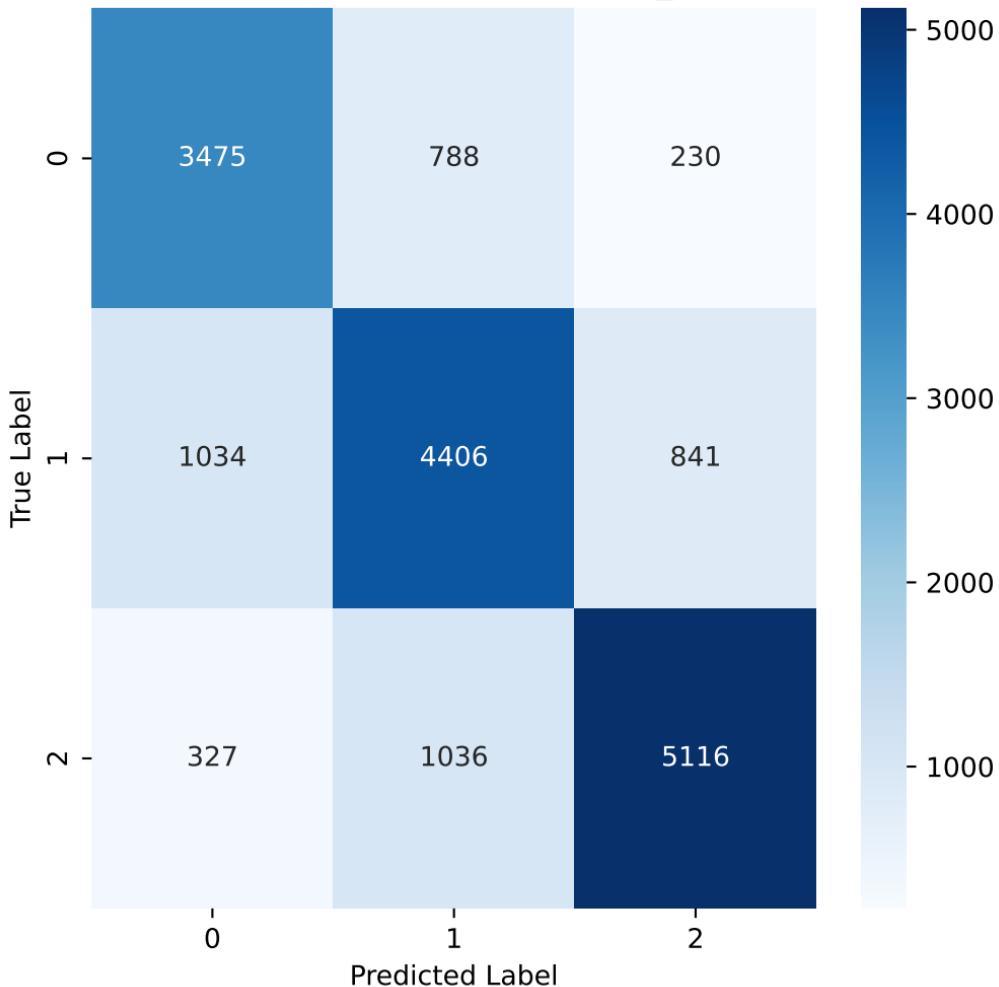


Confusion Matrix - Sumatra (Train_Val Set)

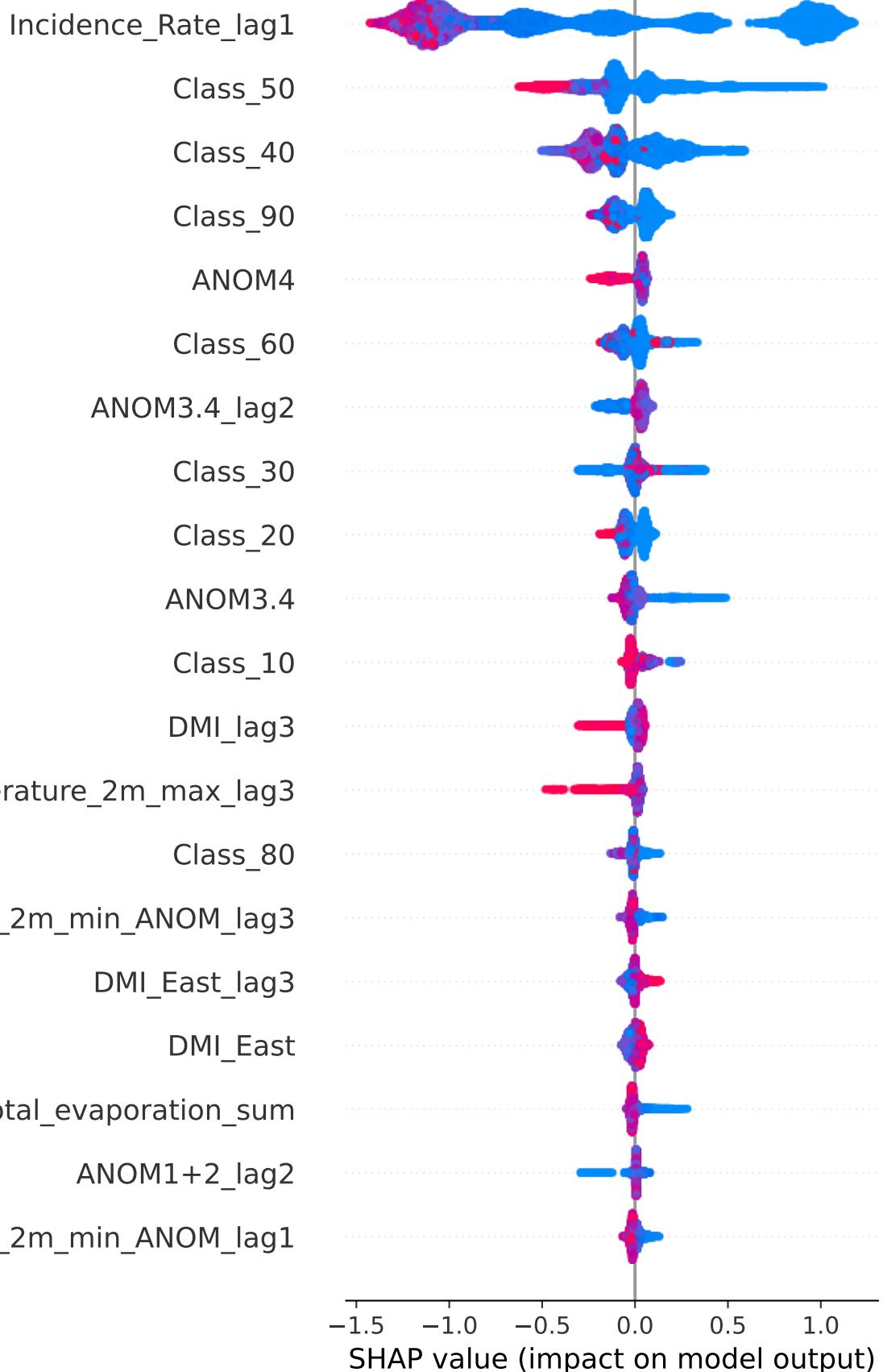


SHAP Beeswarm Plot for Class 0 - Sumatra (Train_Val Set)

High

Feature value

Low

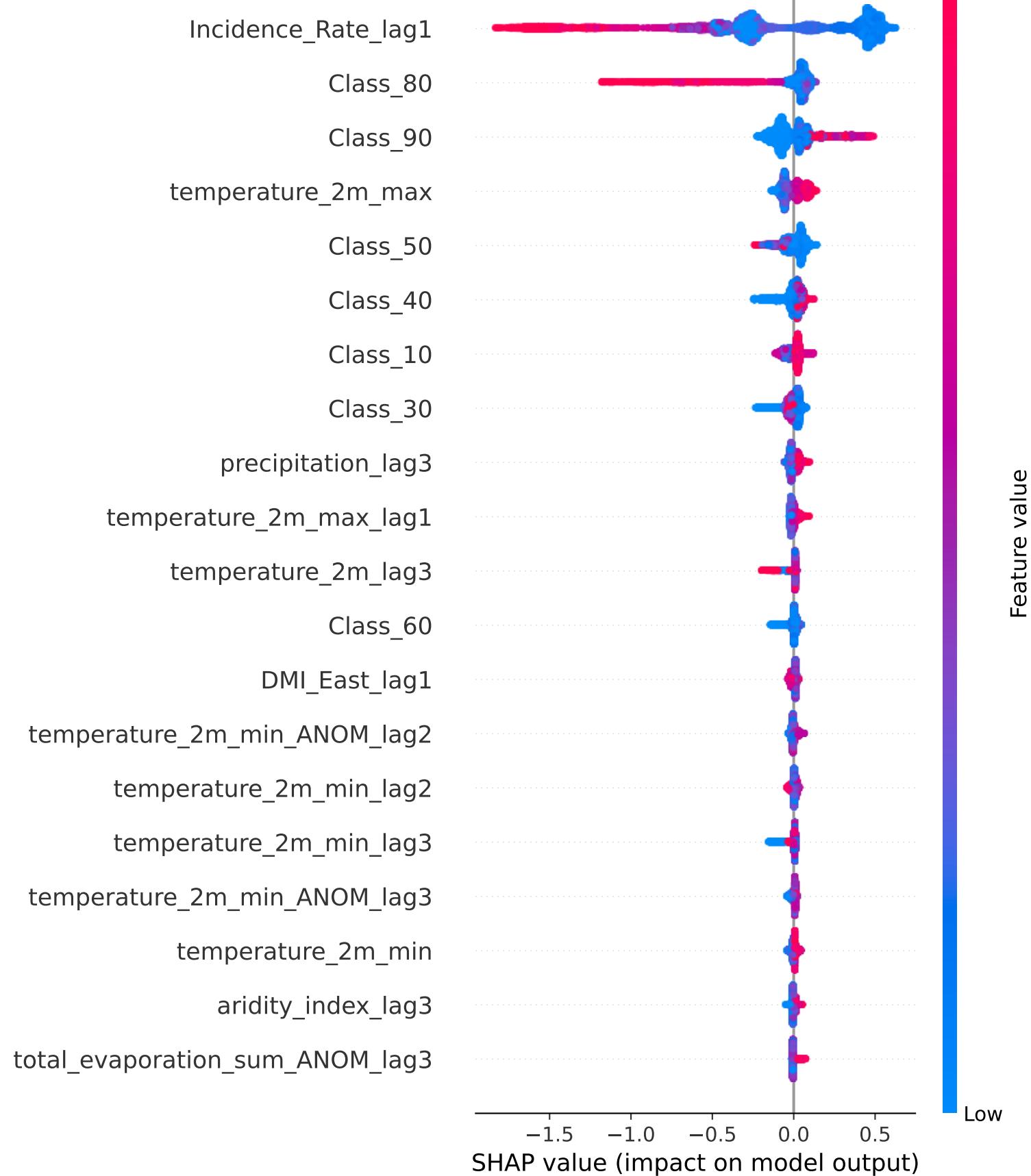


SHAP Beeswarm Plot for Class 1 - Sumatra (Train_Val Set)

High

Feature value

Low

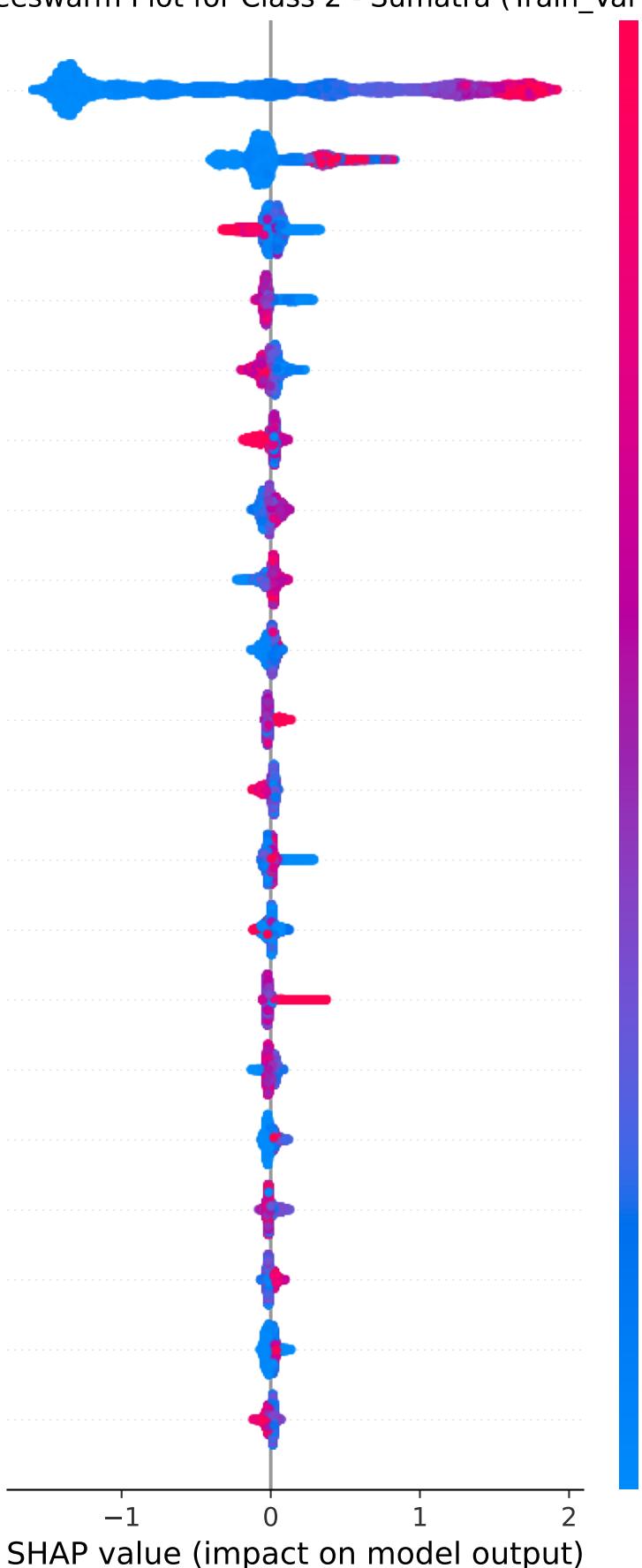


SHAP Beeswarm Plot for Class 2 - Sumatra (Train_Val Set)

High

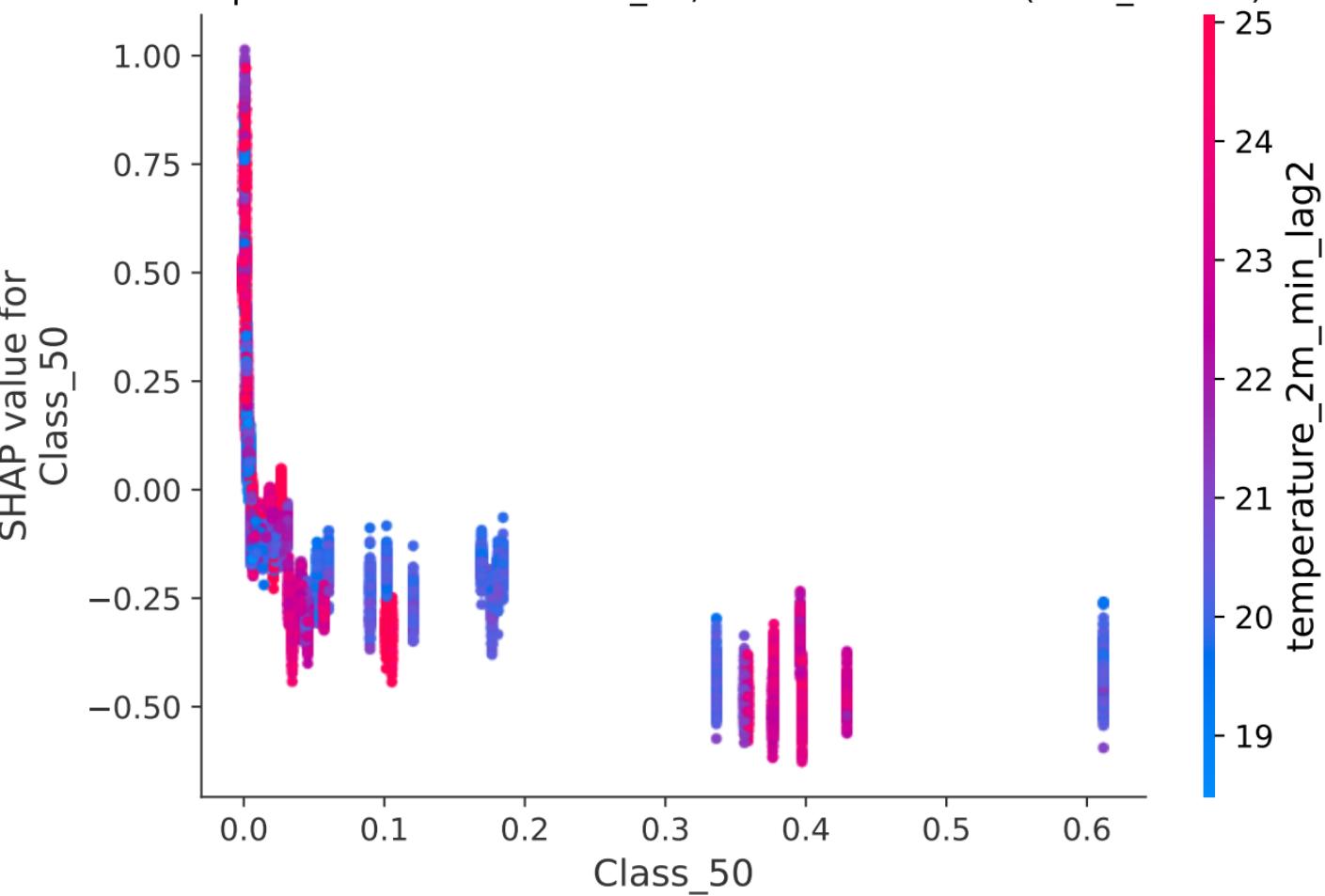
Feature value

Low

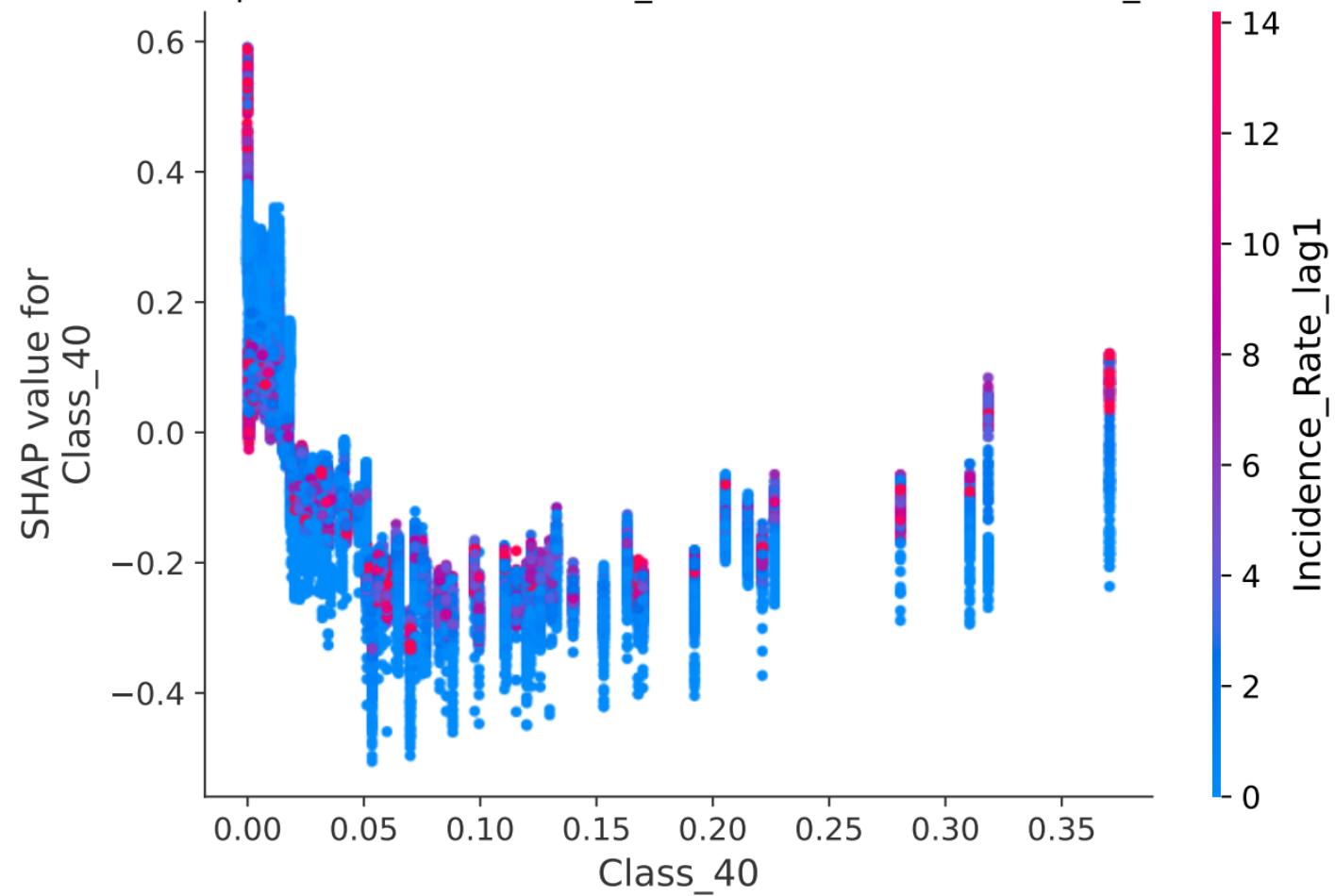


SHAP Dependence Plot for Class_50, Class 0 - Sumatra (Train_Val Set)

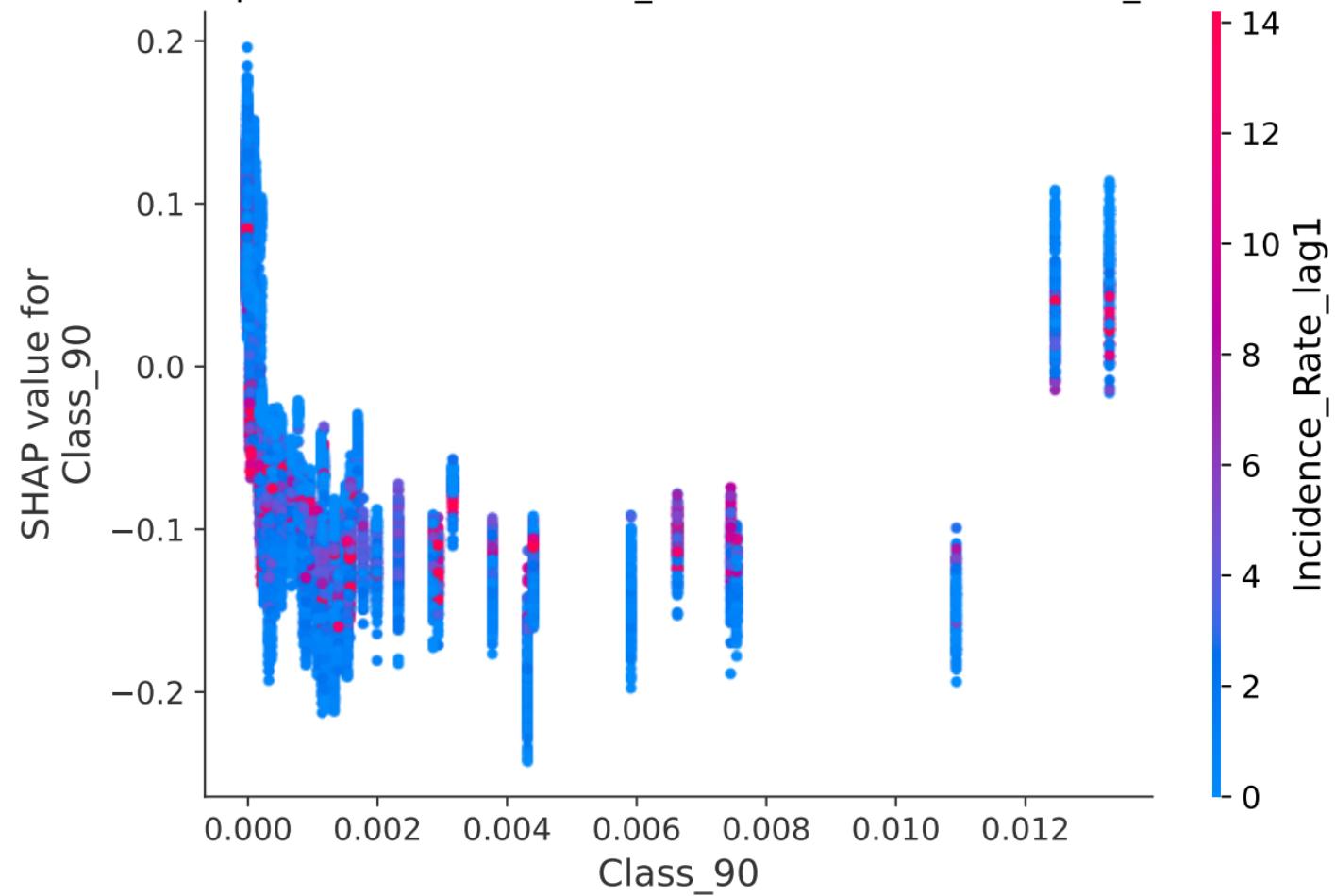
SHAP value for
Class_50



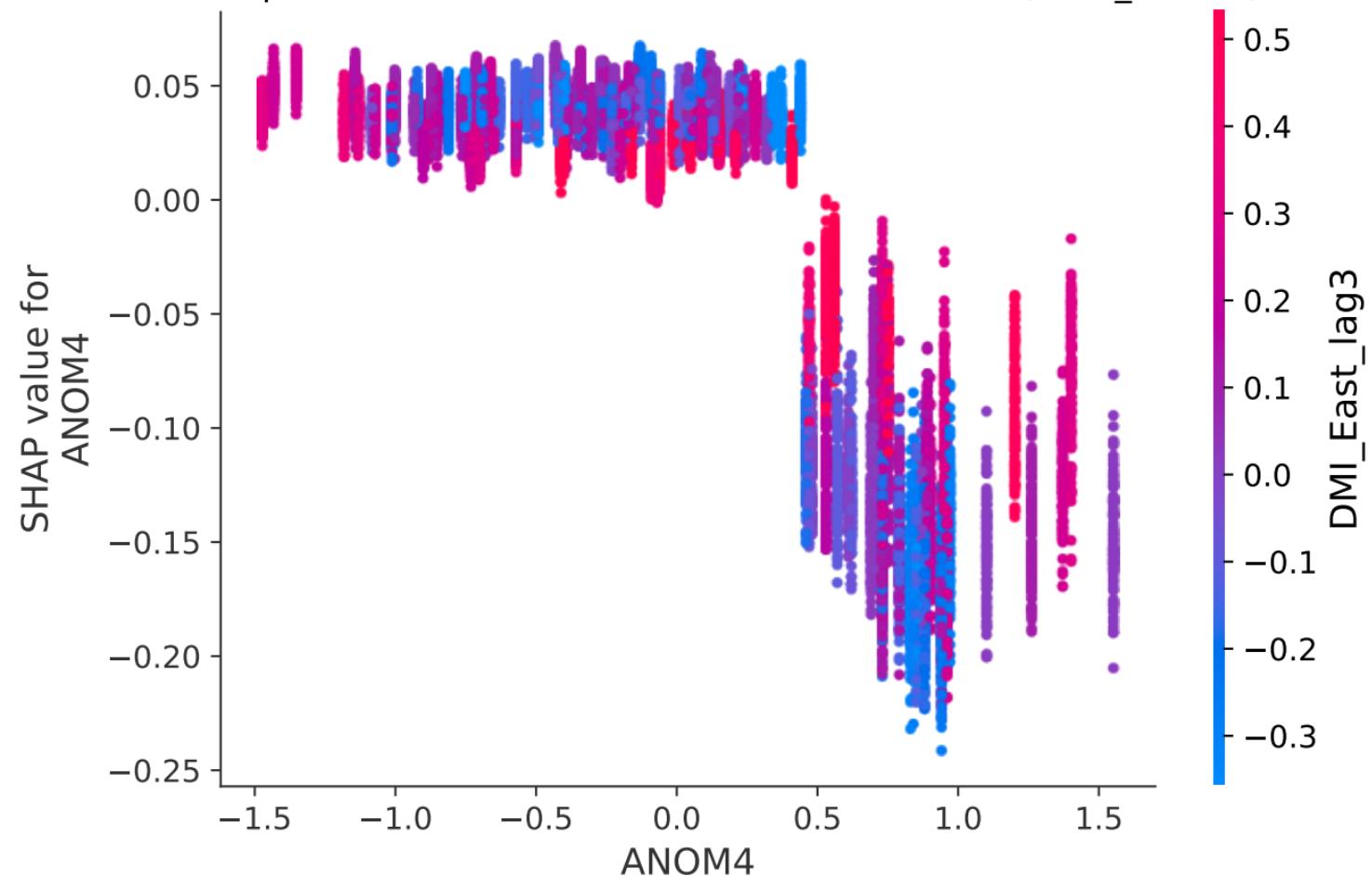
SHAP Dependence Plot for Class_40, Class 0 - Sumatra (Train_Val Set)



