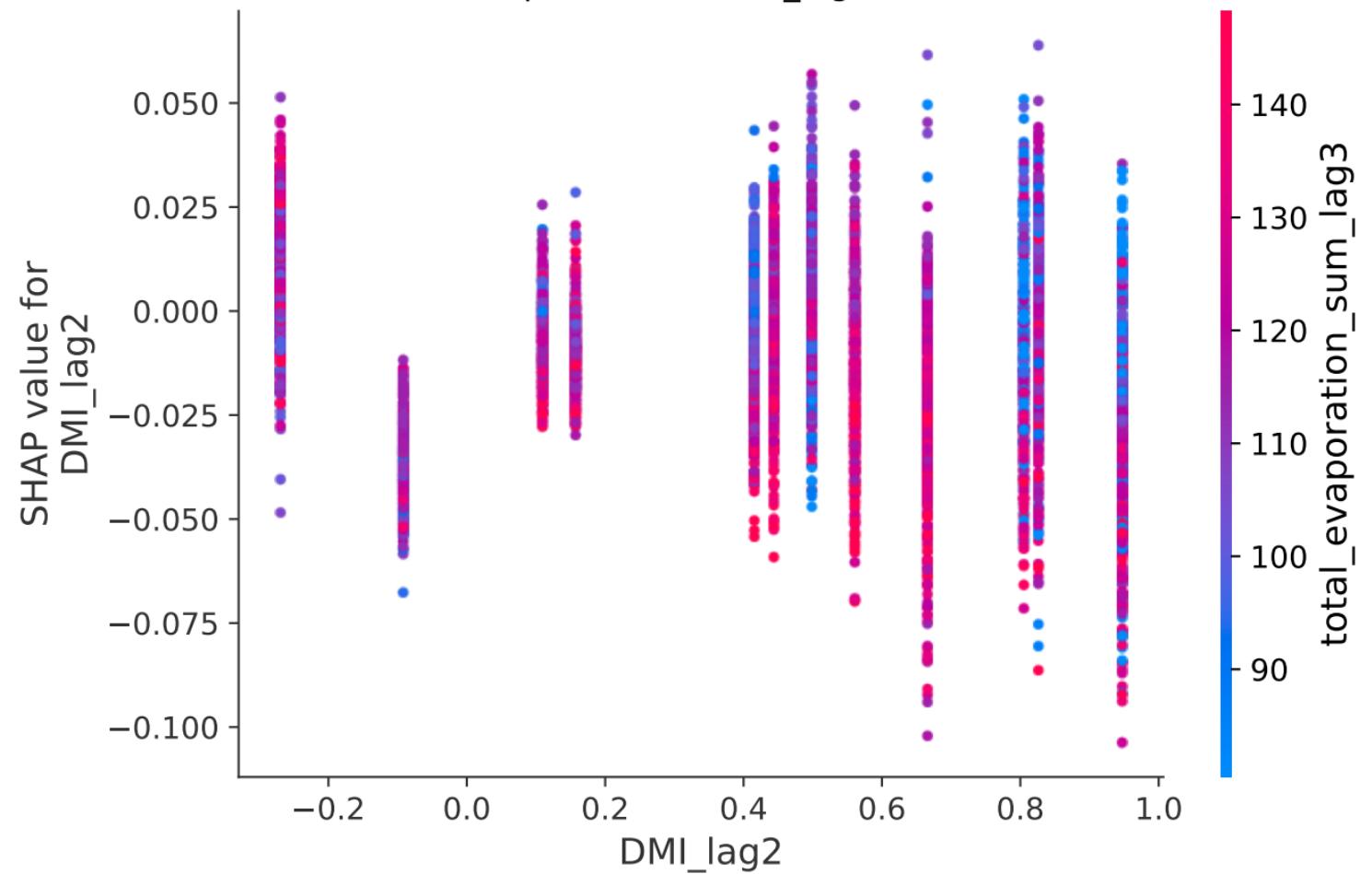
SHAP Dependence - ANOM3.4_lag3 - Class 3



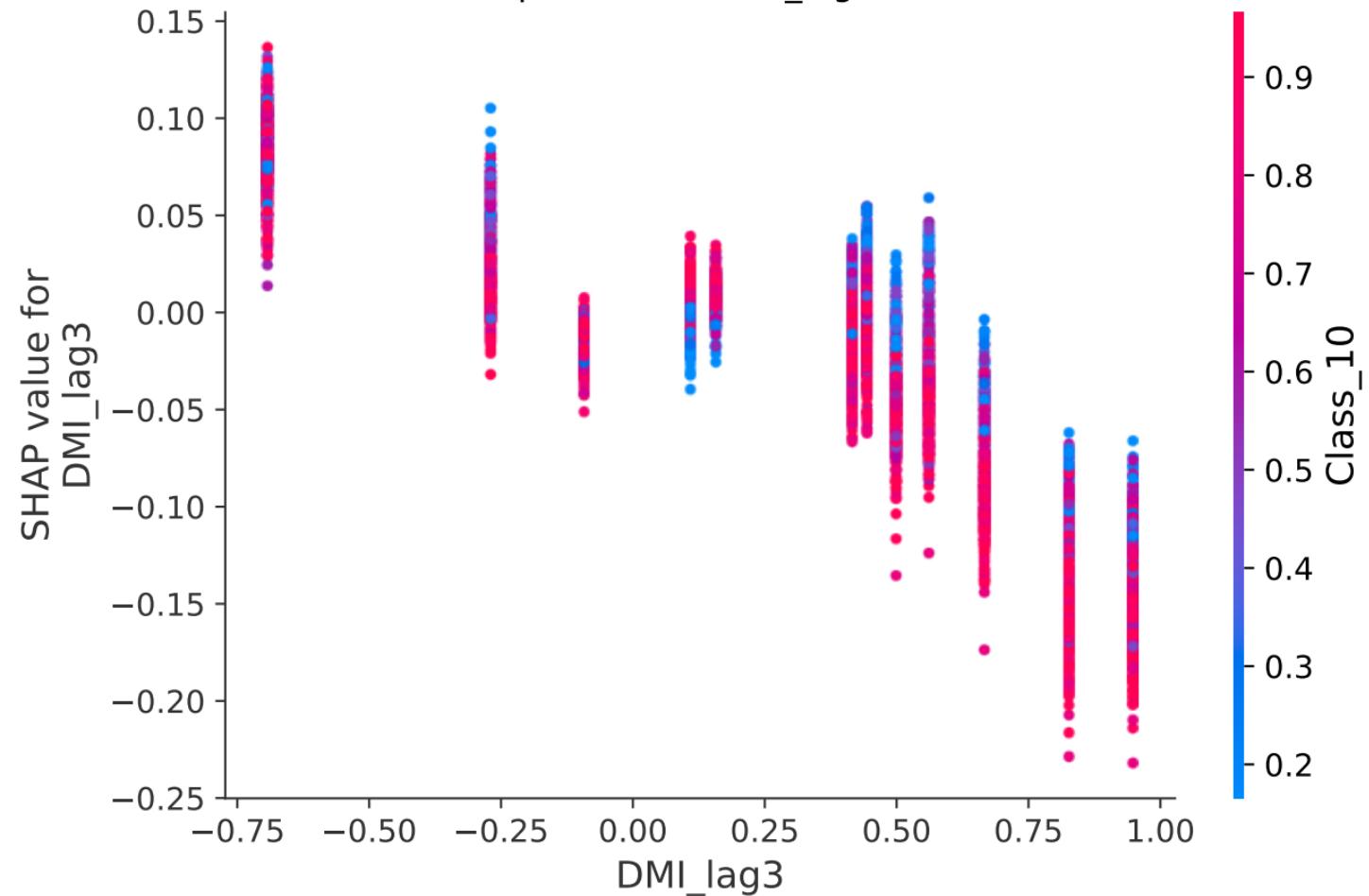