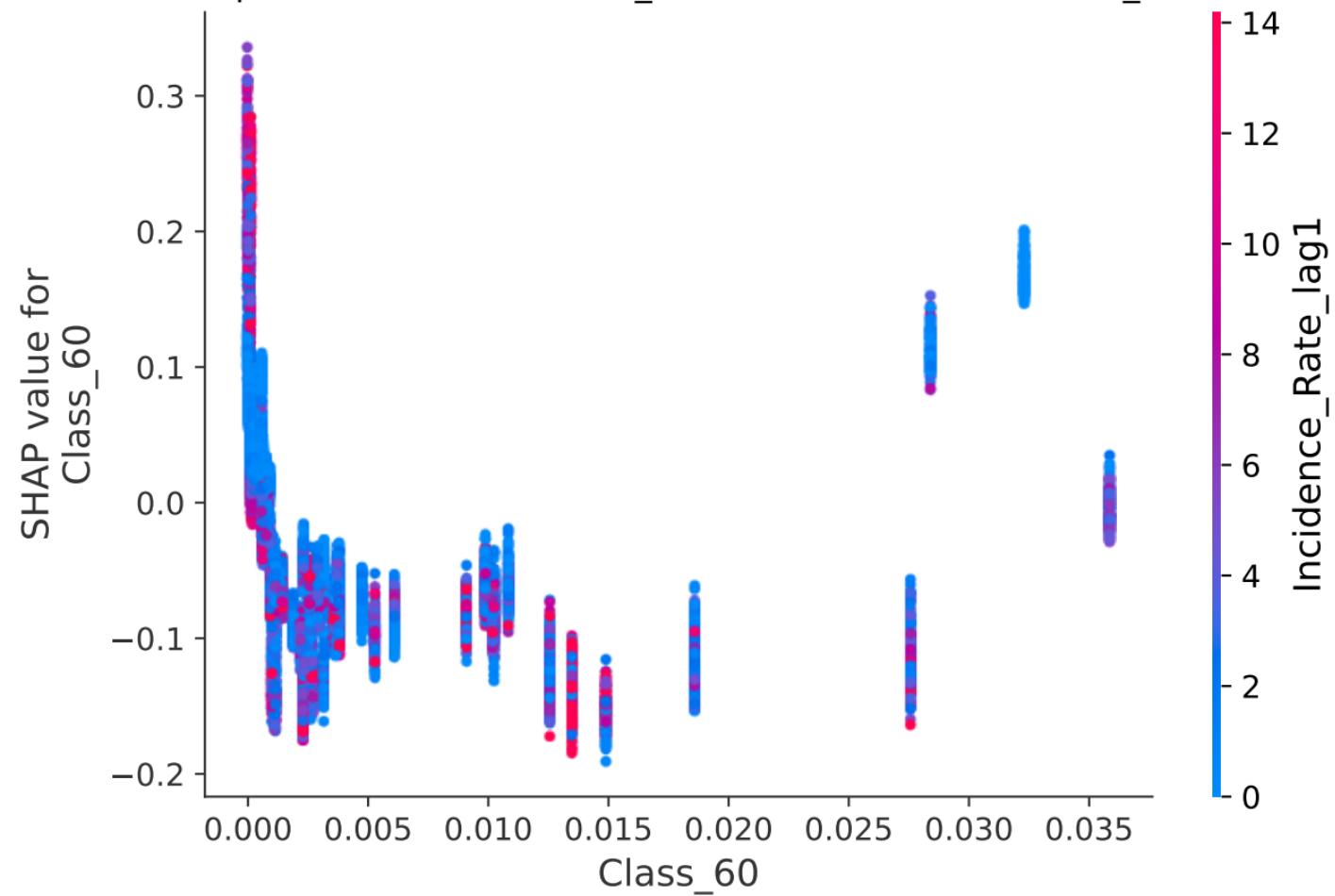
SHAP Dependence Plot for Class_90, Class 0 - Sumatra (Train_Val Set)



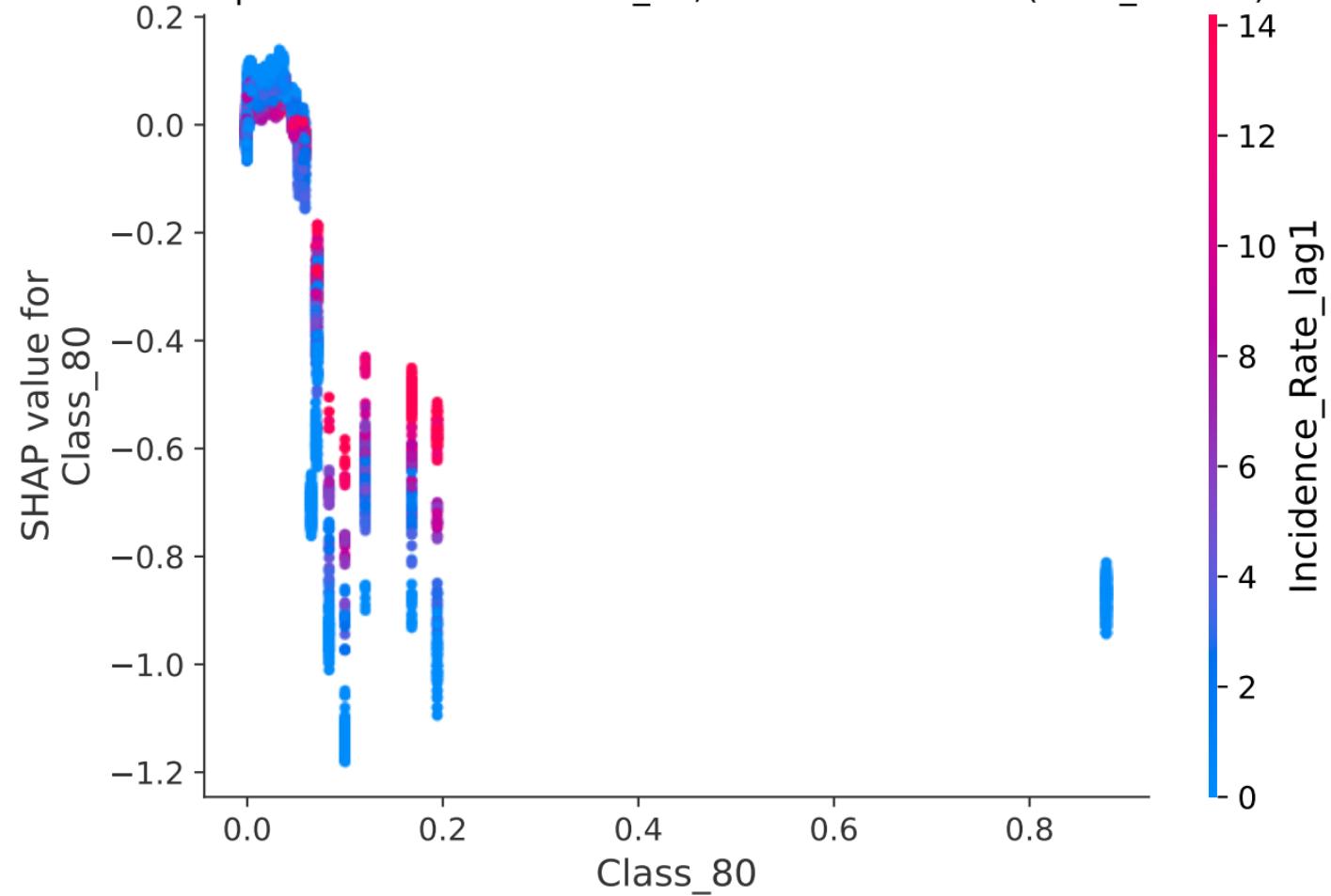
SHAP Dependence Plot for ANOM4, Class 0 - Sumatra (Train_Val Set)



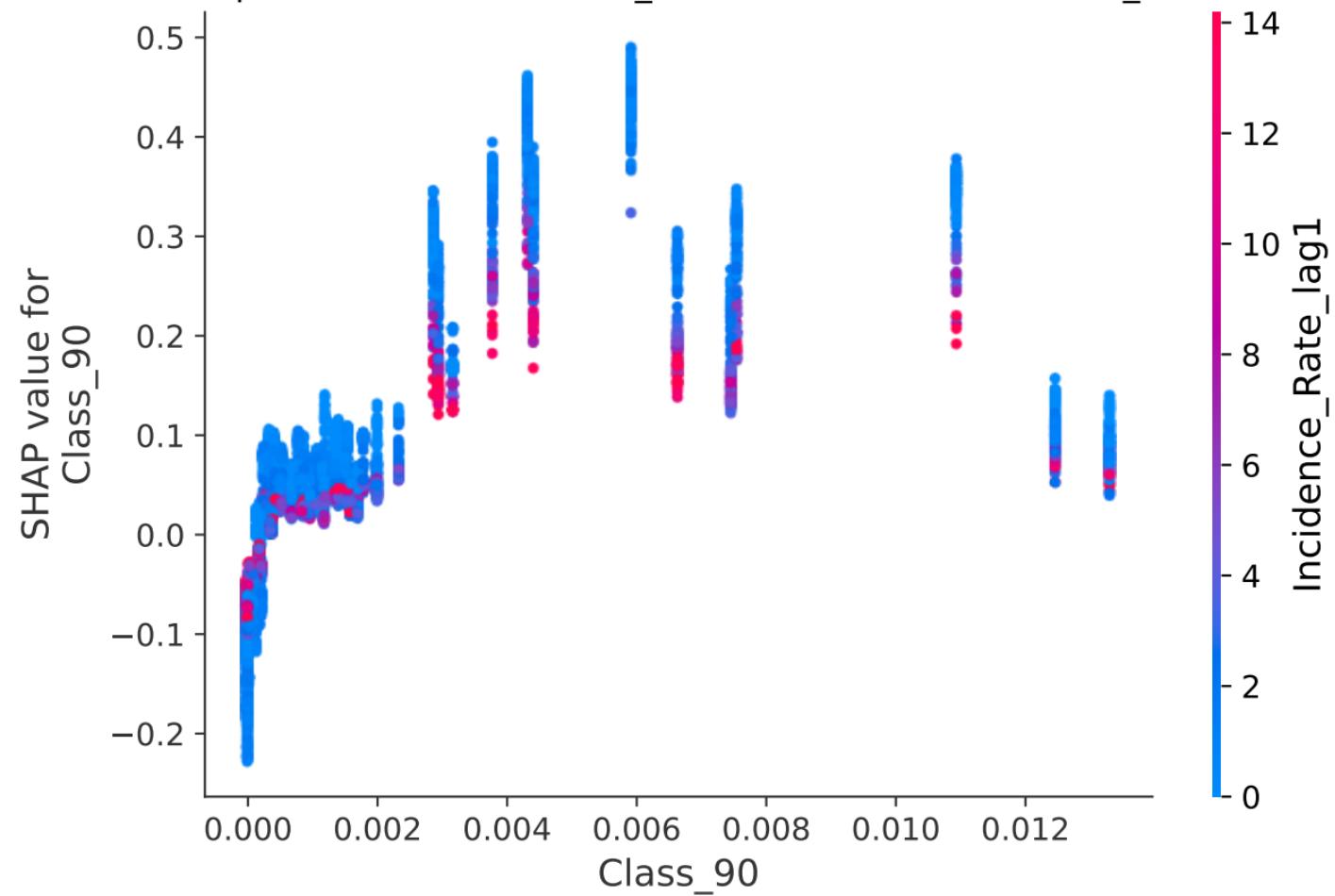
SHAP Dependence Plot for Class_60, Class 0 - Sumatra (Train_Val Set)



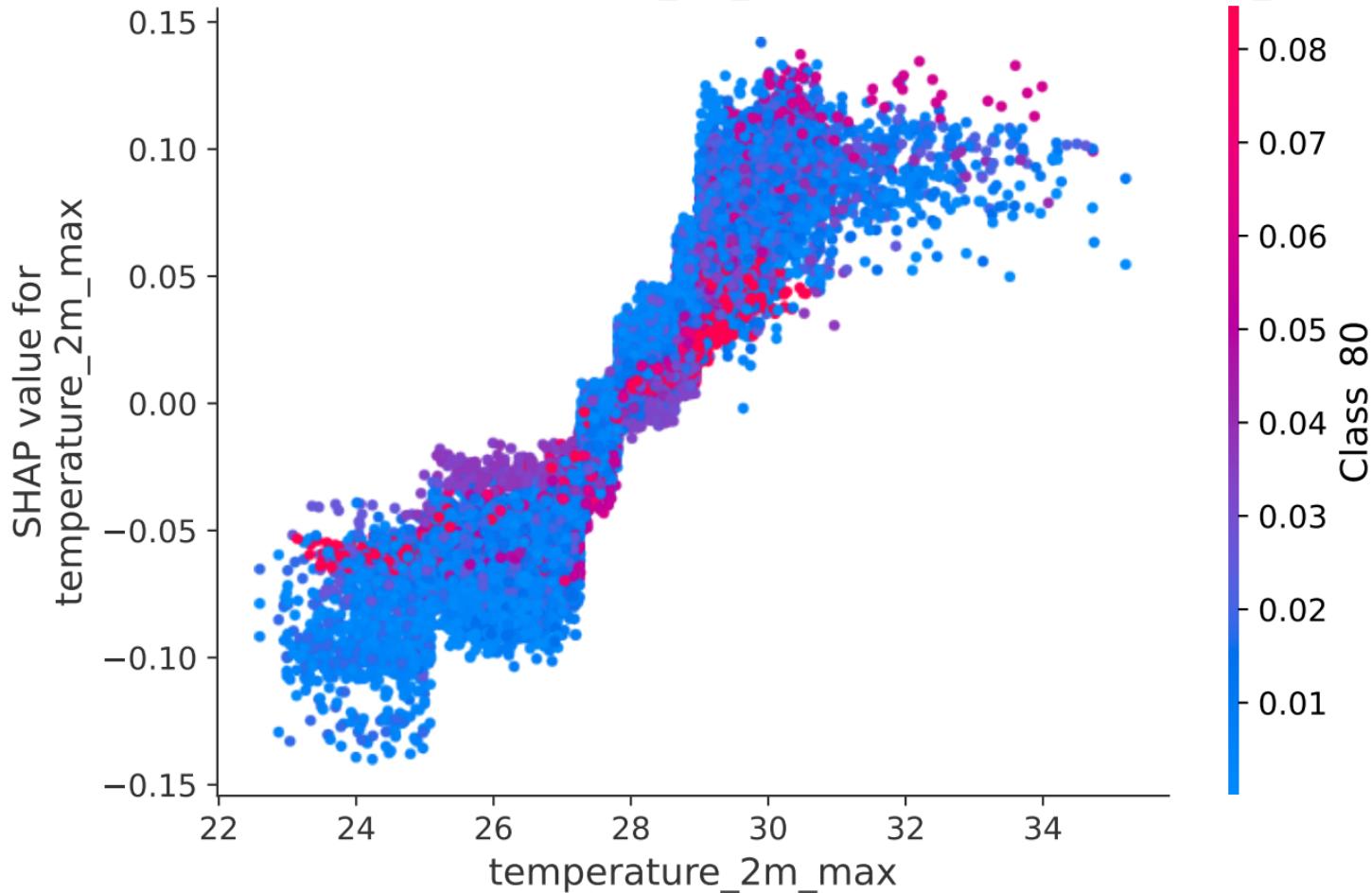
SHAP Dependence Plot for Class_80, Class 1 - Sumatra (Train_Val Set)



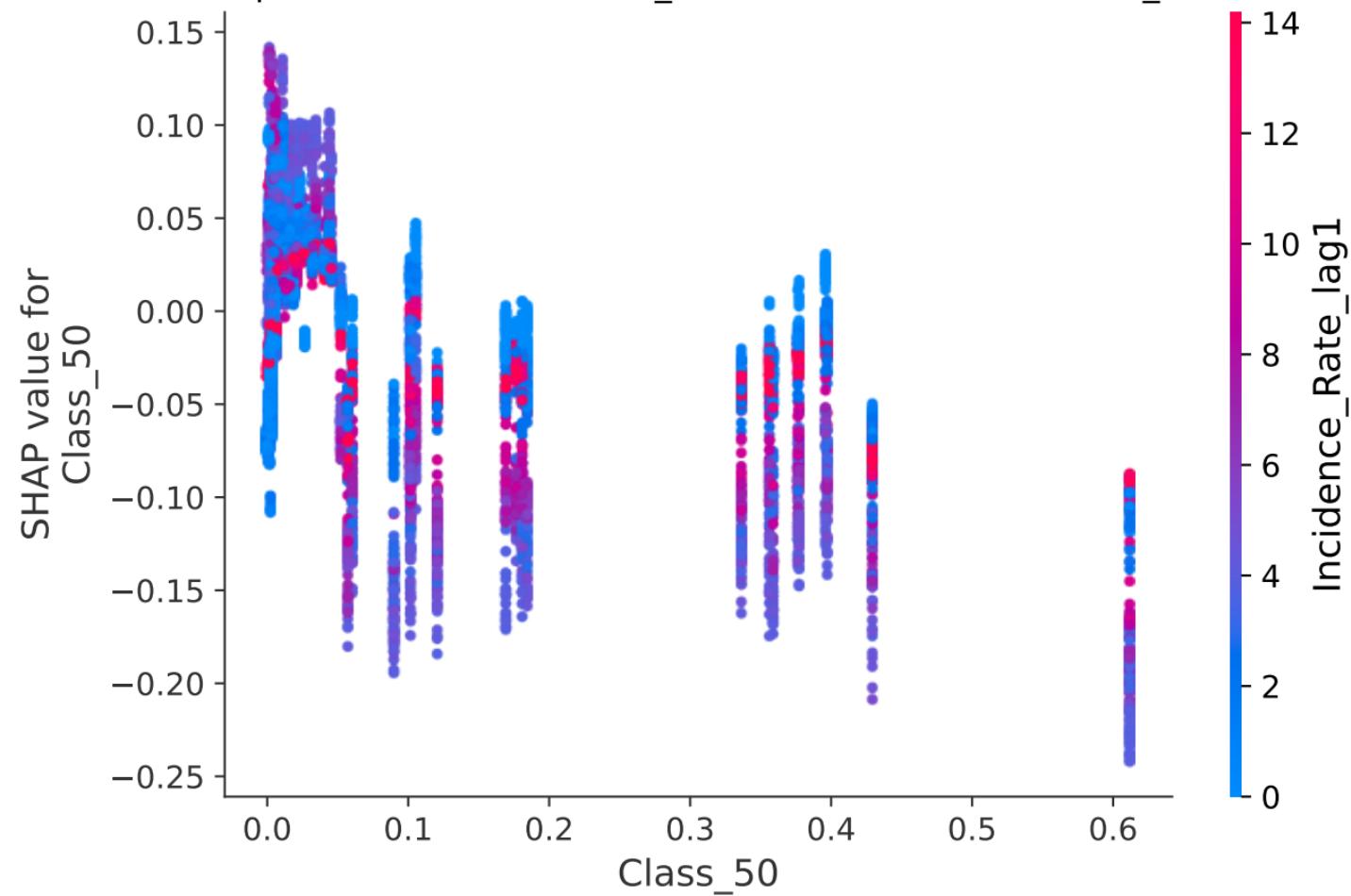
SHAP Dependence Plot for Class_90, Class 1 - Sumatra (Train_Val Set)



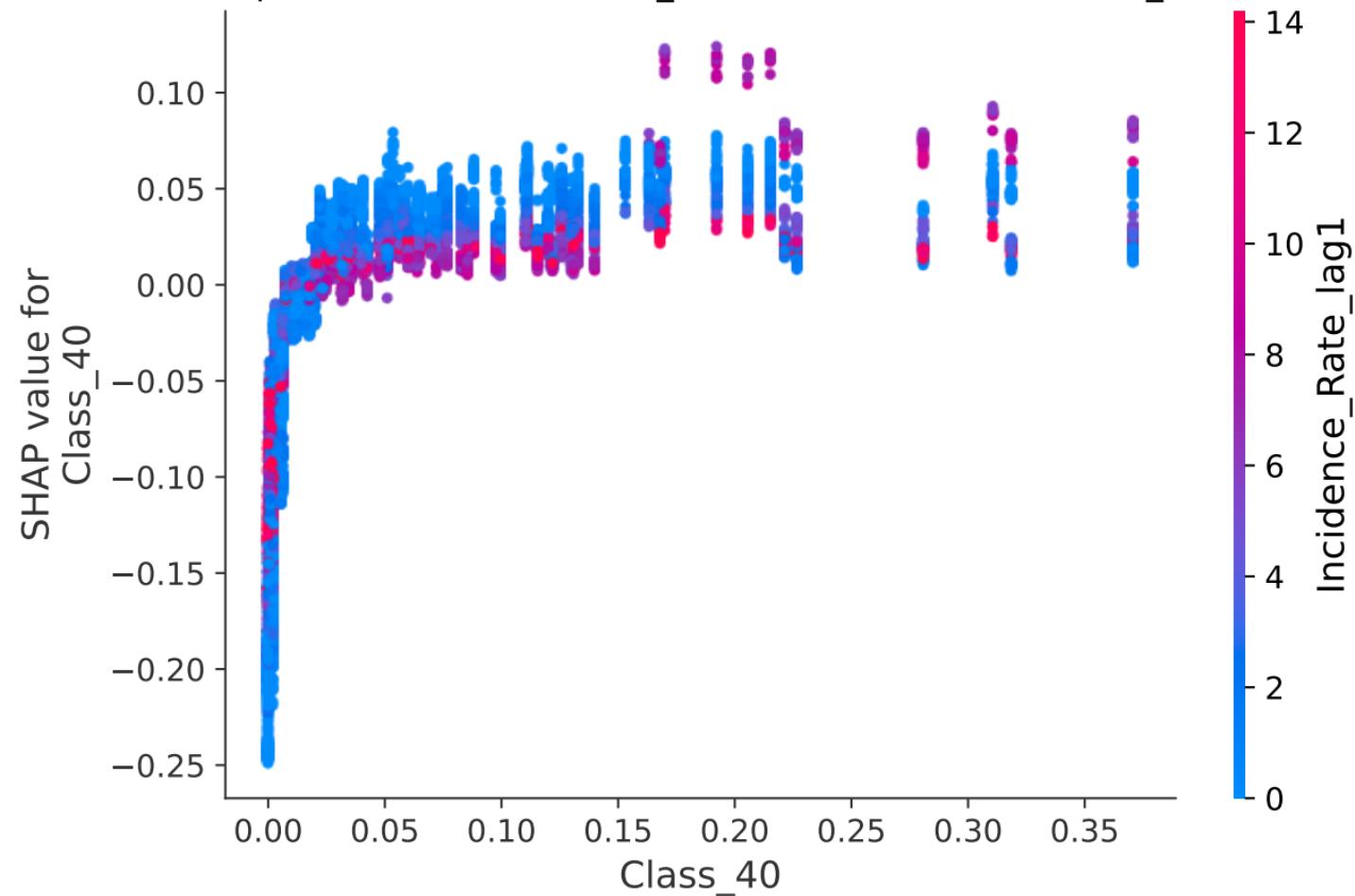
SHAP Dependence Plot for temperature_2m_max, Class 1 - Sumatra (Train_Val Set)