SHAP Dependence - DMI_lag1 - Class 3



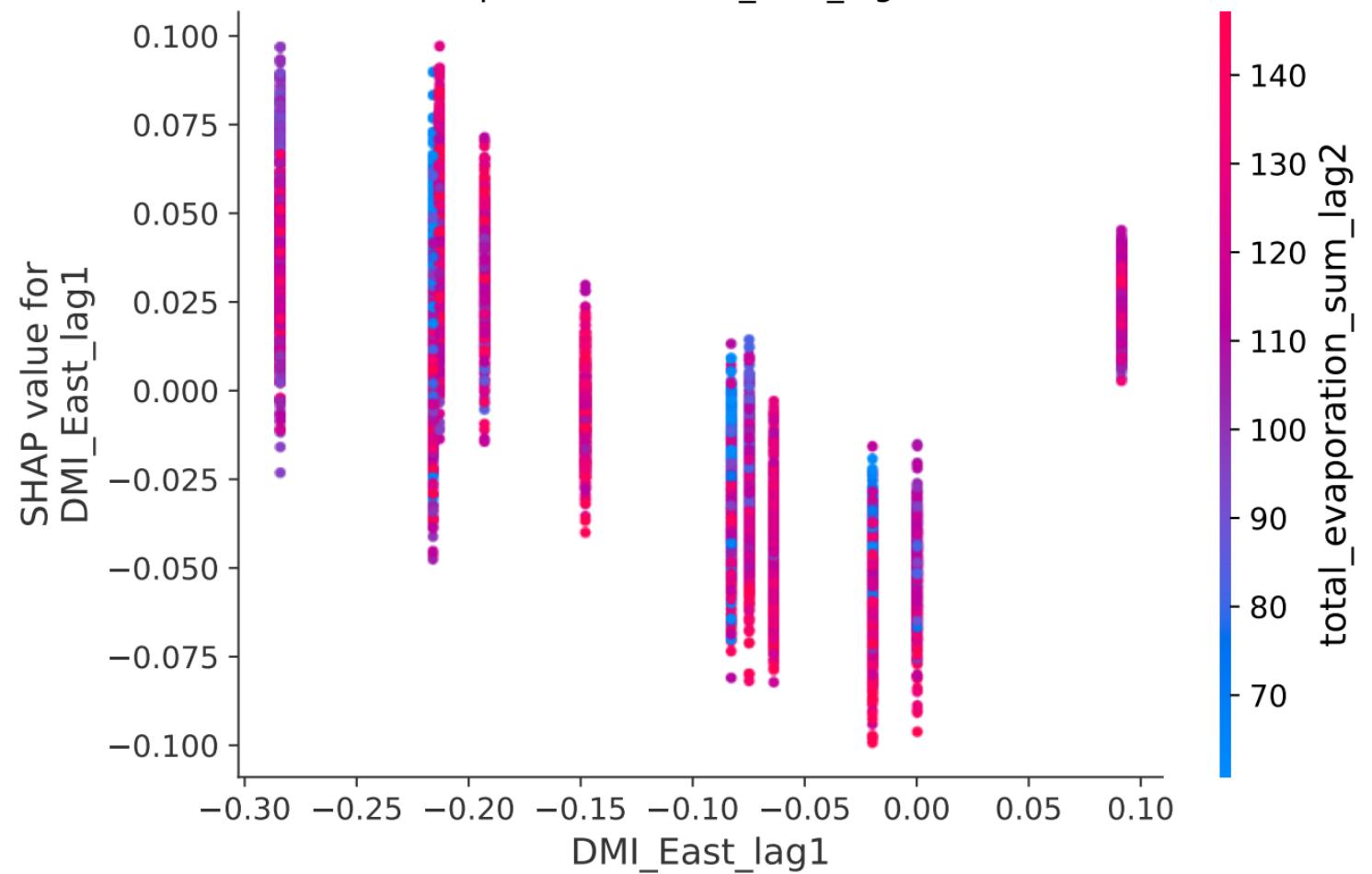
SHAP Dependence - DMI_lag2 - Class 3