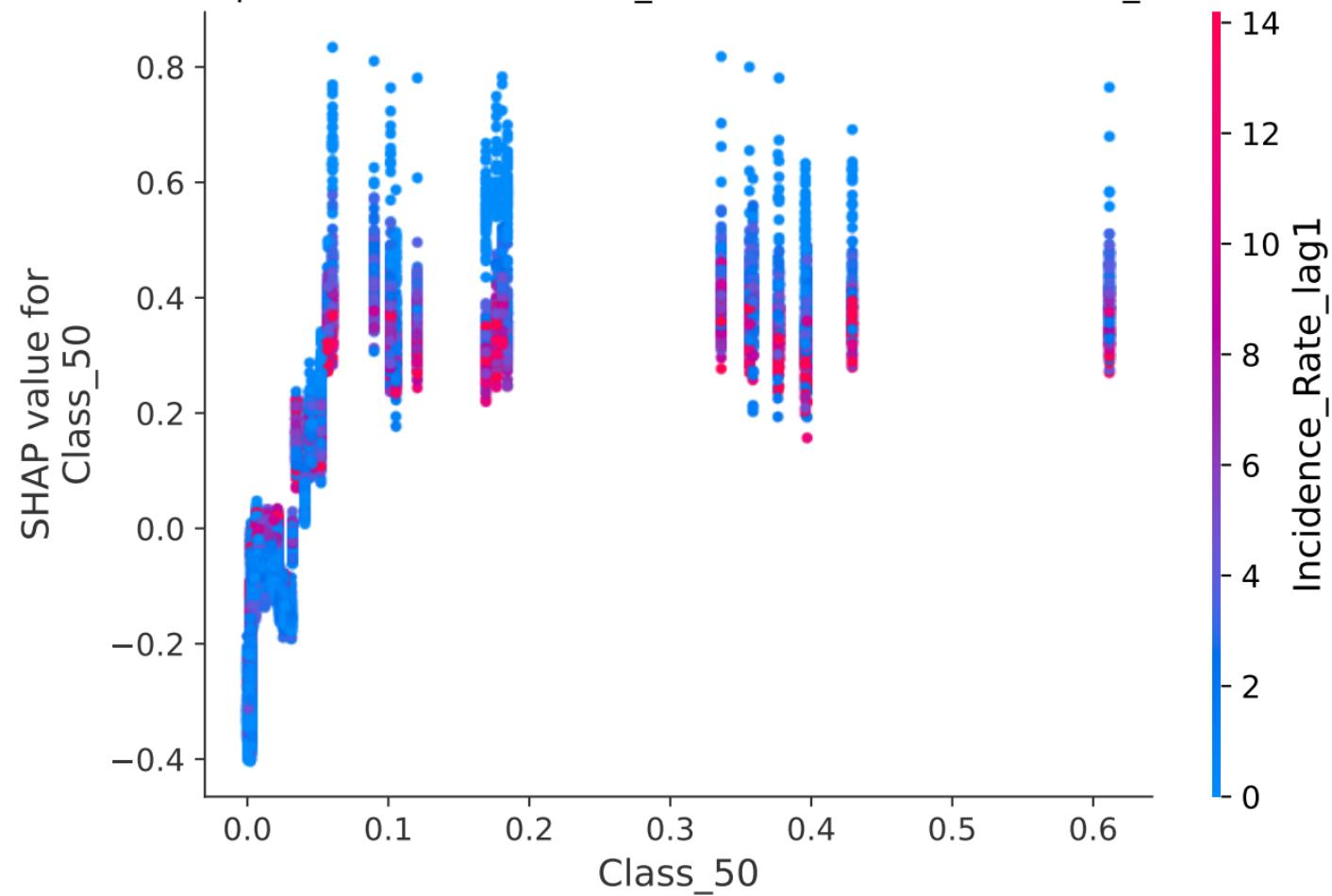
SHAP Dependence Plot for Class_50, Class 1 - Sumatra (Train_Val Set)



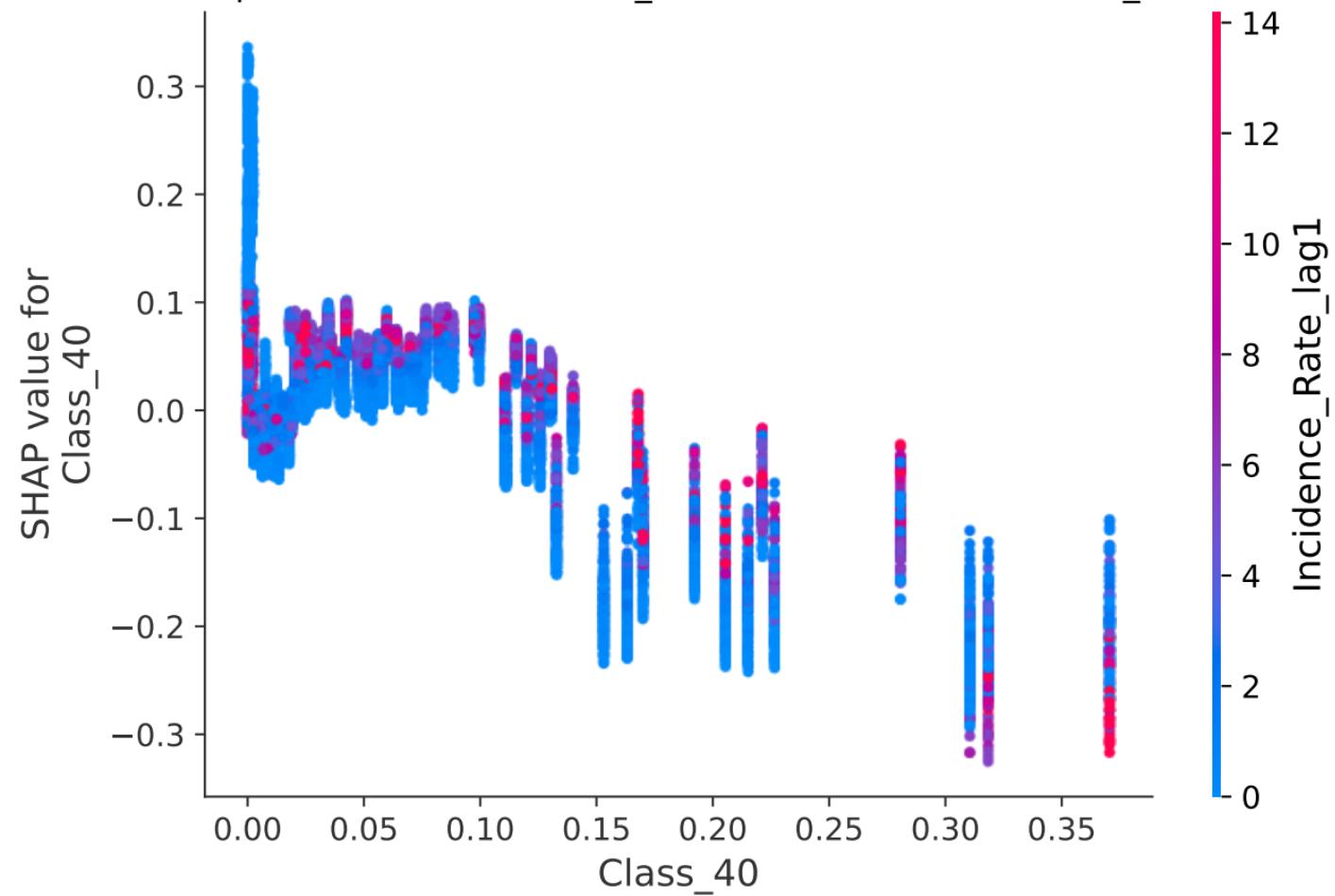
SHAP Dependence Plot for Class_40, Class 1 - Sumatra (Train_Val Set)



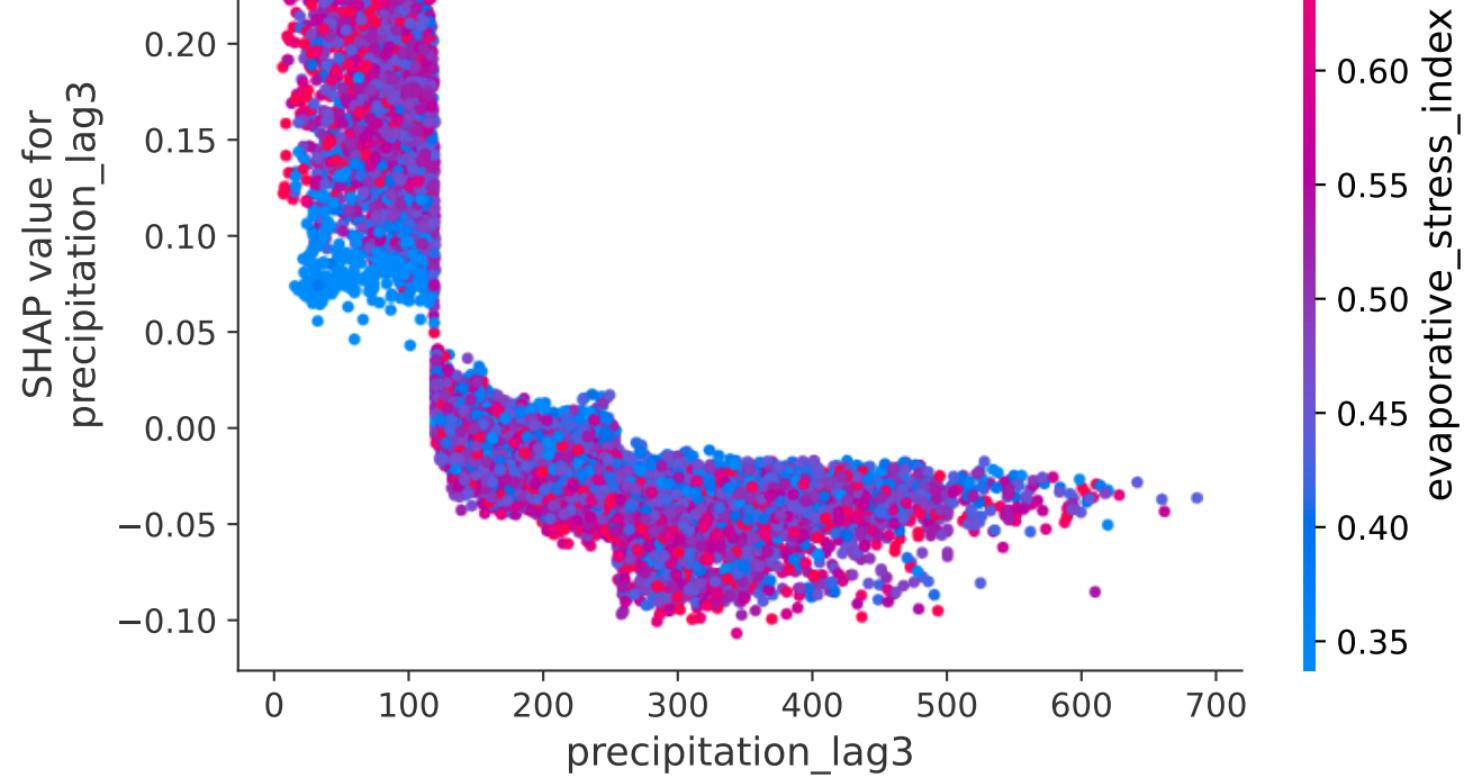
SHAP Dependence Plot for Class_50, Class 2 - Sumatra (Train_Val Set)



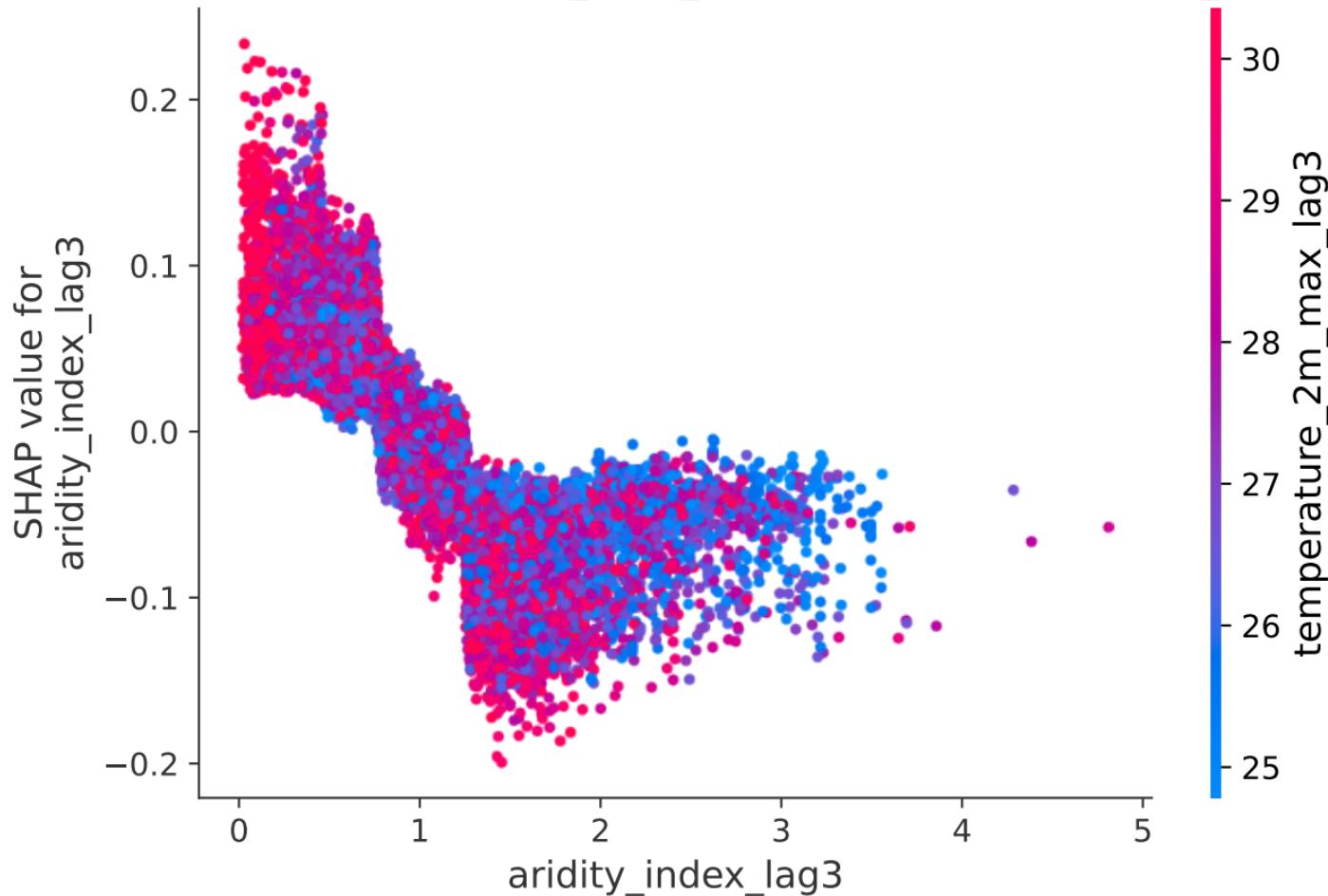
SHAP Dependence Plot for Class_40, Class 2 - Sumatra (Train_Val Set)



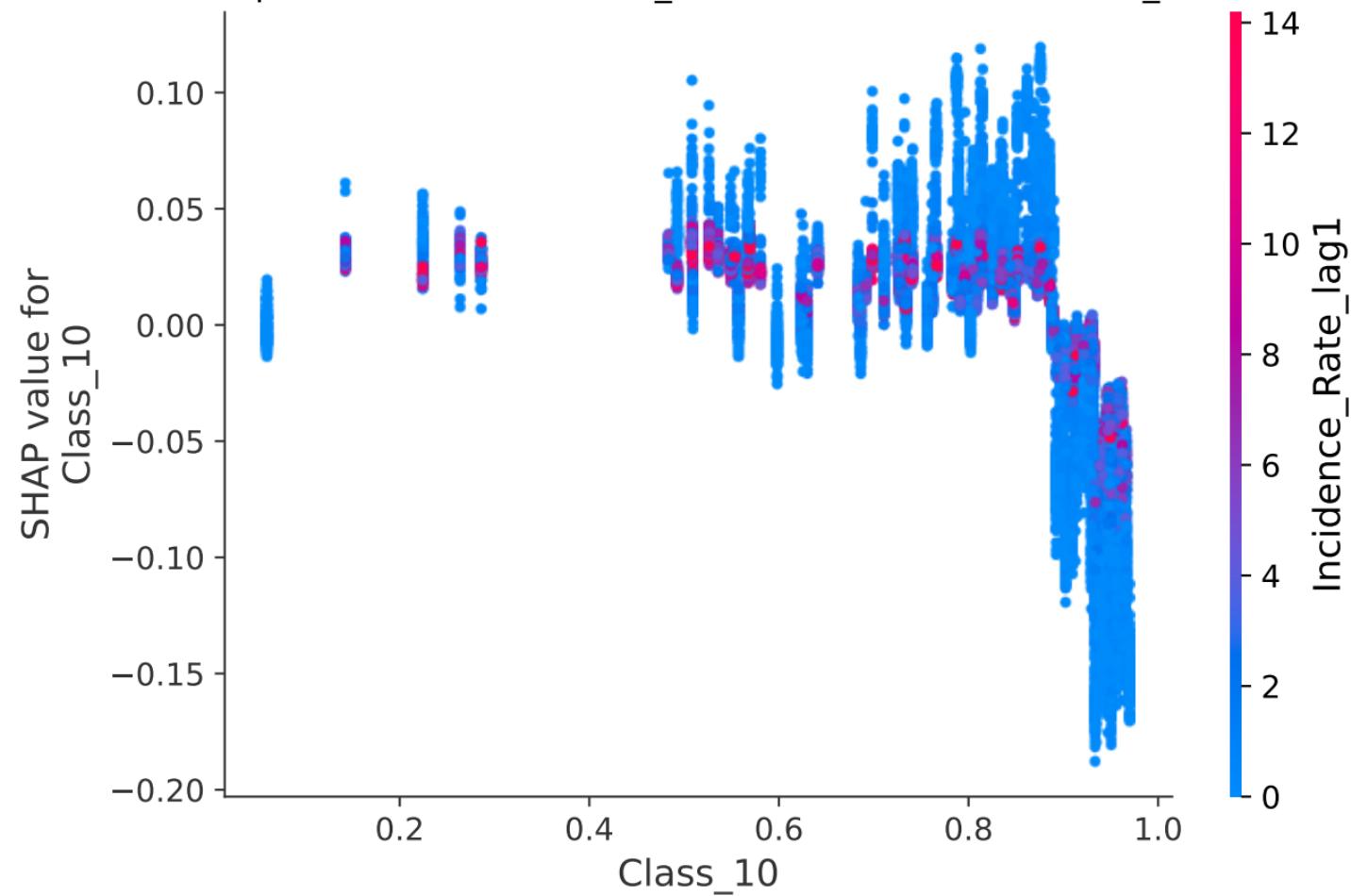
SHAP Dependence Plot for precipitation_lag3, Class 2 - Sumatra (Train_Val_Set)



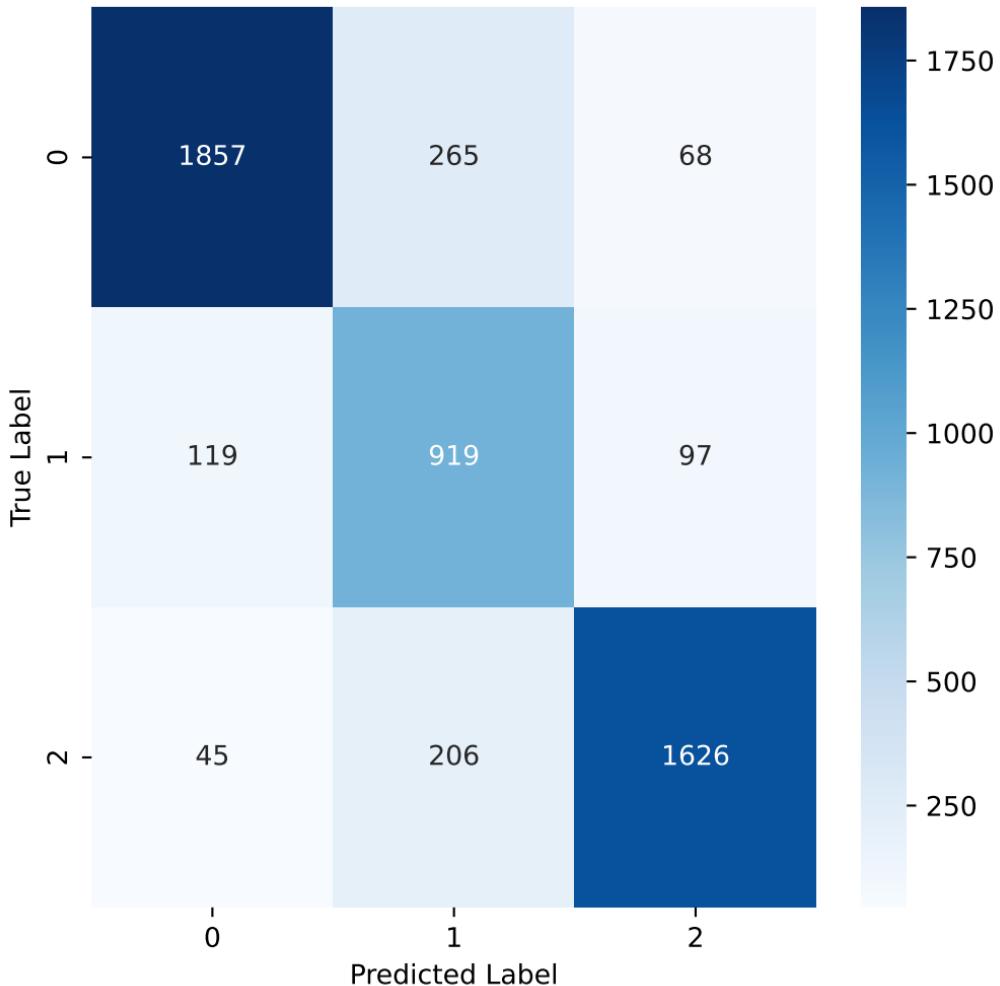
SHAP Dependence Plot for aridity_index_lag3, Class 2 - Sumatra (Train_Val Set)



SHAP Dependence Plot for Class_10, Class 2 - Sumatra (Train_Val Set)



Confusion Matrix - Nusa Tenggara (Train_Val Set)

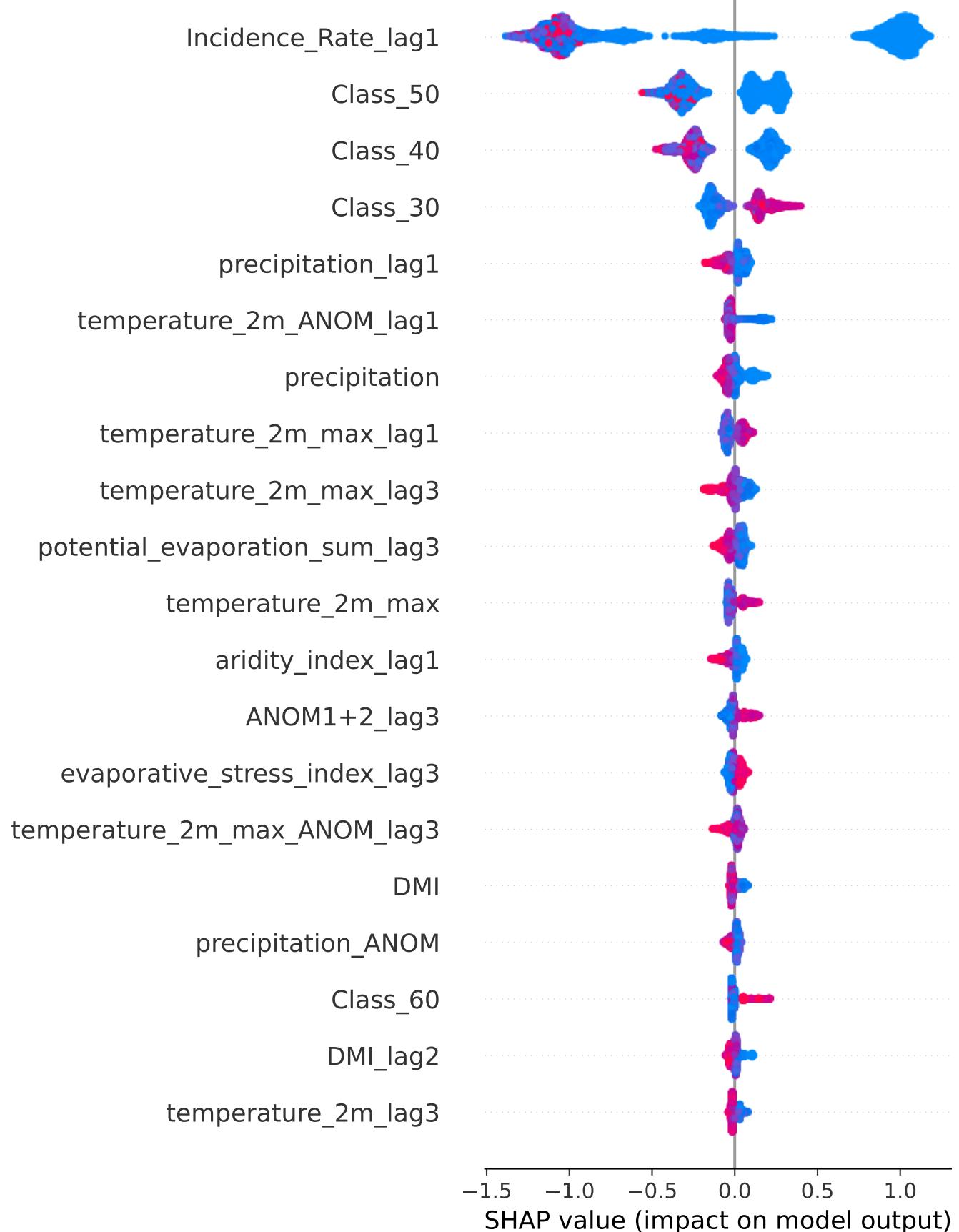


SHAP Beeswarm Plot for Class 0 - Nusa Tenggara (Train_Val_Set)

High

Low

Feature value

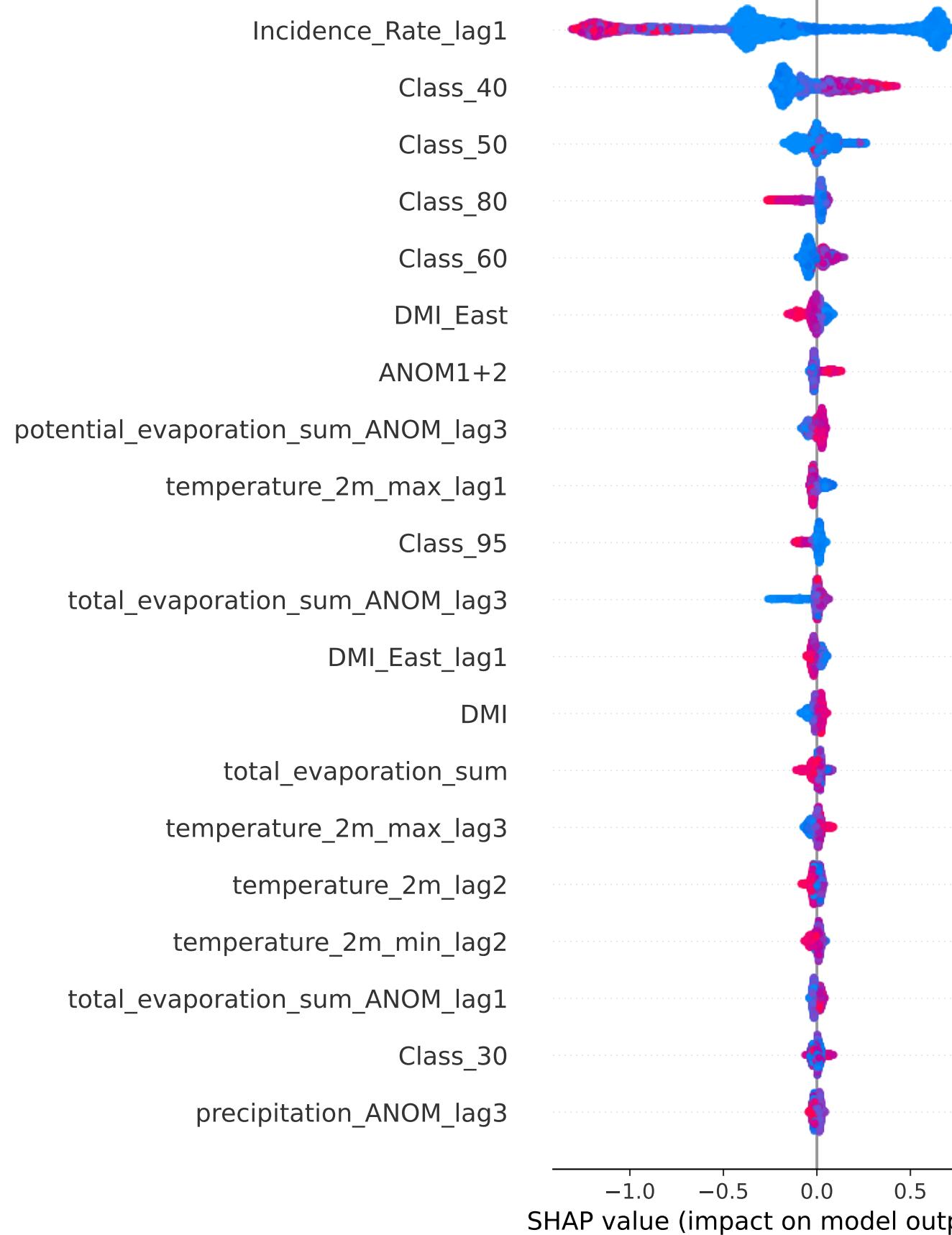


SHAP Beeswarm Plot for Class 1 - Nusa Tenggara (Train_Val Set)

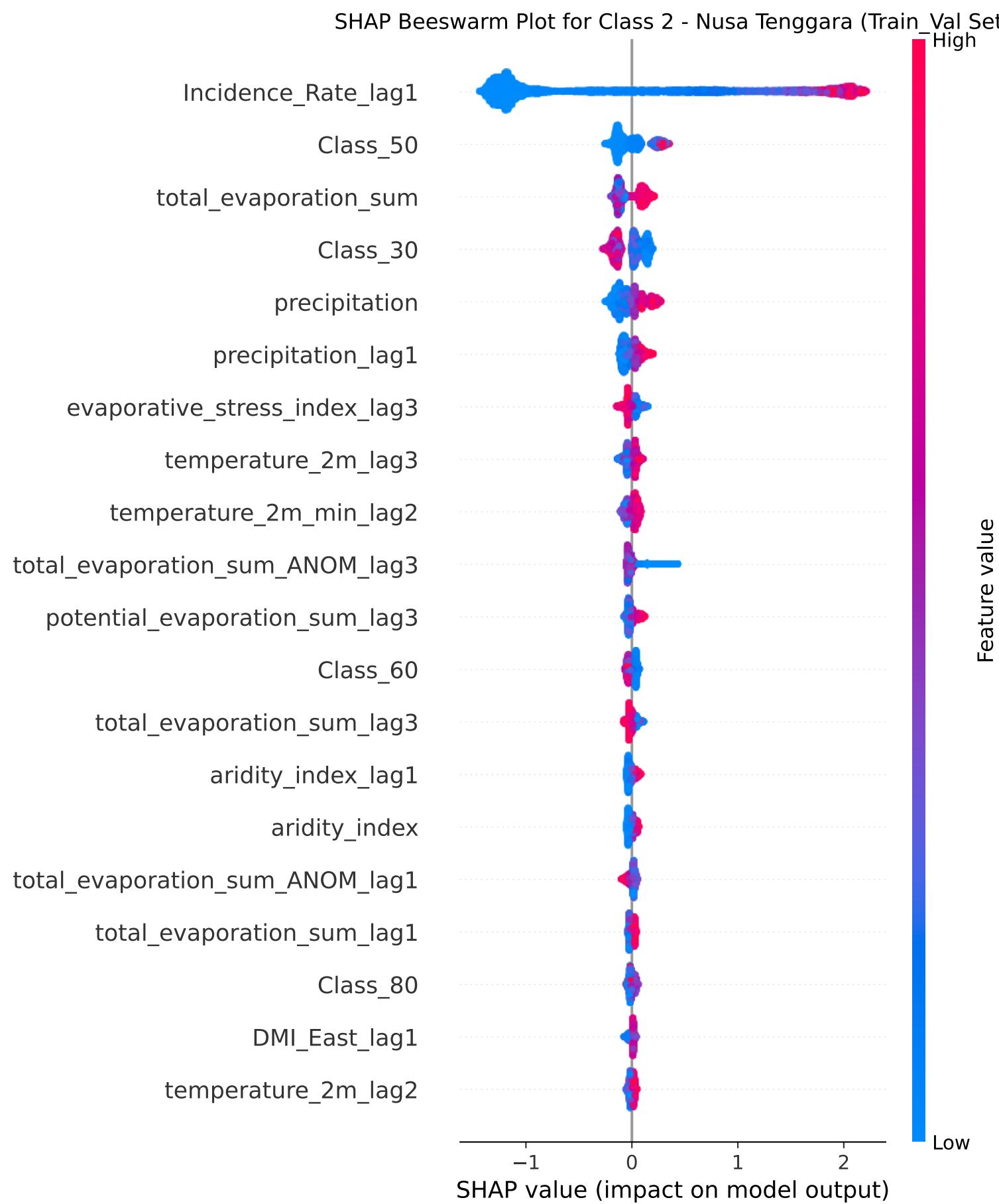
High

Feature value

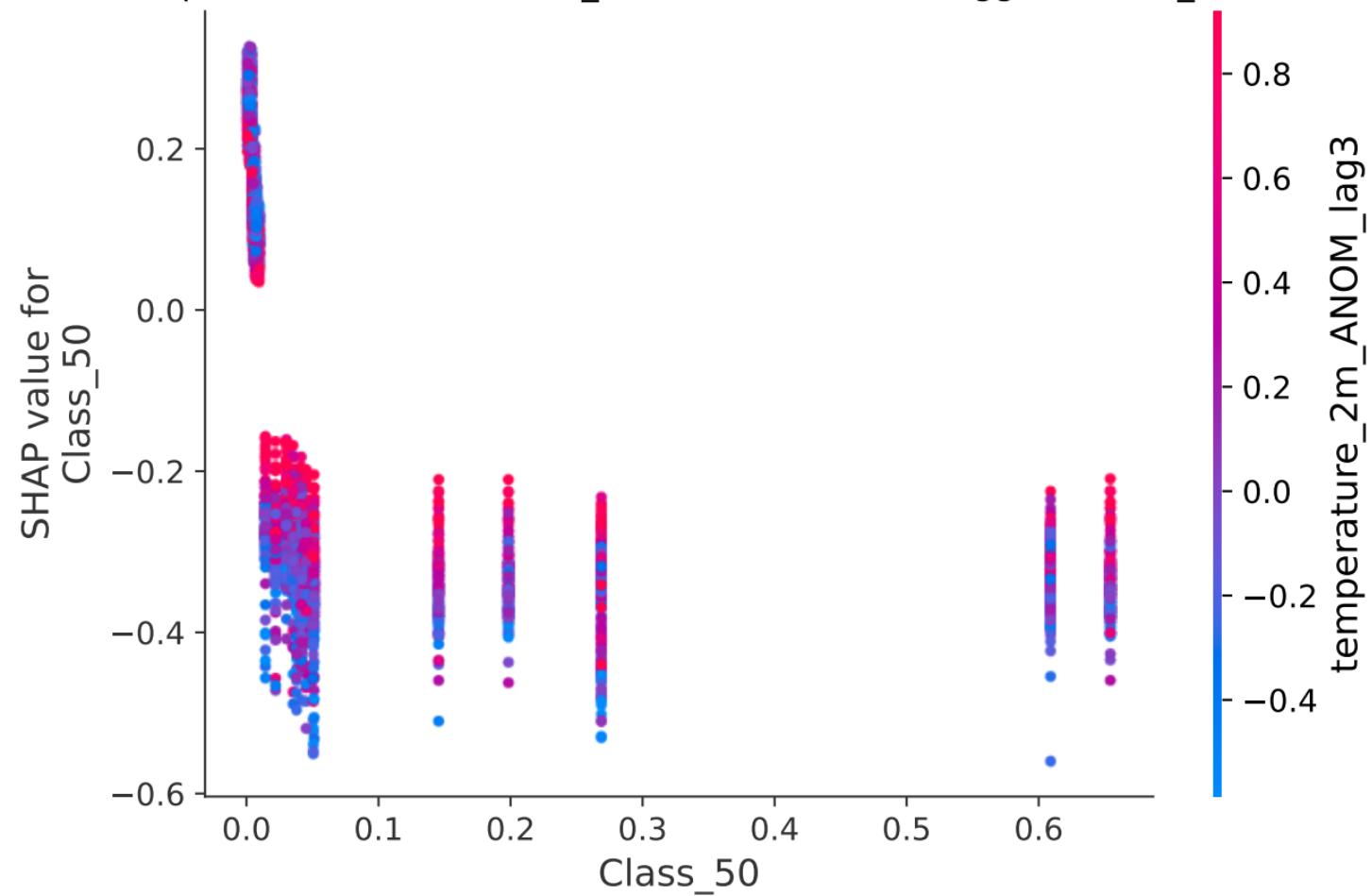
Low



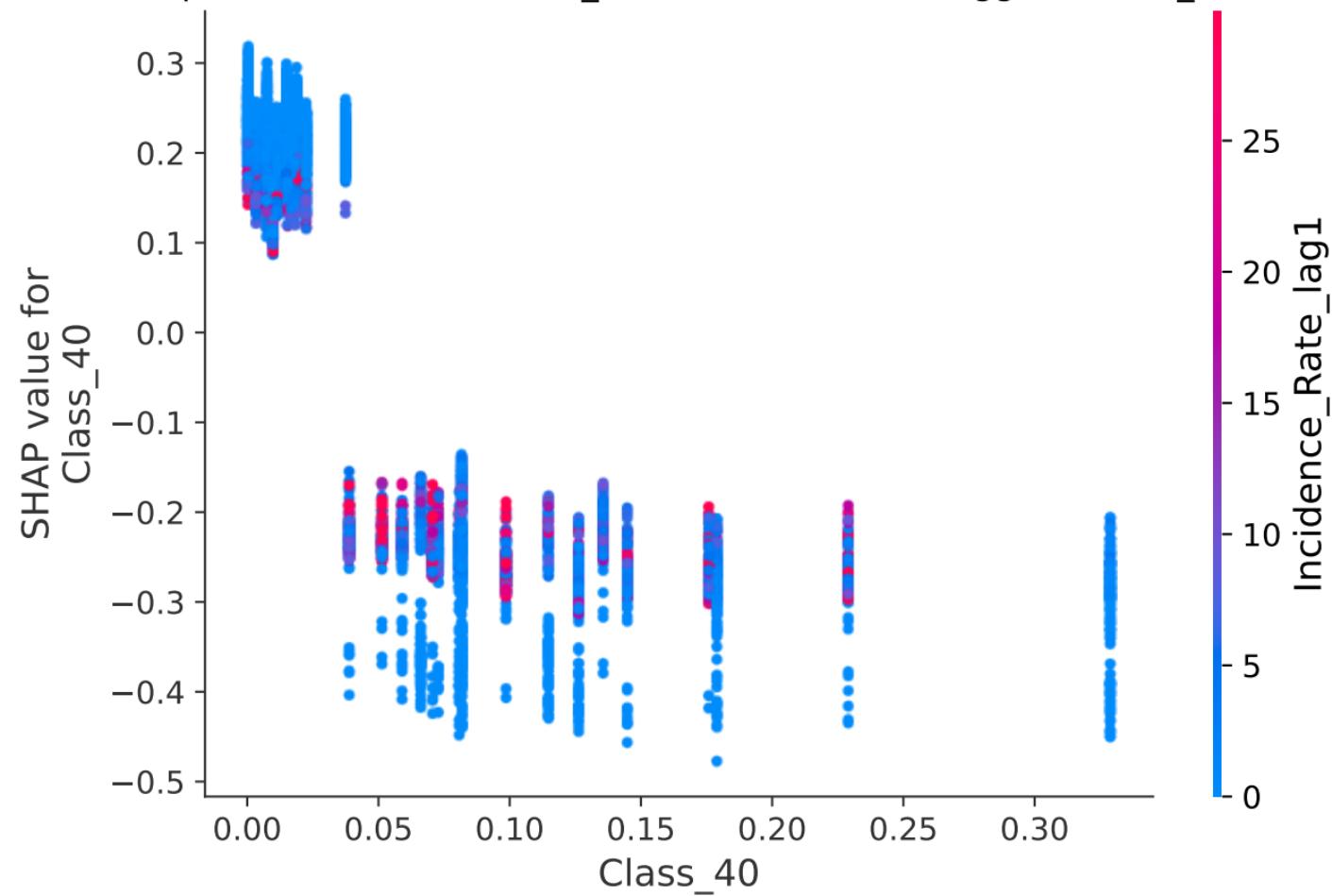
SHAP Beeswarm Plot for Class 2 - Nusa Tenggara (Train_Val Set)



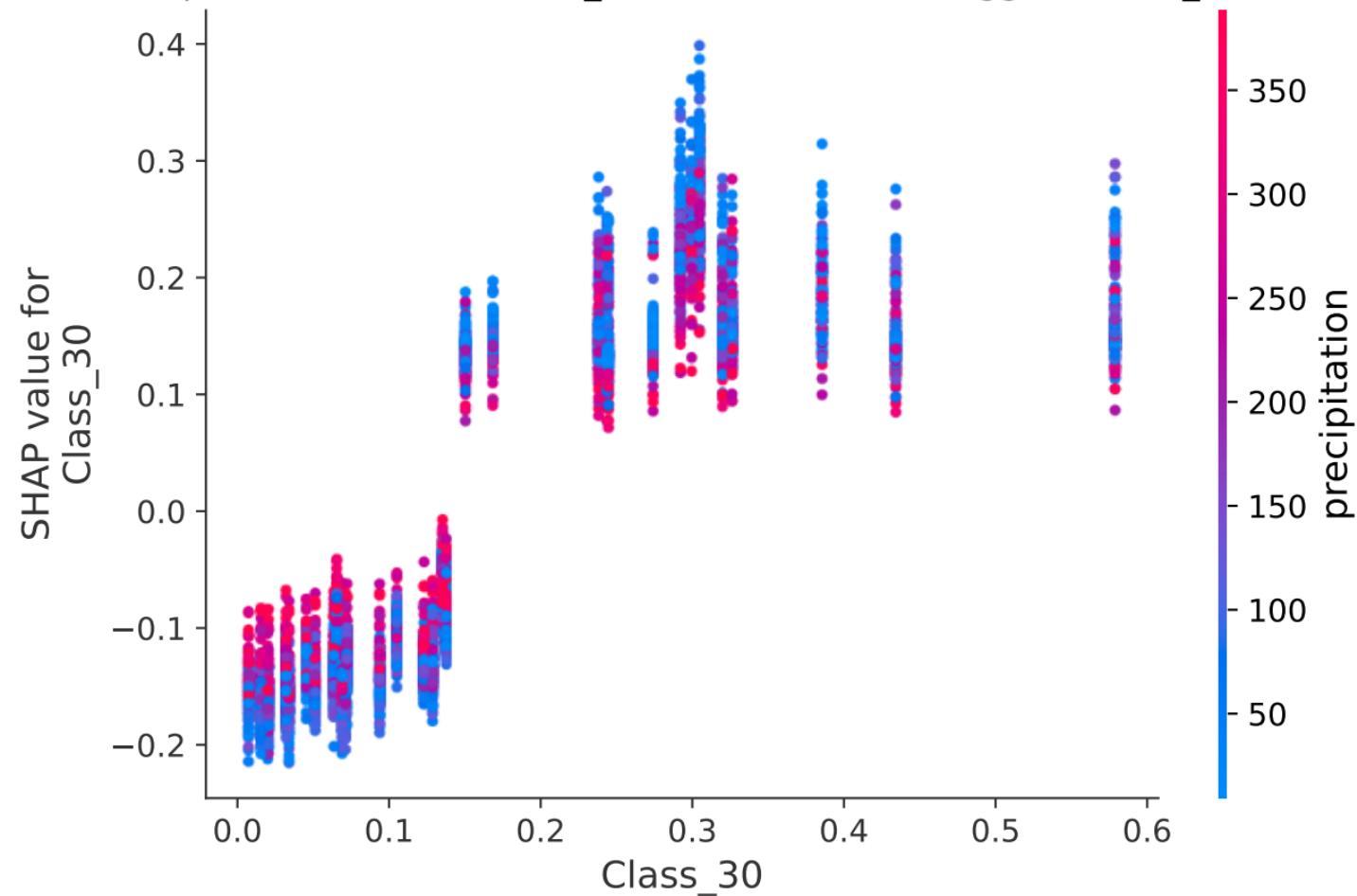
SHAP Dependence Plot for Class_50, Class 0 - Nusa Tenggara (Train_Val Set)



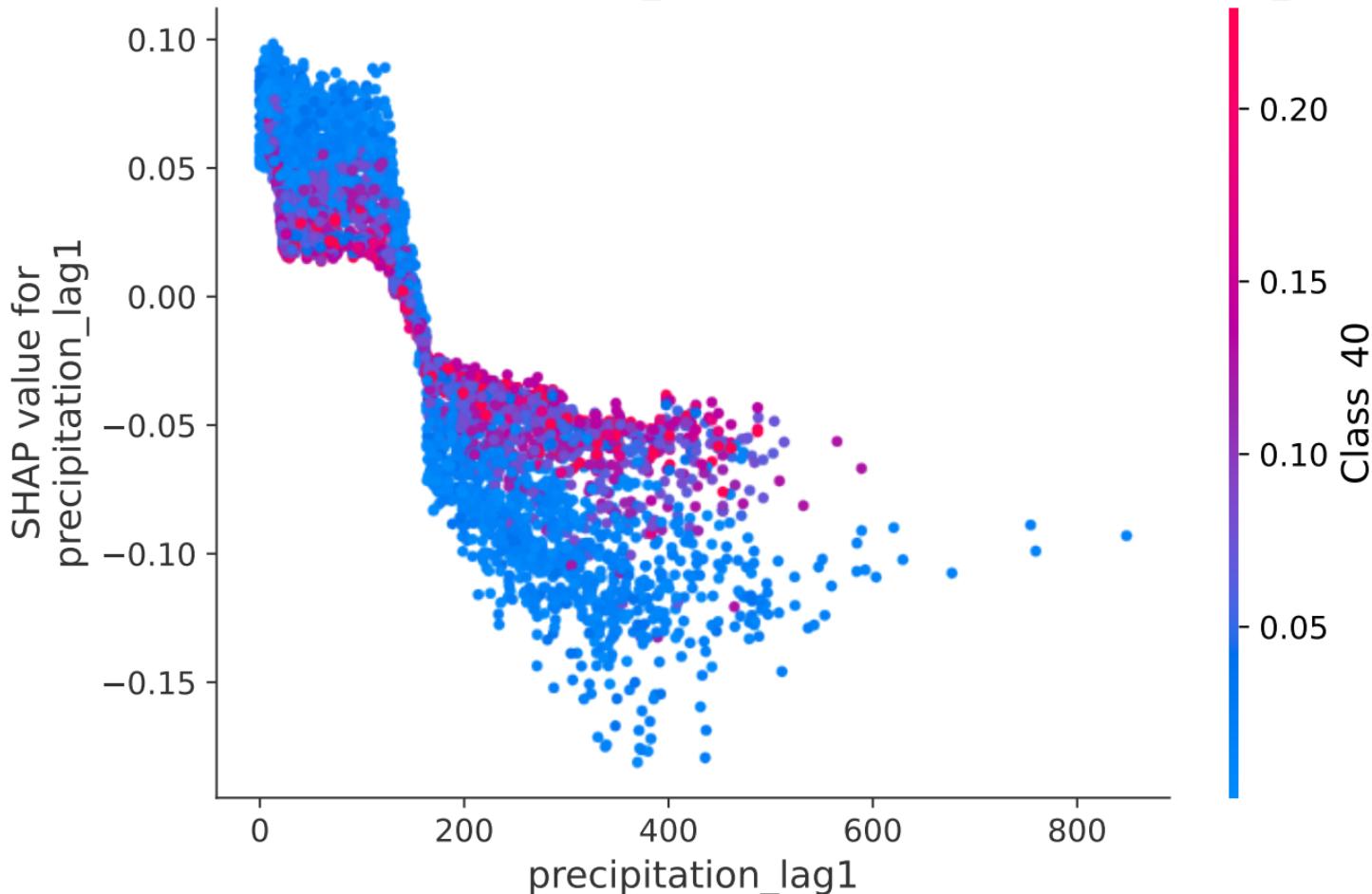
SHAP Dependence Plot for Class_40, Class 0 - Nusa Tenggara (Train_Val Set)



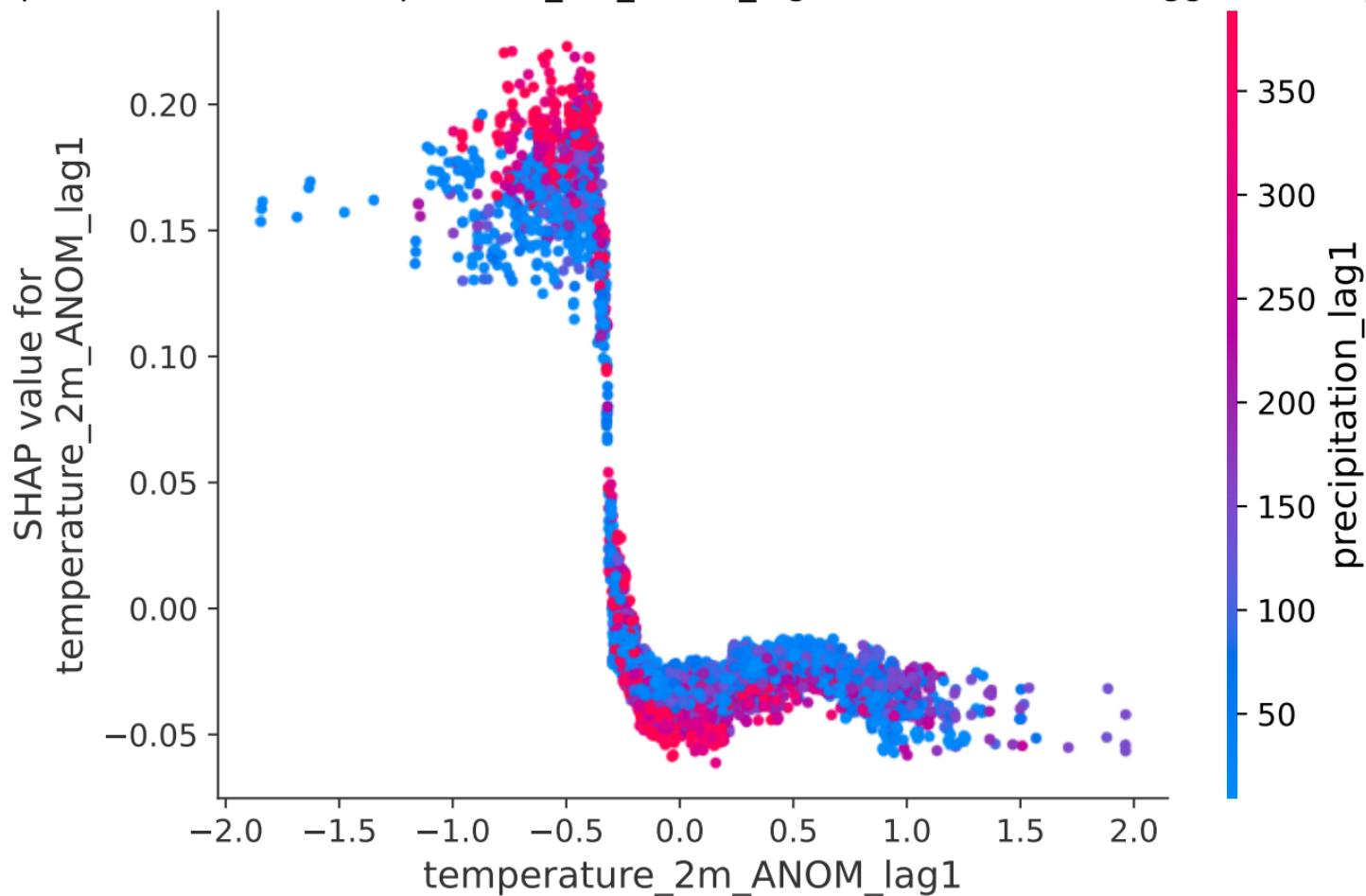
SHAP Dependence Plot for Class_30, Class 0 - Nusa Tenggara (Train_Val Set)