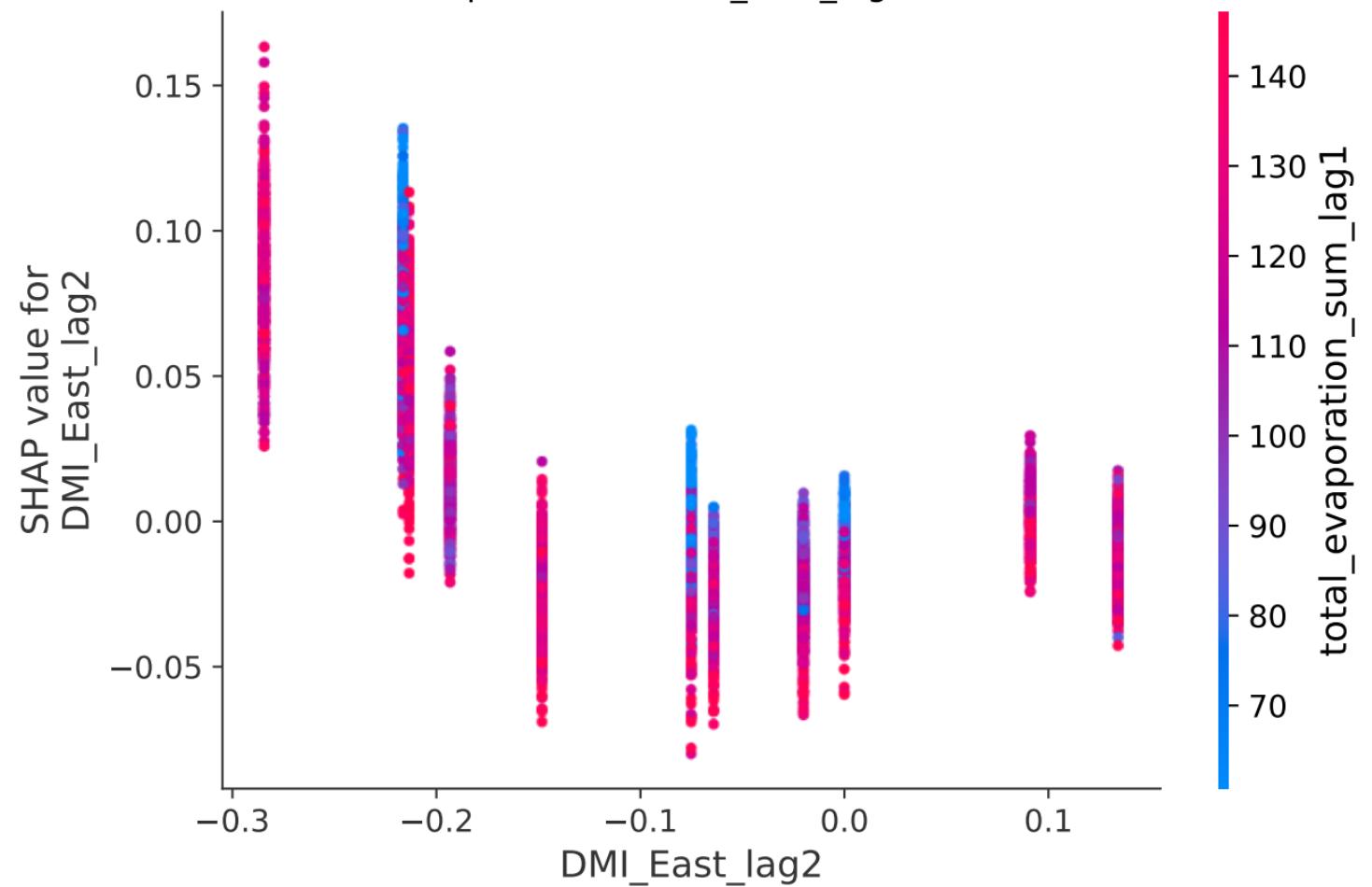
SHAP Dependence - DMI_lag3 - Class 3



SHAP Dependence - DMI_East_lag1 - Class 3



SHAP Dependence - DMI_East_lag2 - Class 3



SHAP Dependence - DMI_East_lag3 - Class 3