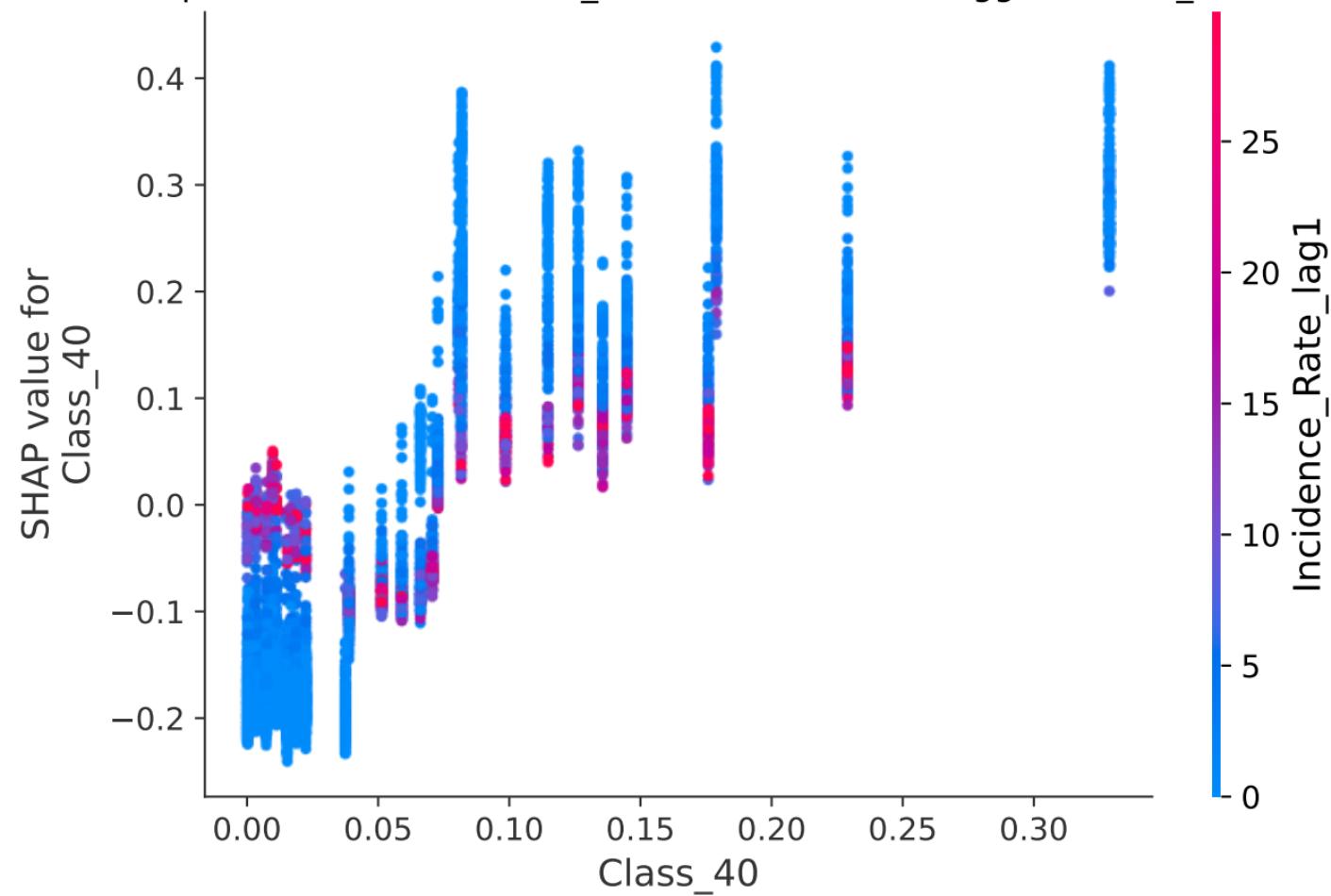
SHAP Dependence Plot for precipitation_lag1, Class 0 - Nusa Tenggara (Train_Val Set)



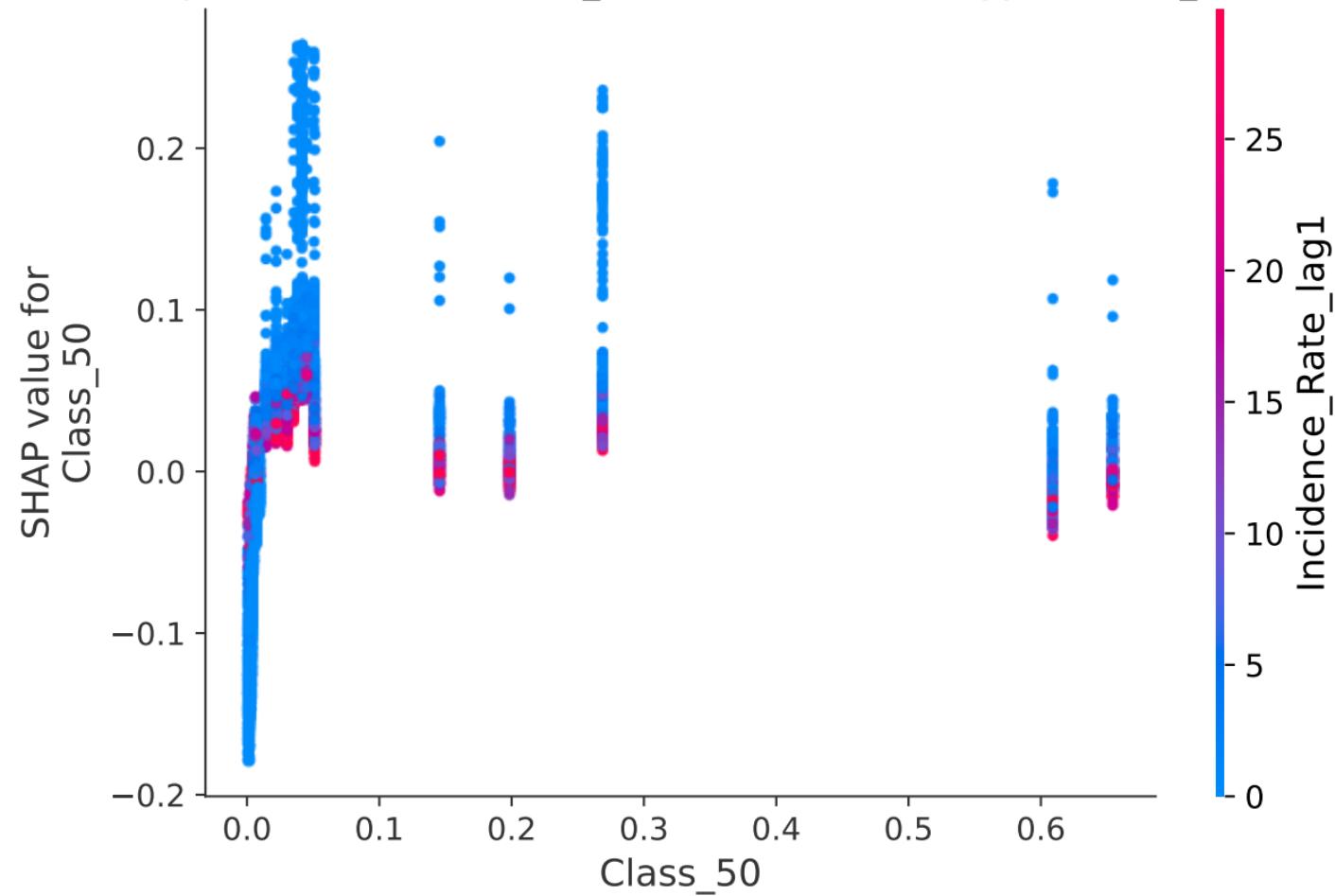
SHAP Dependence Plot for temperature_2m_ANOM_lag1, Class 0 - Nusa Tenggara (Train_Val Set)



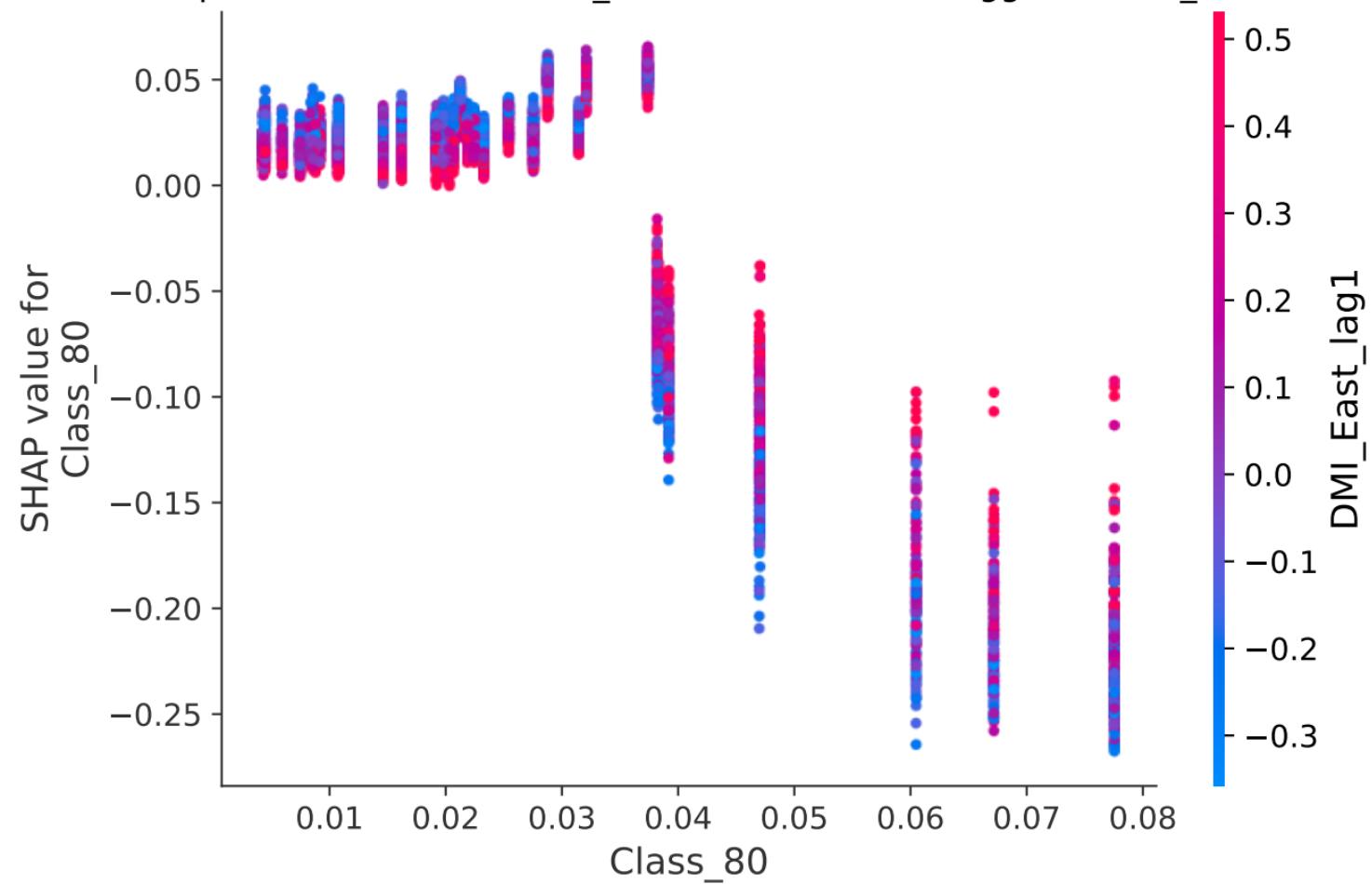
SHAP Dependence Plot for Class_40, Class 1 - Nusa Tenggara (Train_Val Set)



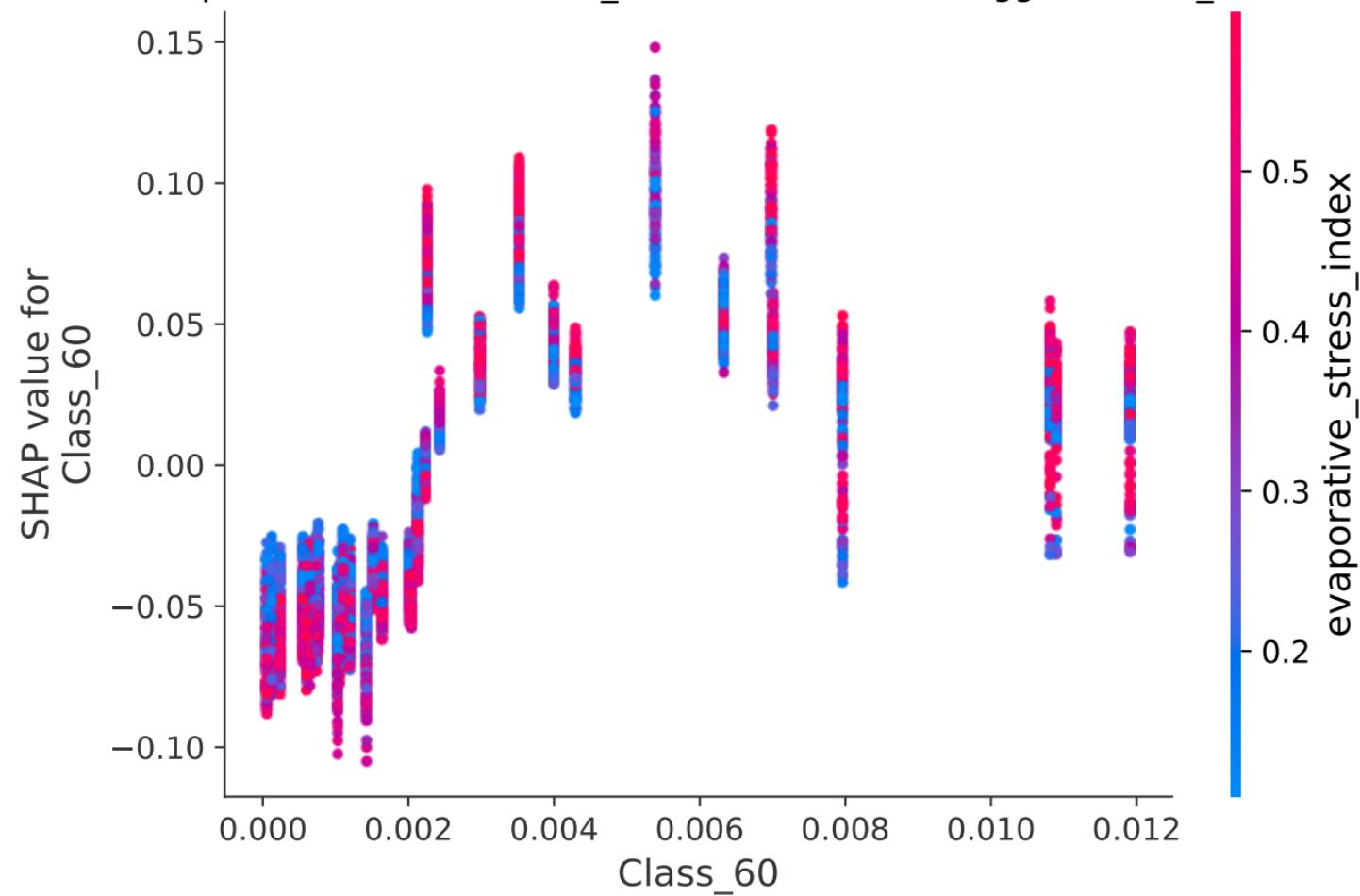
SHAP Dependence Plot for Class_50, Class 1 - Nusa Tenggara (Train_Val Set)



SHAP Dependence Plot for Class_80, Class 1 - Nusa Tenggara (Train_Val Set)



SHAP Dependence Plot for Class_60, Class 1 - Nusa Tenggara (Train_Val Set)



SHAP Dependence Plot for DMI_East, Class 1 - Nusa Tenggara (Train_Val Set)

SHAP value for
DMI_East

0.10

0.05

0.00

-0.05

-0.10

-0.15

-0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8

DMI_East

0.4

0.2

0.0

-0.2

-0.4

DMI_lag3

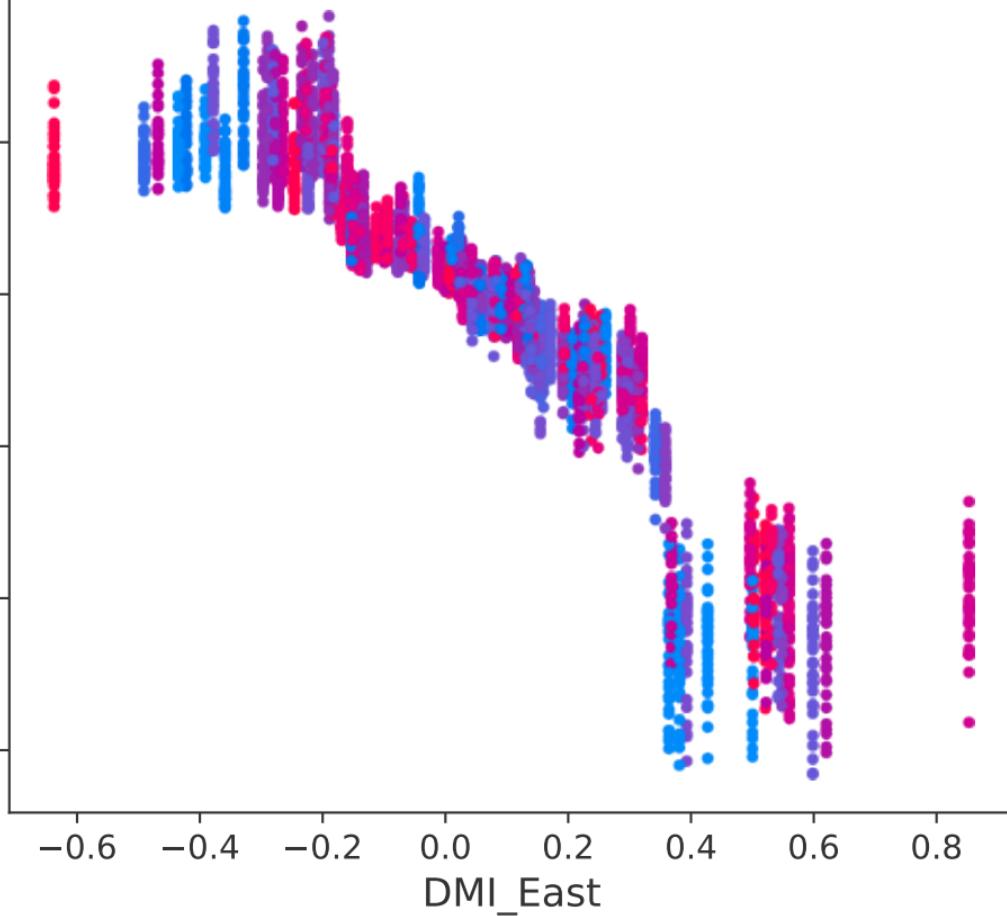
0.4

0.2

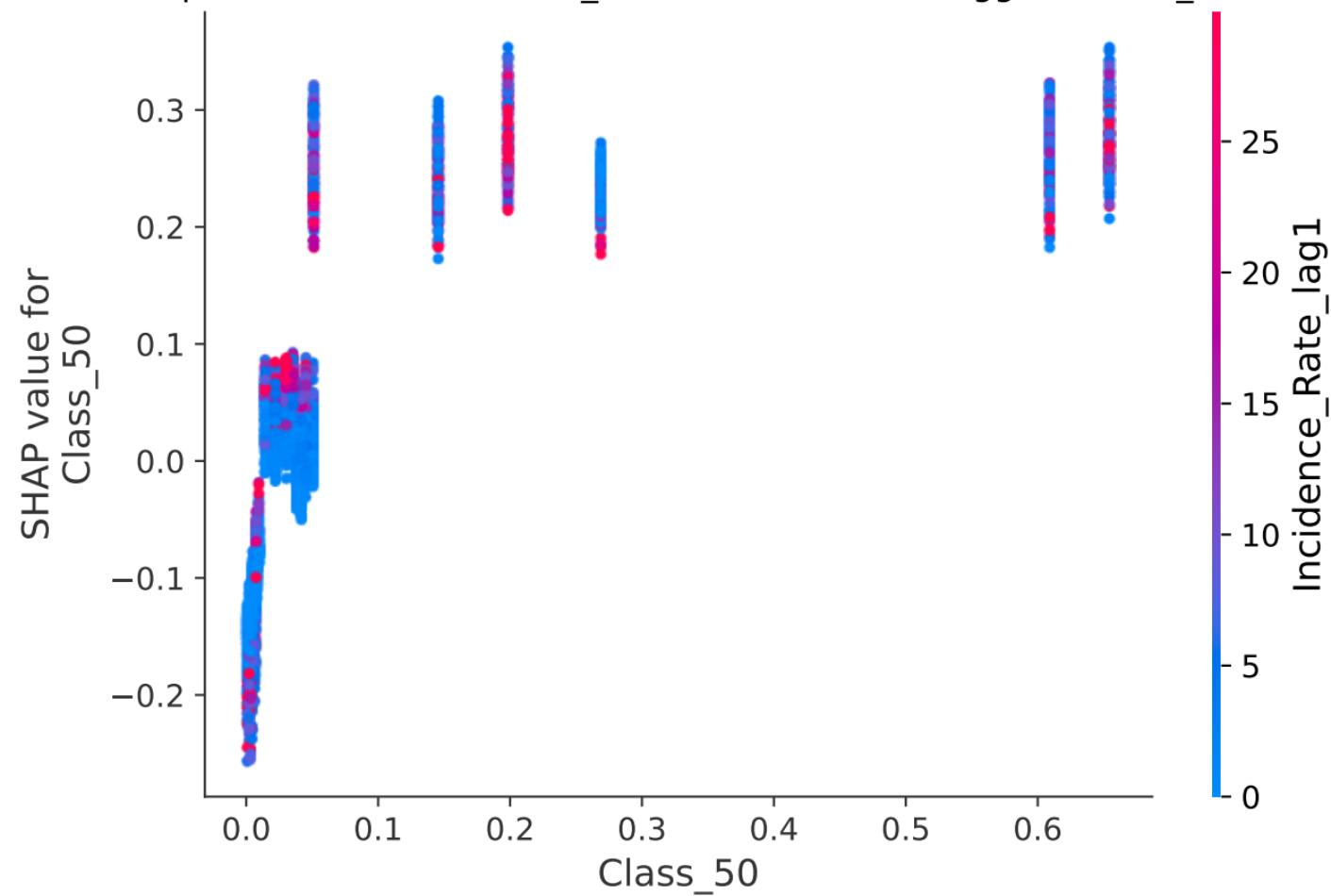
0.0

-0.2

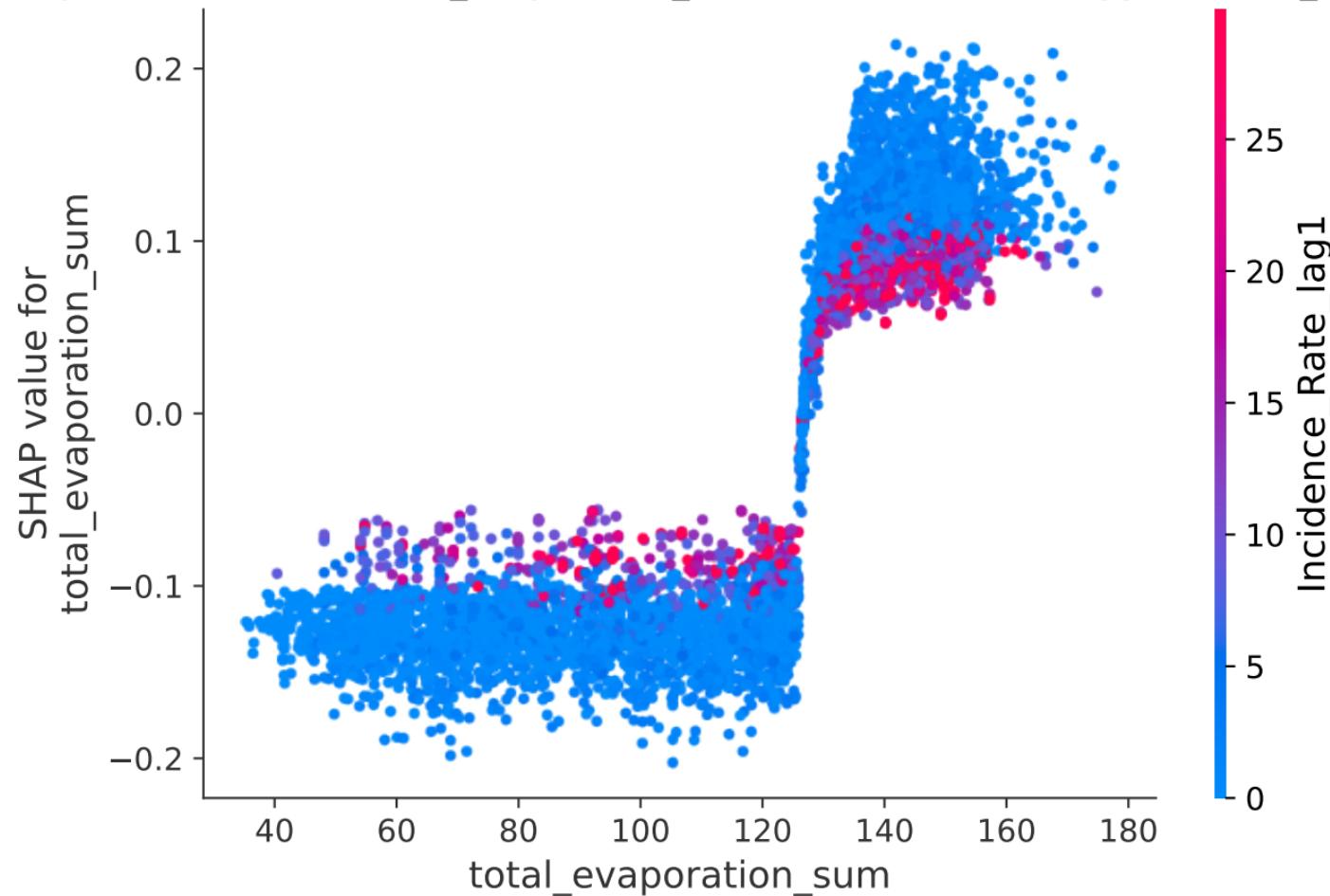
-0.4



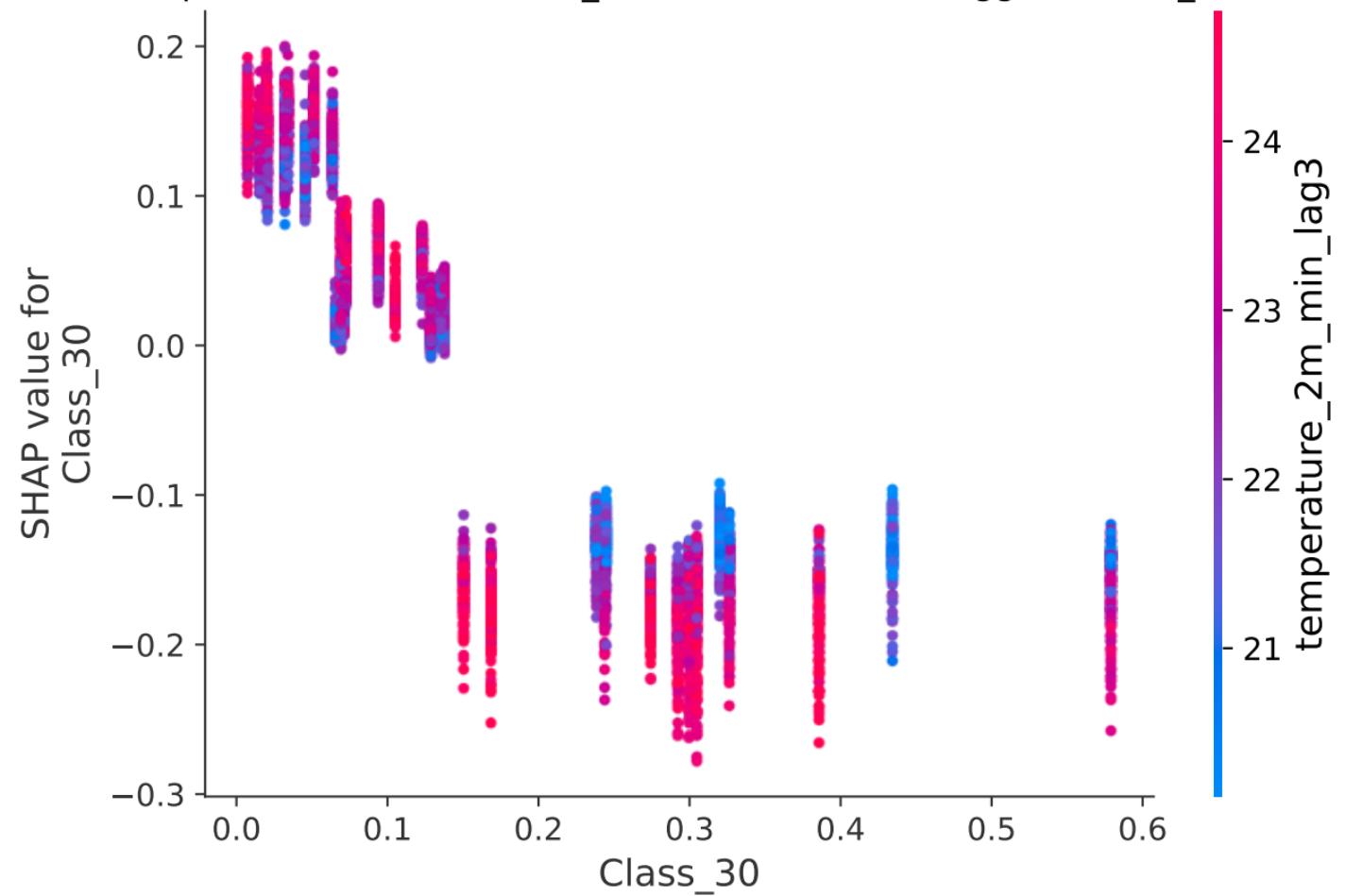
SHAP Dependence Plot for Class_50, Class 2 - Nusa Tenggara (Train_Val Set)



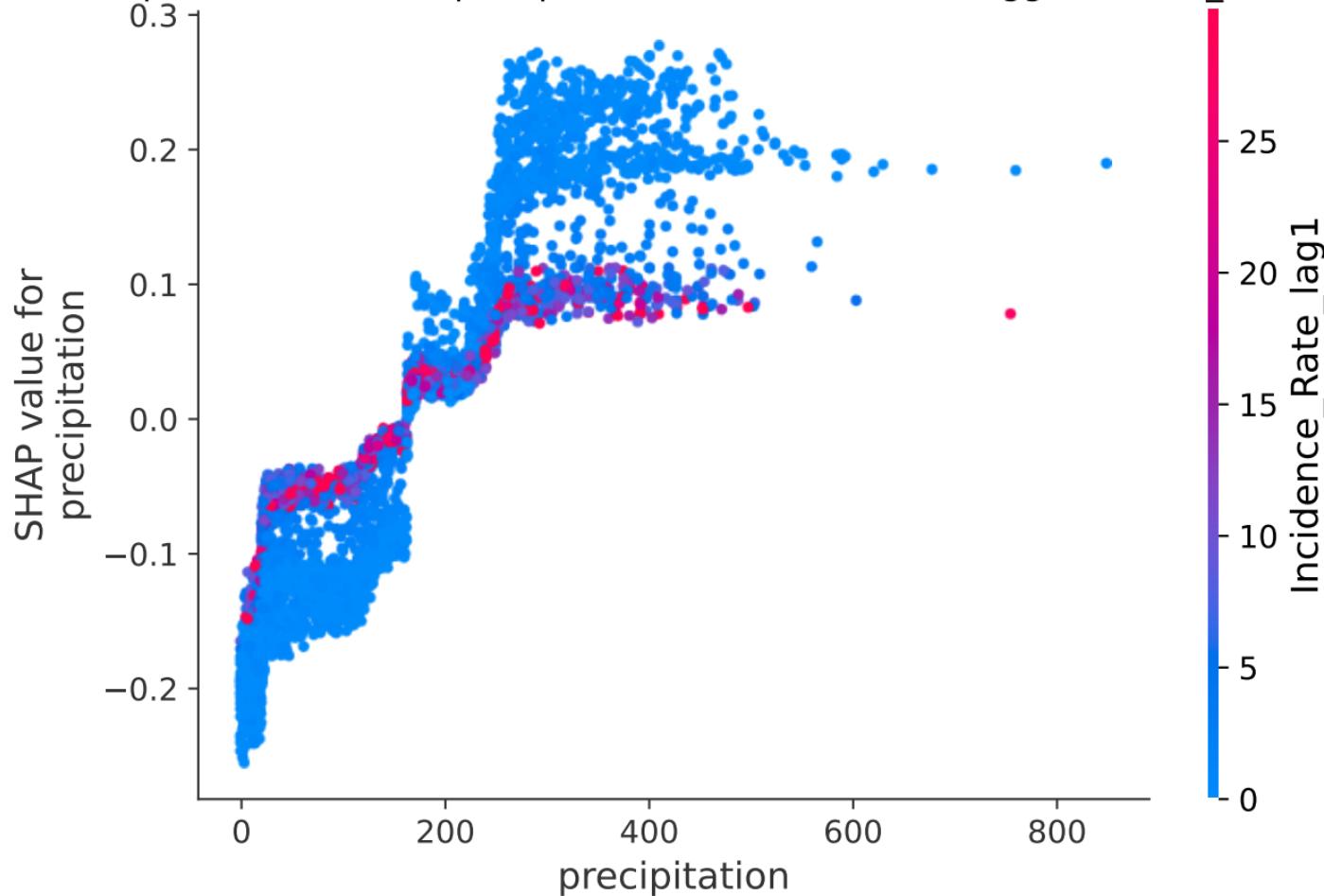
SHAP Dependence Plot for total_evaporation_sum, Class 2 - Nusa Tenggara (Train_Val Set)



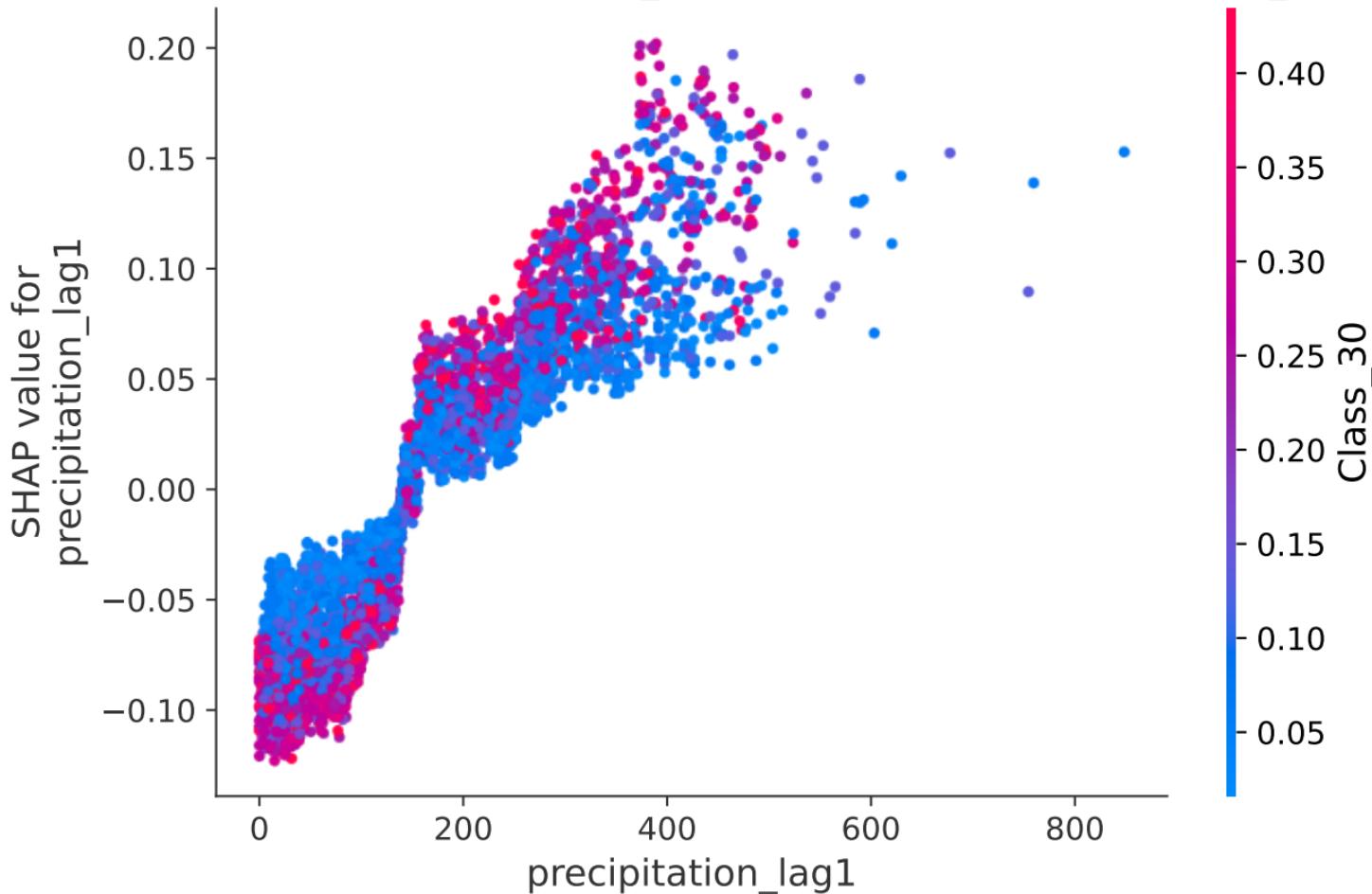
SHAP Dependence Plot for Class_30, Class 2 - Nusa Tenggara (Train_Val Set)



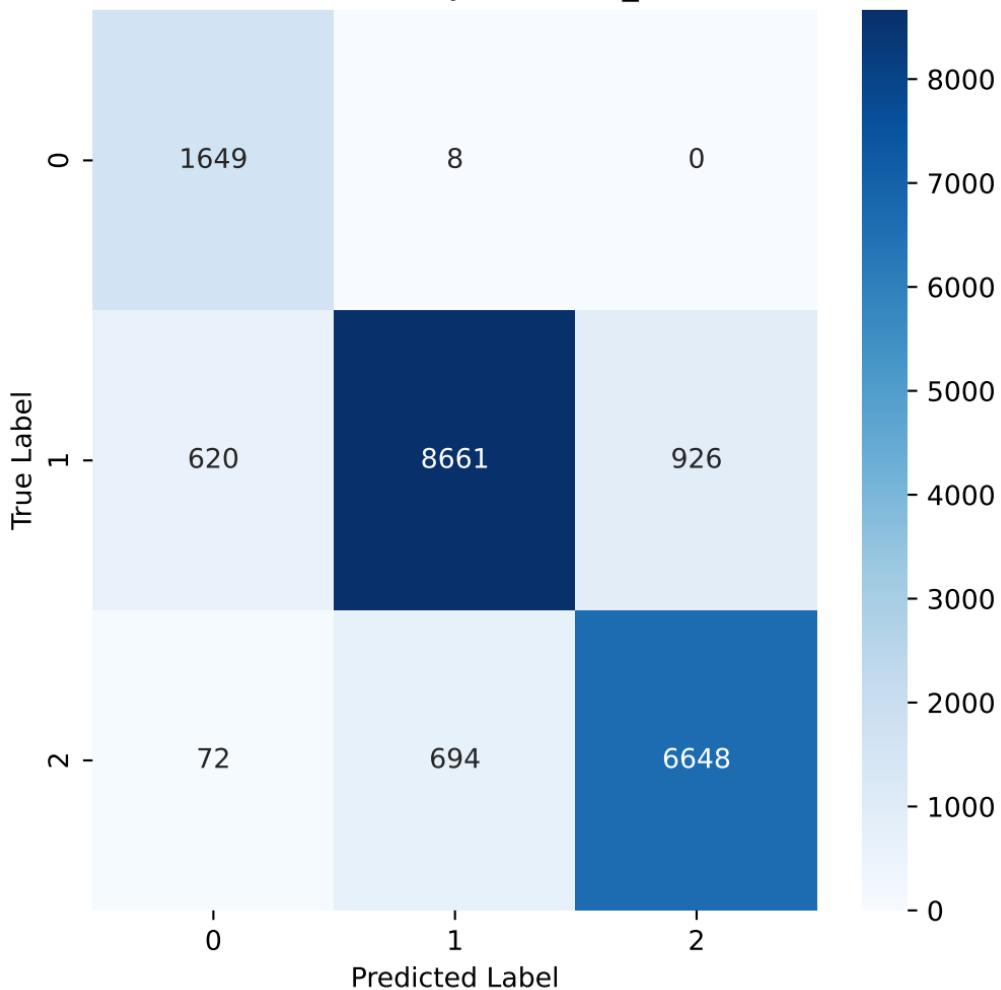
SHAP Dependence Plot for precipitation, Class 2 - Nusa Tenggara (Train_Val Set)



SHAP Dependence Plot for precipitation_lag1, Class 2 - Nusa Tenggara (Train_Val Set)



Confusion Matrix - Java (Train_Val Set)

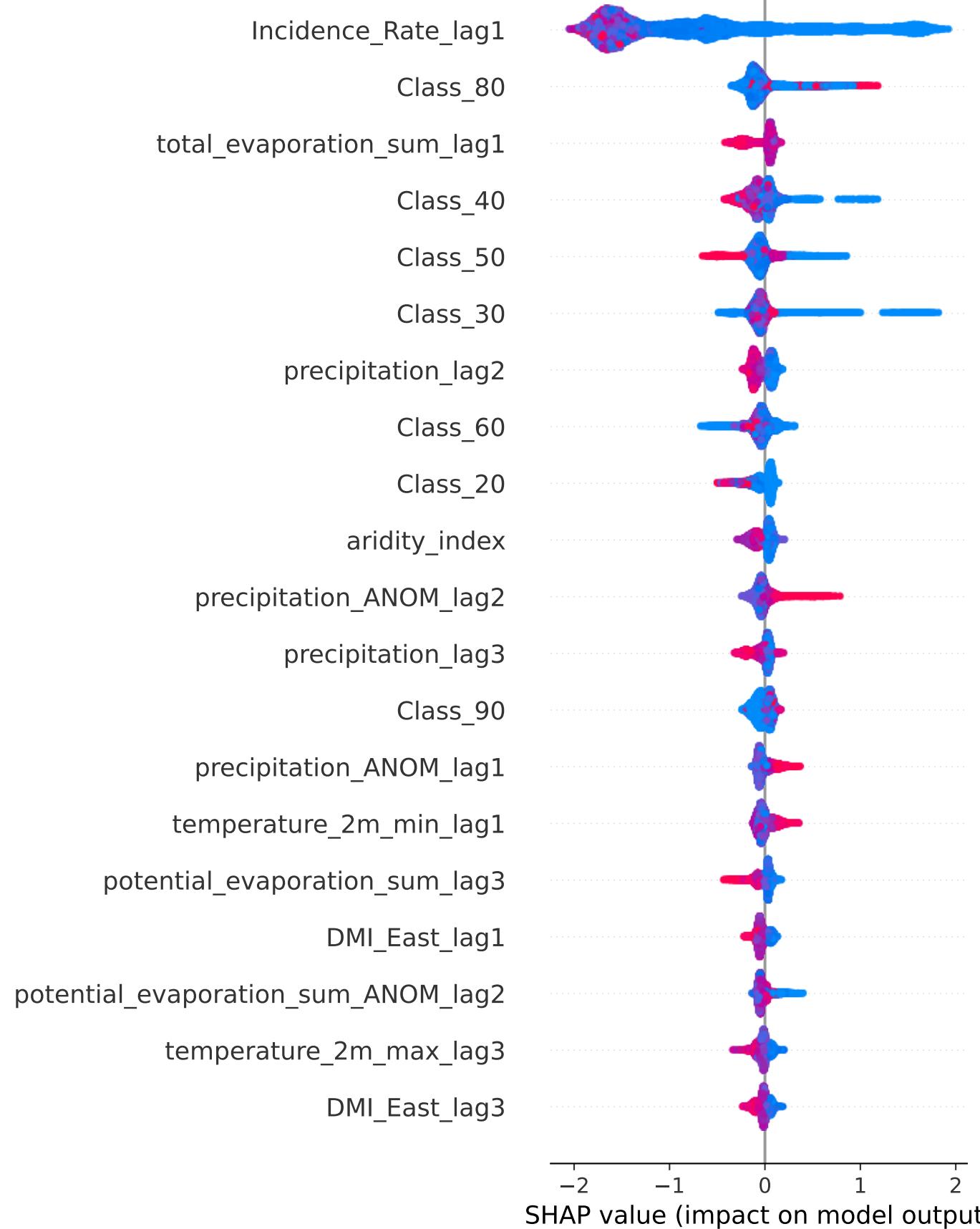


SHAP Beeswarm Plot for Class 0 - Java (Train_Val Set)

High

Feature value

Low



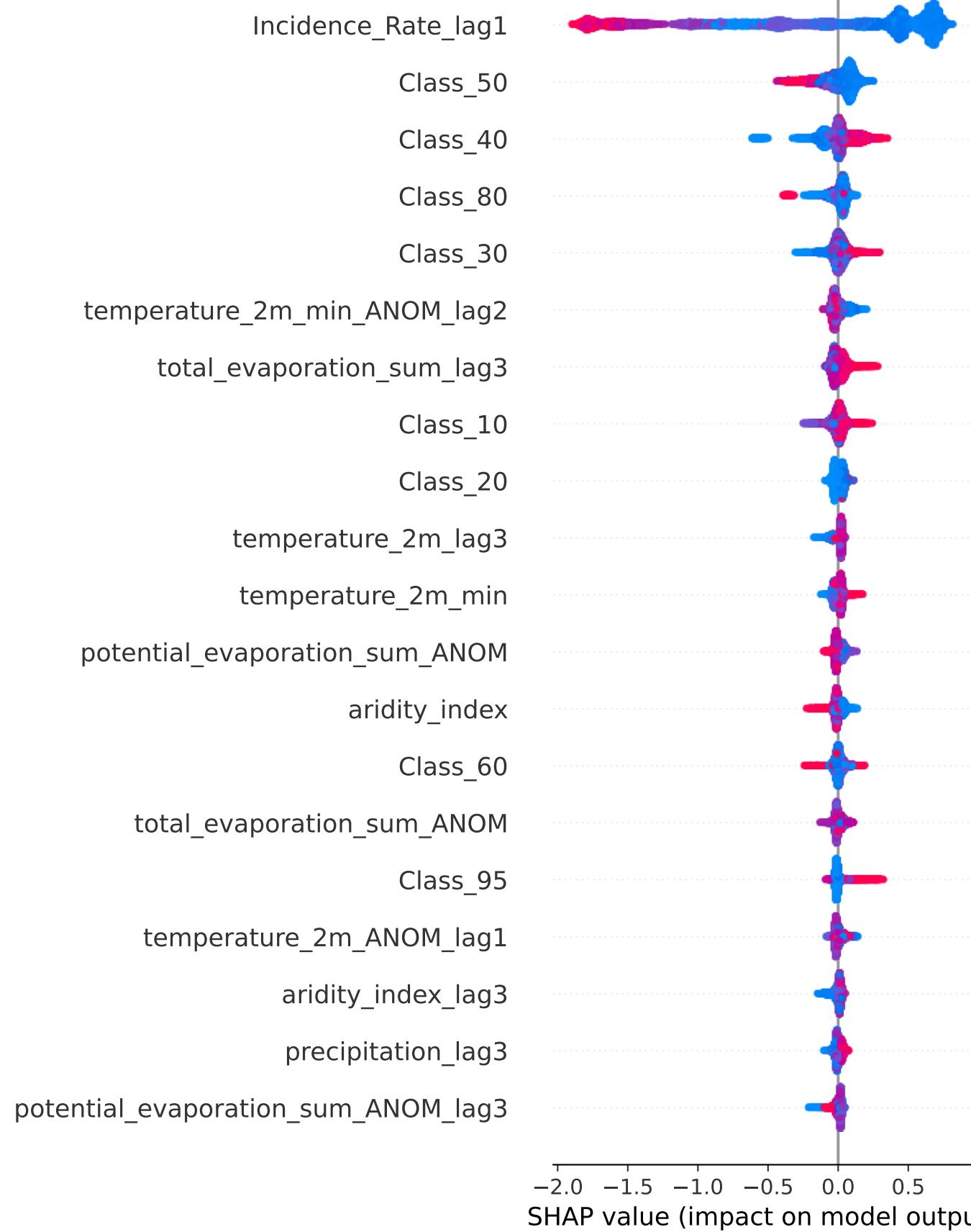
SHAP Beeswarm Plot for Class 1 - Java (Train_Val Set)

High

Feature value

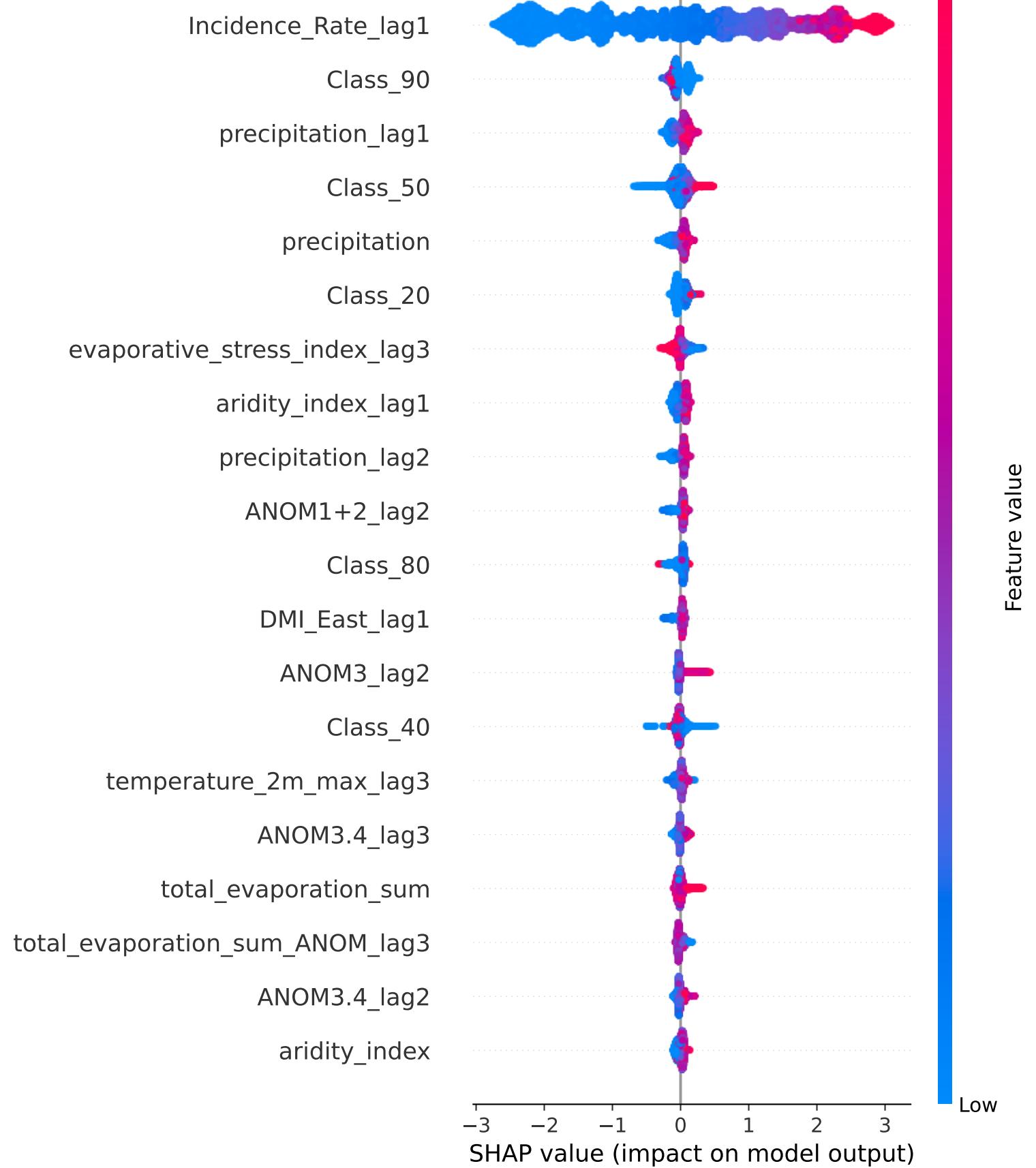
Low

SHAP value (impact on model output)

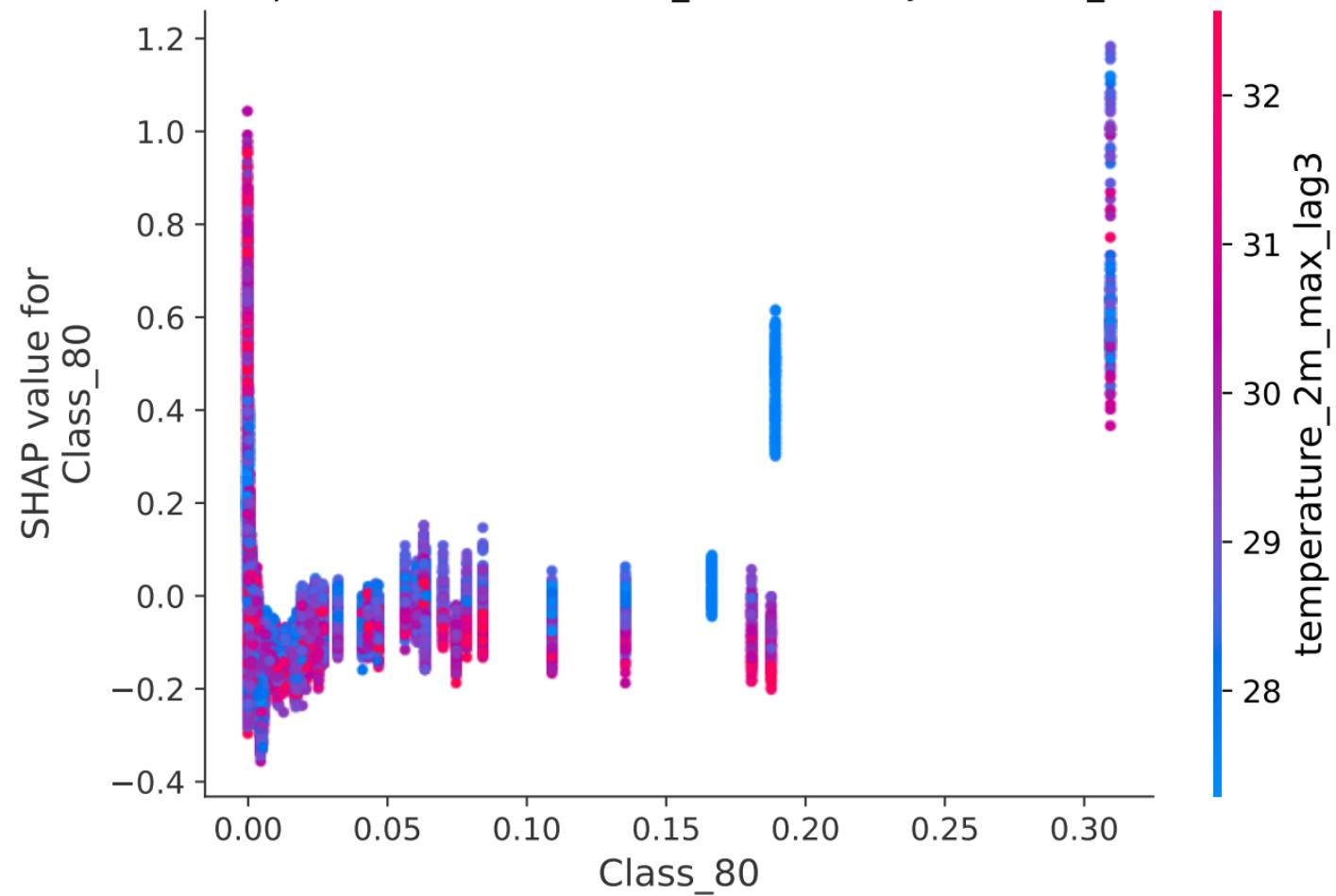


SHAP Beeswarm Plot for Class 2 - Java (Train_Val Set)

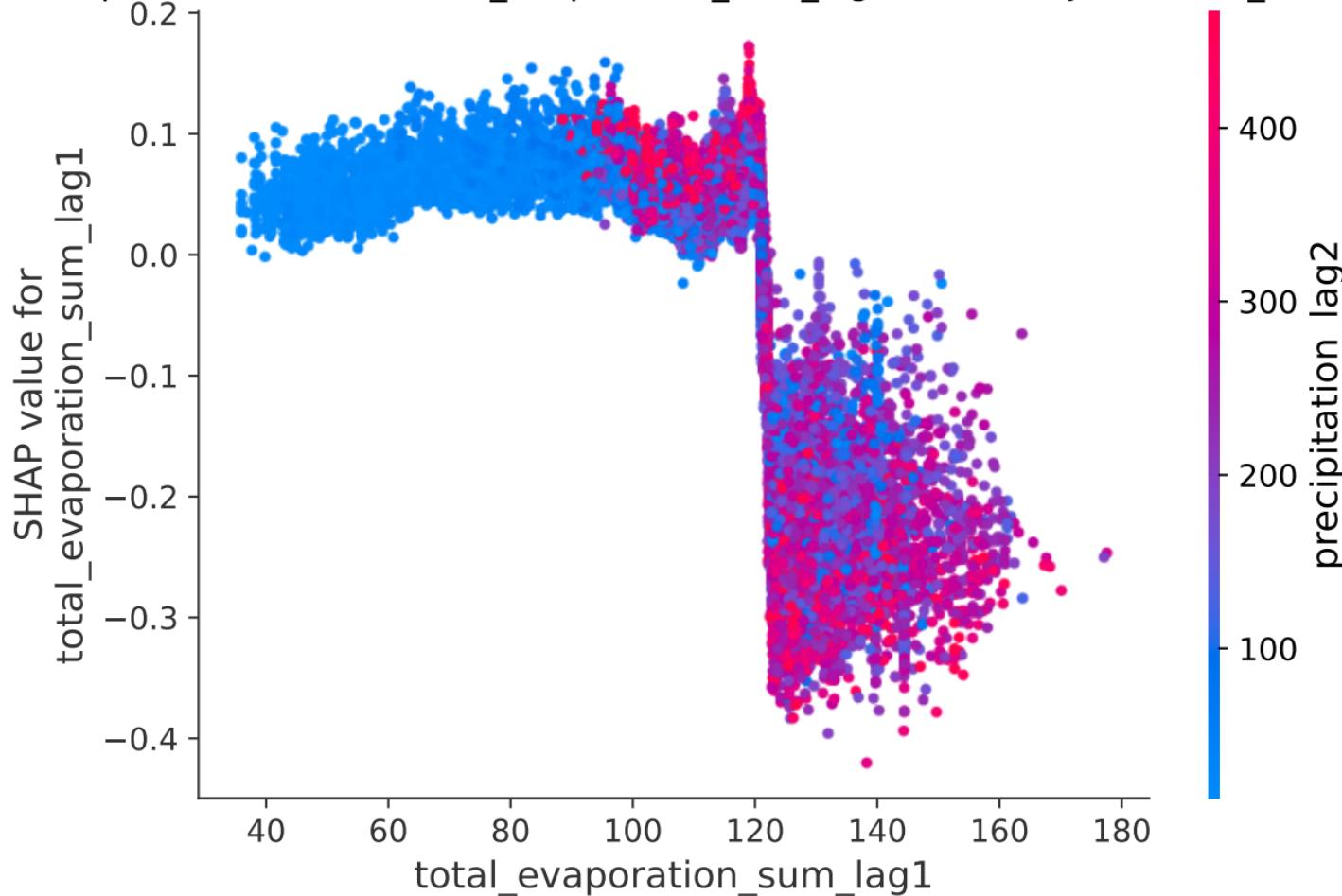
High



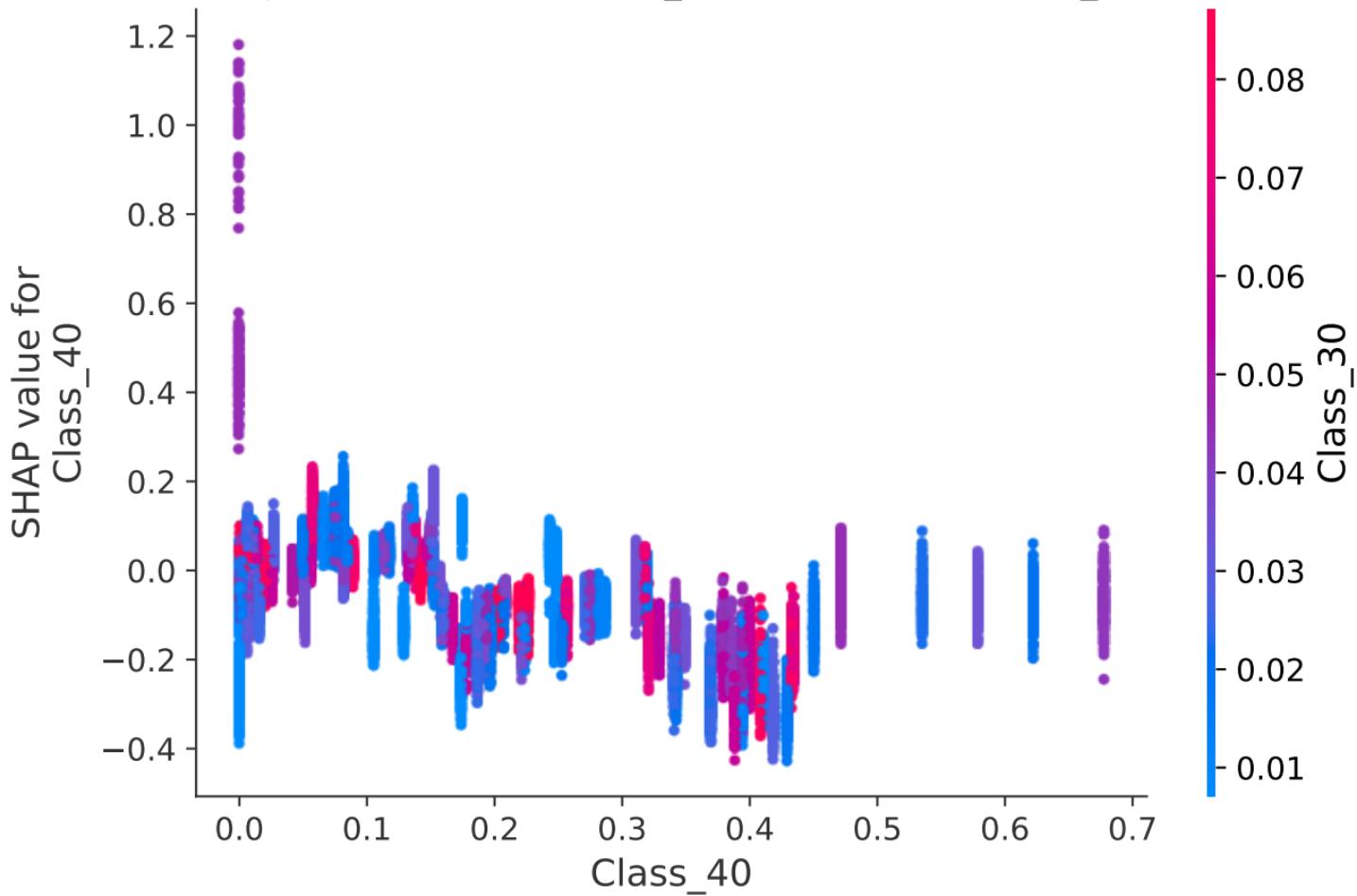
SHAP Dependence Plot for Class_80, Class 0 - Java (Train_Val Set)



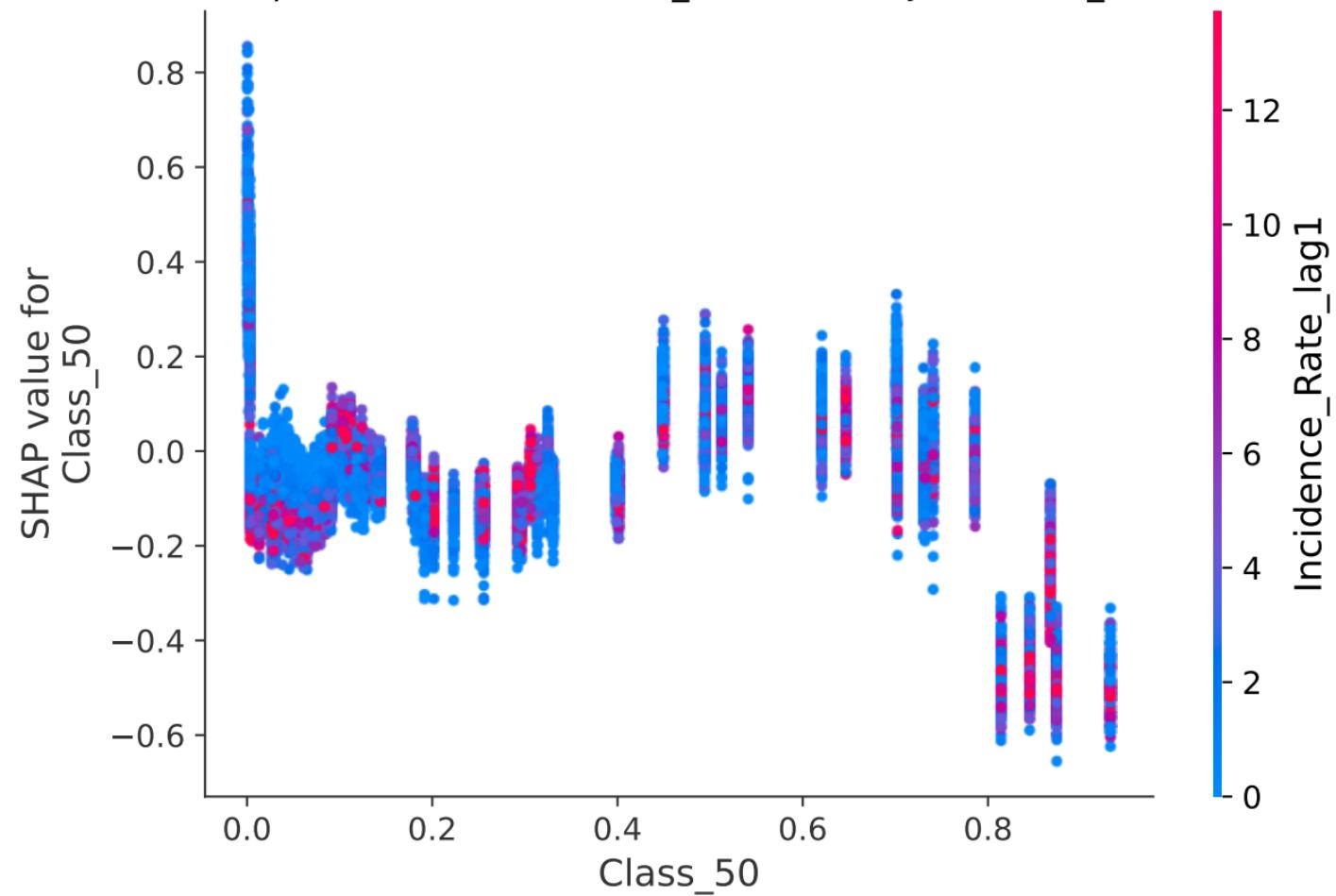
SHAP Dependence Plot for total_evaporation_sum_lag1, Class 0 - Java (Train_Val Set)



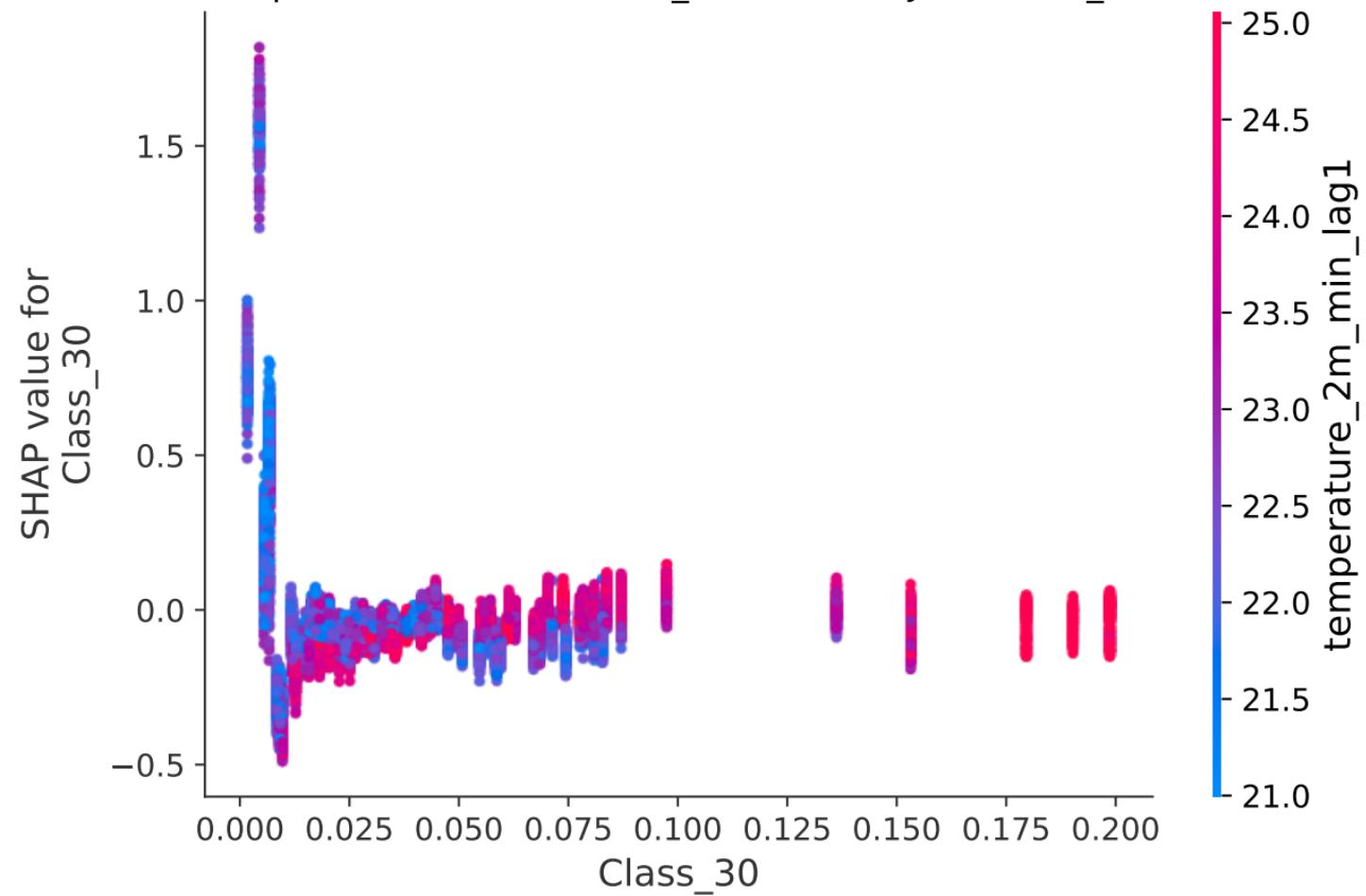
SHAP Dependence Plot for Class_40, Class 0 - Java (Train_Val Set)



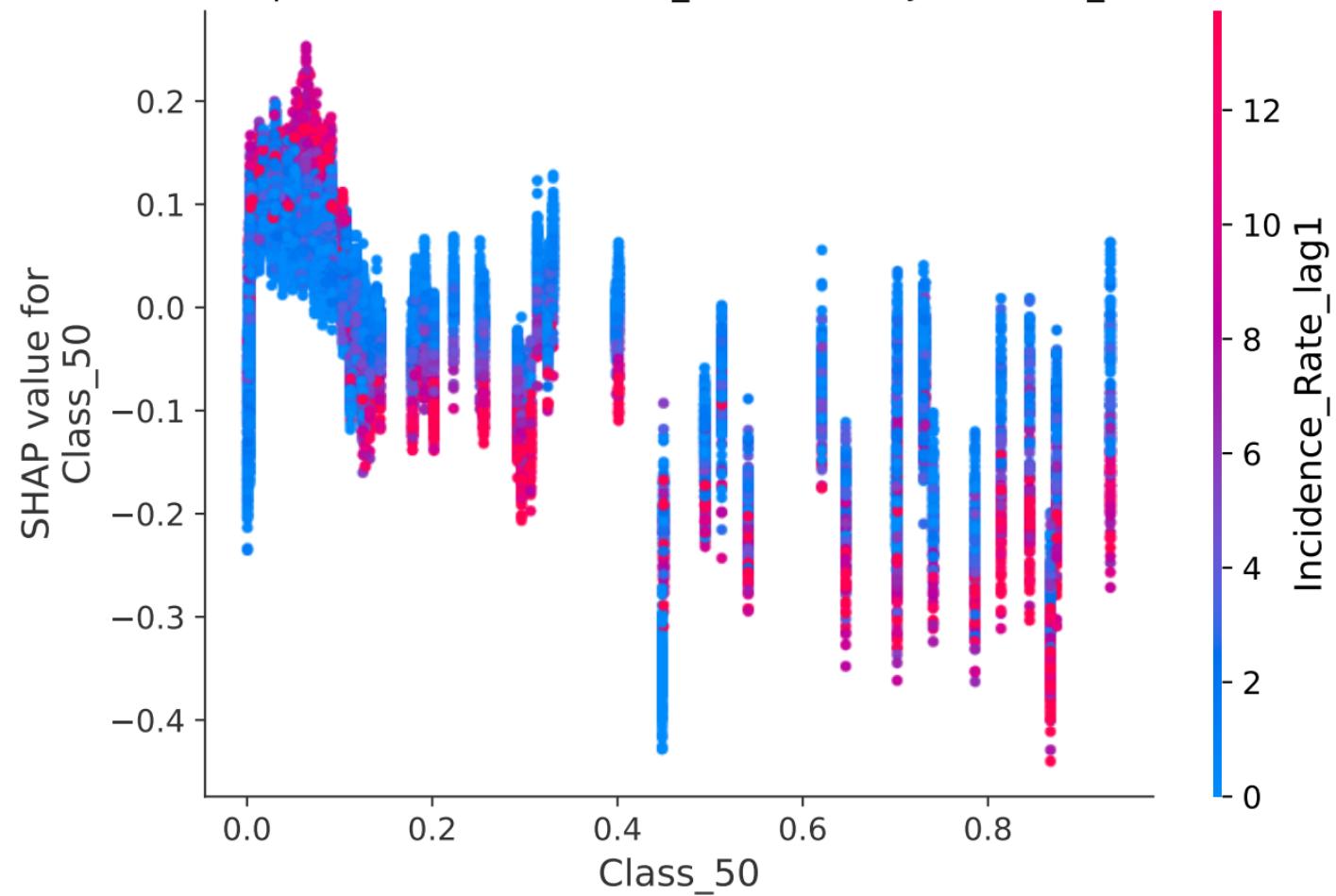
SHAP Dependence Plot for Class_50, Class 0 - Java (Train_Val Set)



SHAP Dependence Plot for Class_30, Class 0 - Java (Train_Val Set)

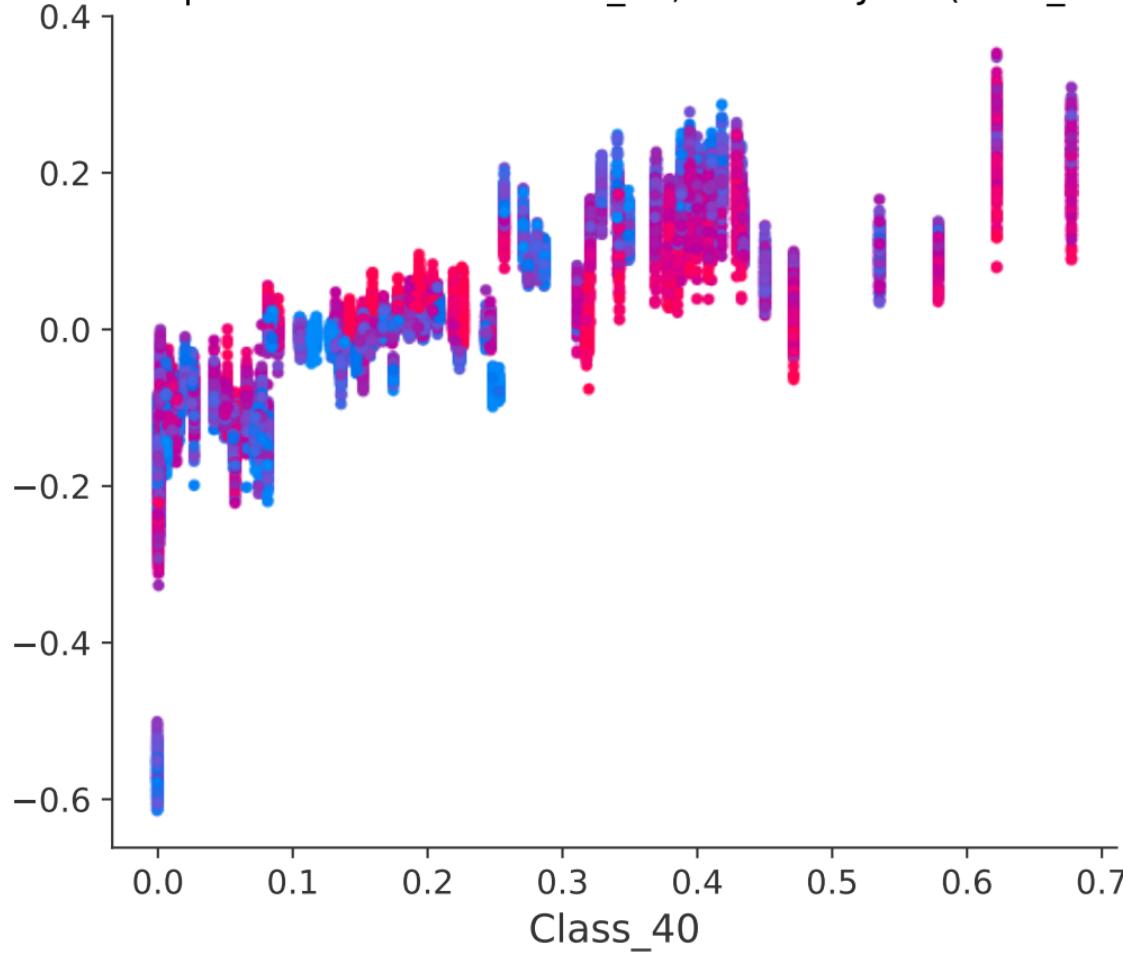


SHAP Dependence Plot for Class_50, Class 1 - Java (Train_Val Set)



SHAP Dependence Plot for Class_40, Class 1 - Java (Train_Val Set)

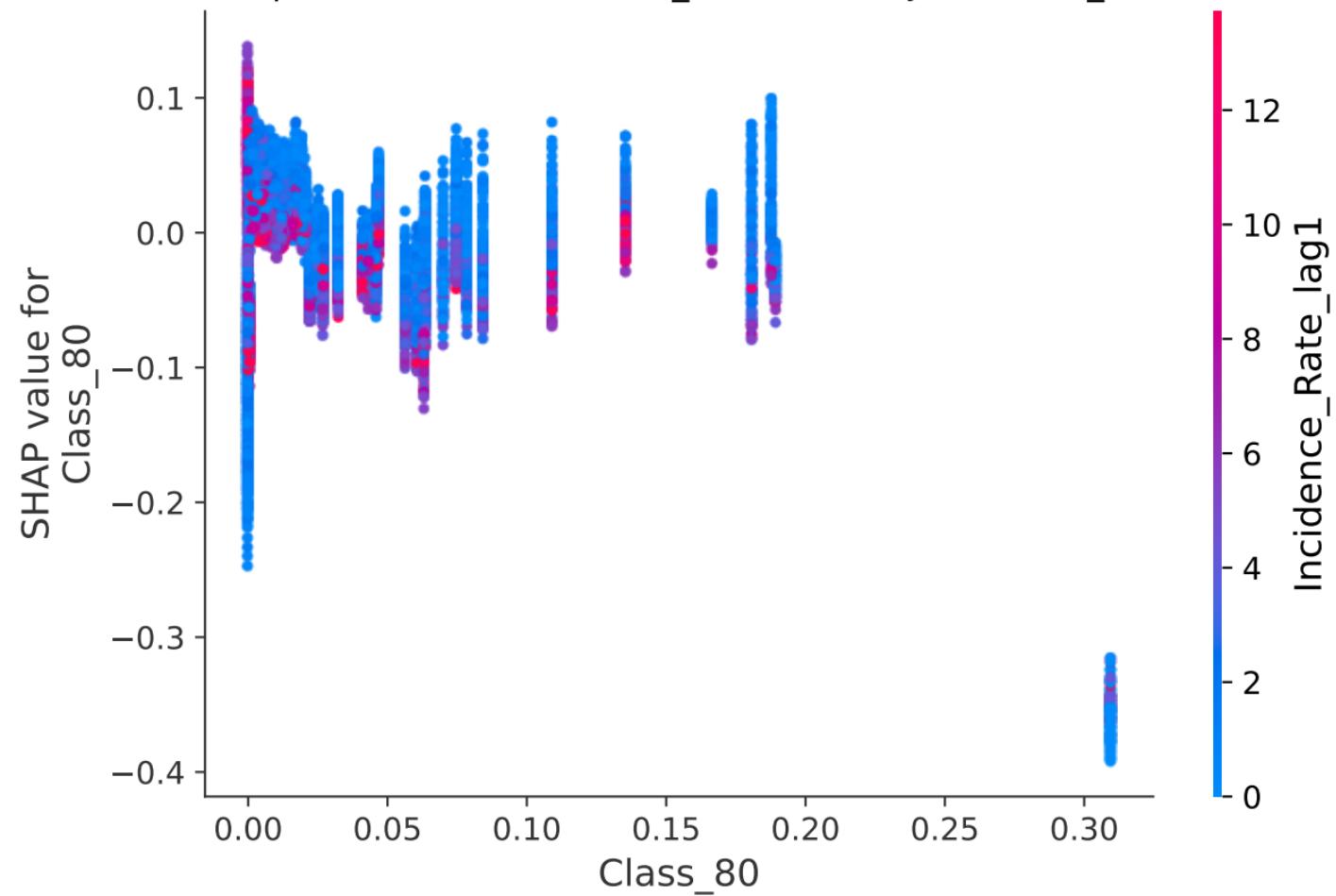
SHAP value for
Class_40



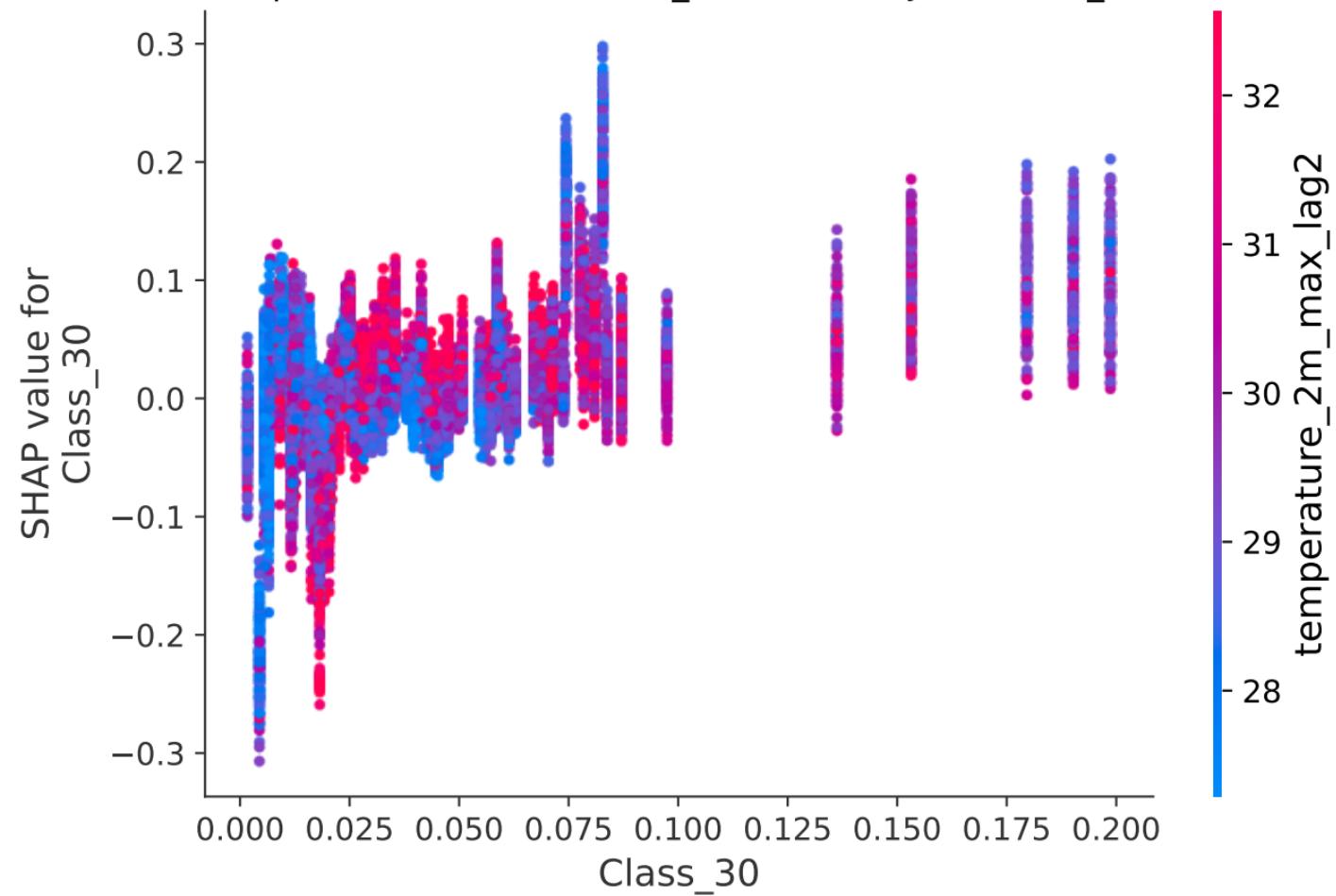
temperature_2m_min

25.0
24.5
24.0
23.5
23.0
22.5
22.0
21.5
21.0

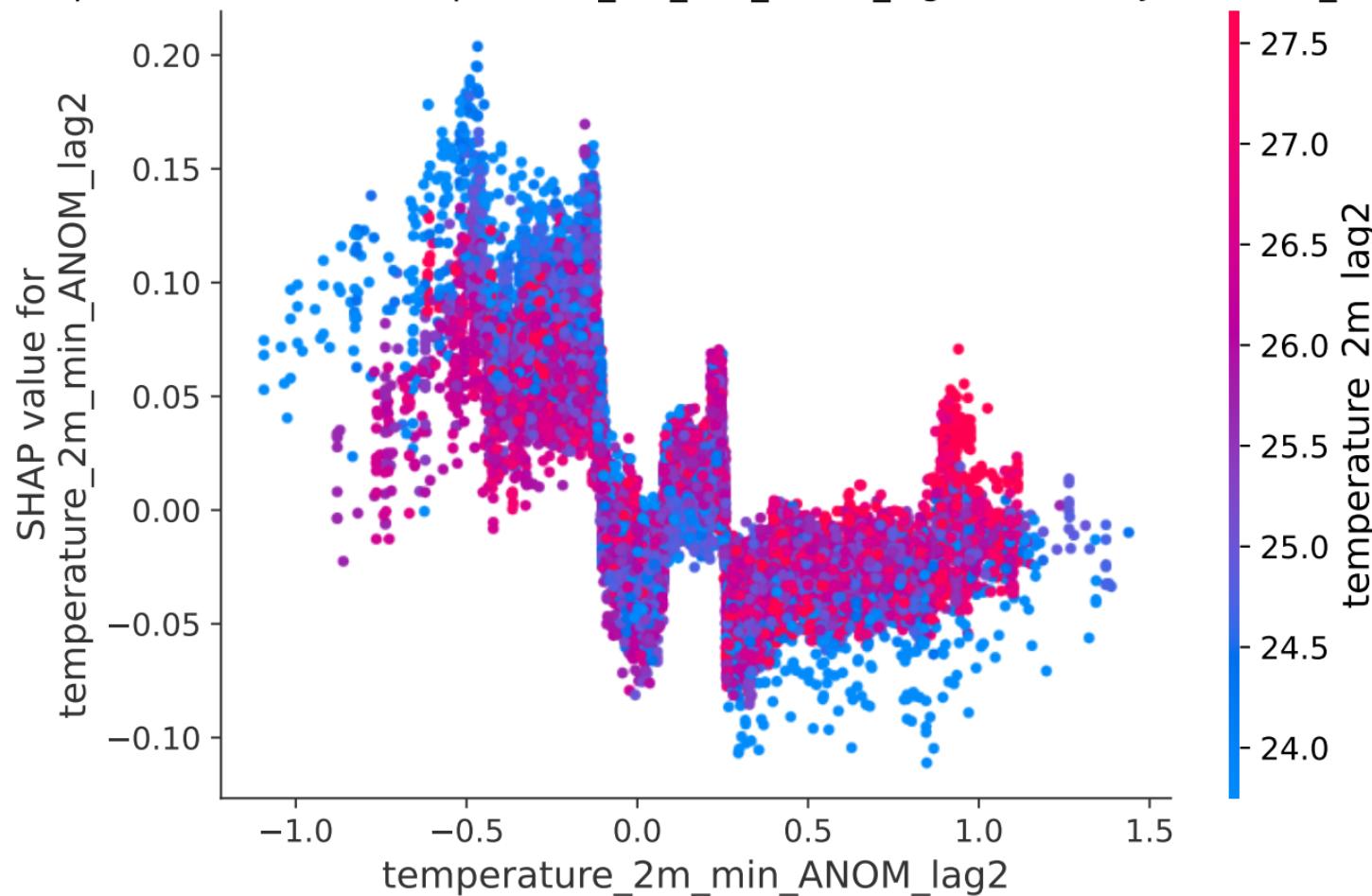
SHAP Dependence Plot for Class_80, Class 1 - Java (Train_Val Set)



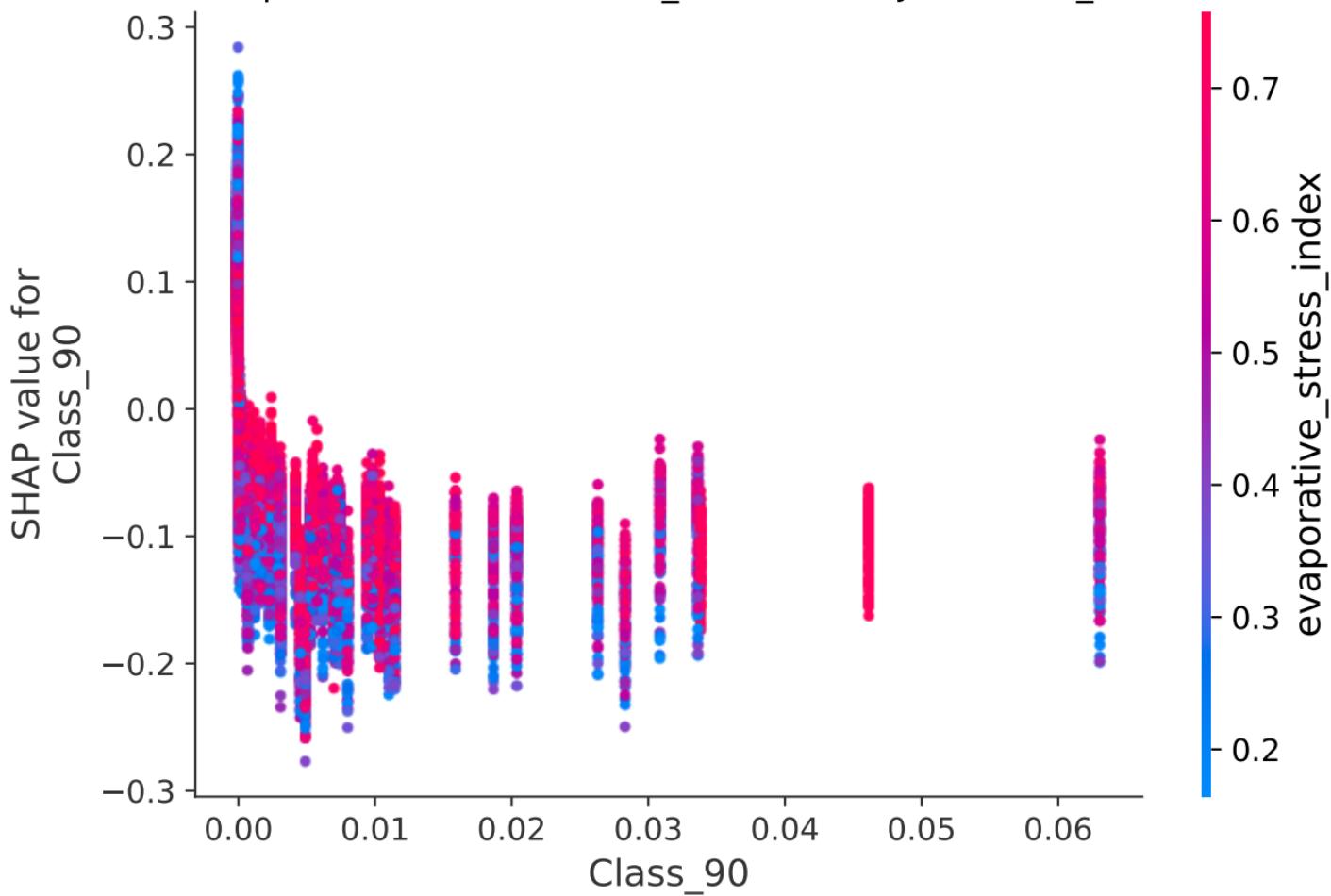
SHAP Dependence Plot for Class_30, Class 1 - Java (Train_Val Set)



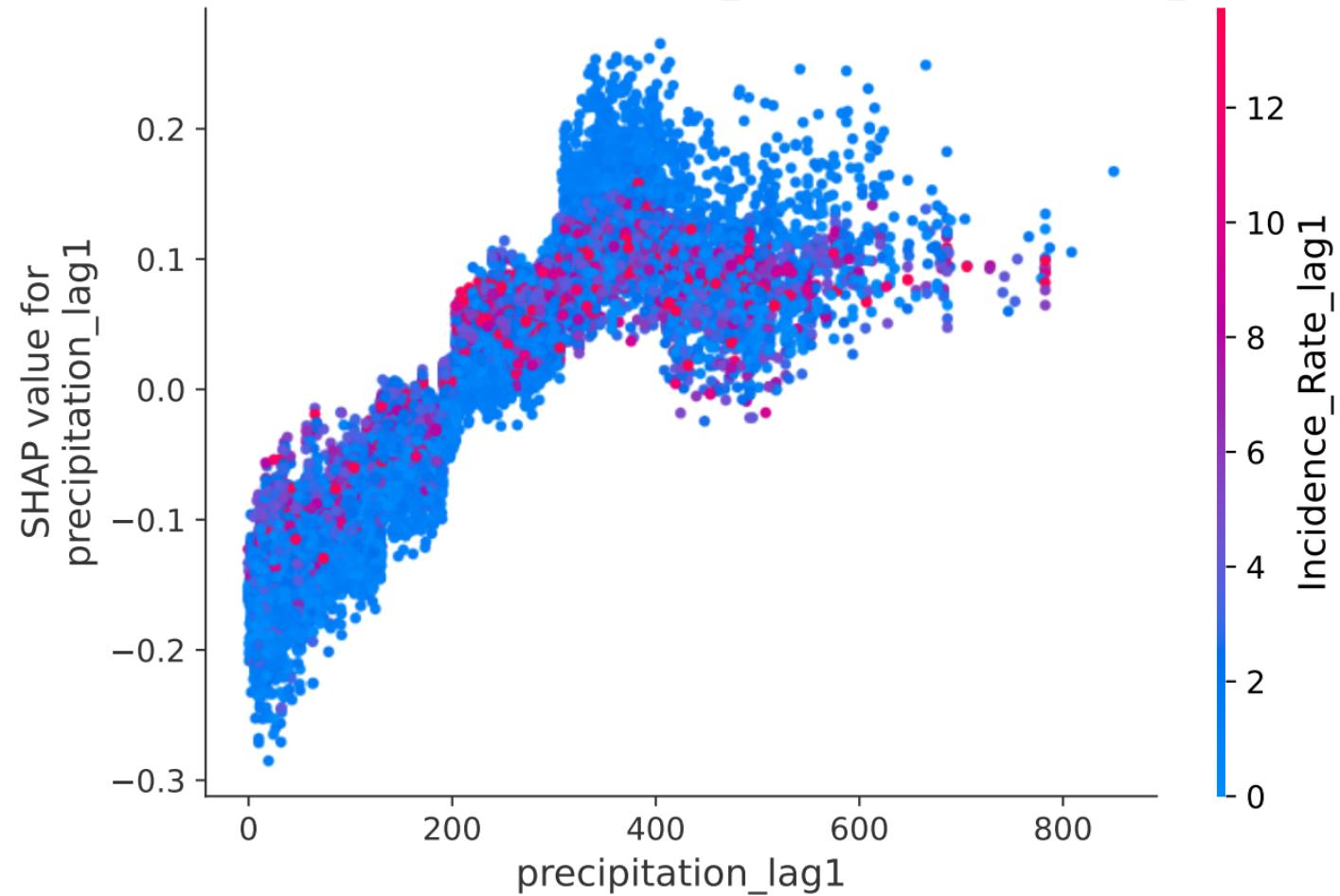
SHAP Dependence Plot for temperature_2m_min_ANOM_lag2, Class 1 - Java (Train_Val Set)



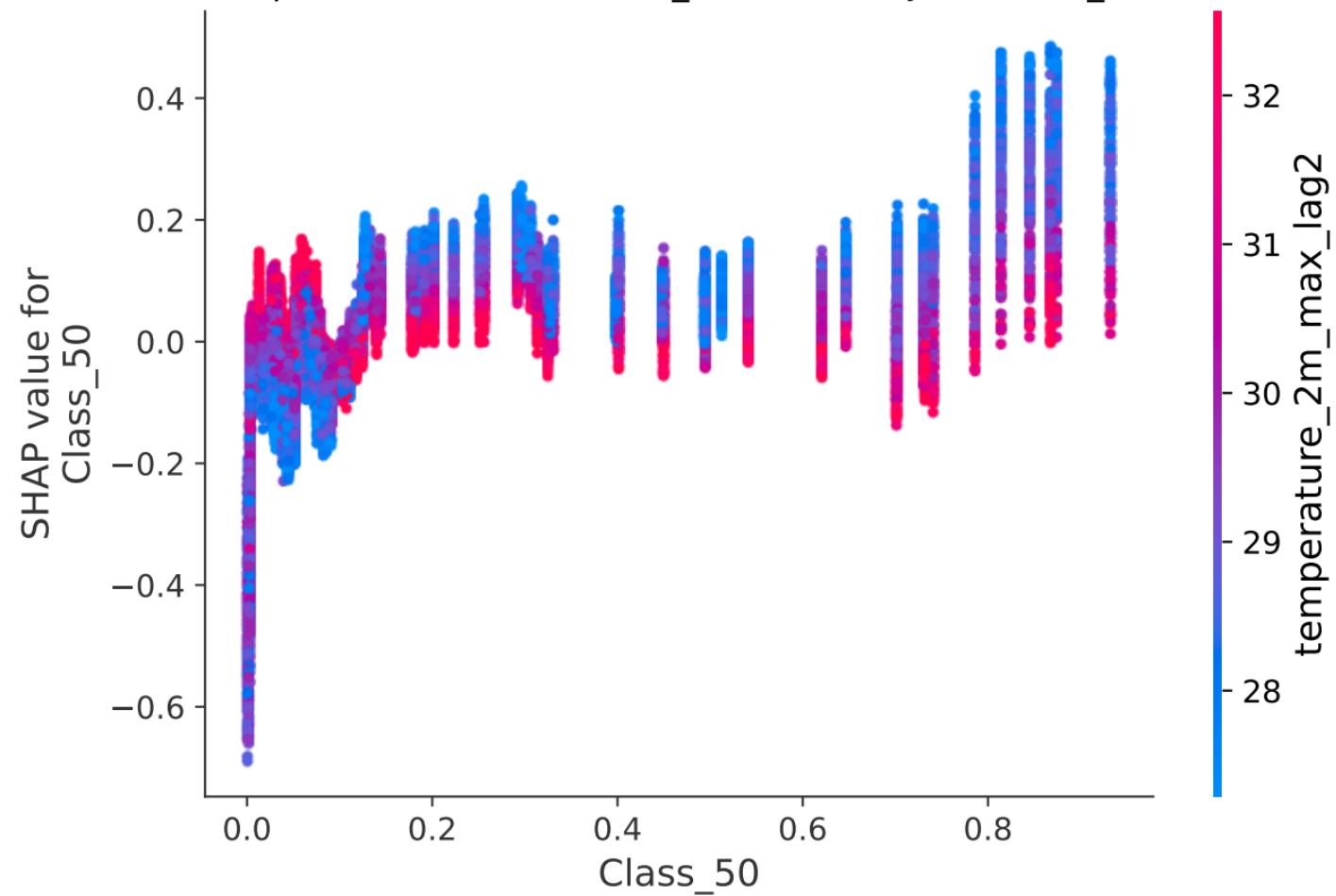
SHAP Dependence Plot for Class_90, Class 2 - Java (Train_Val Set)



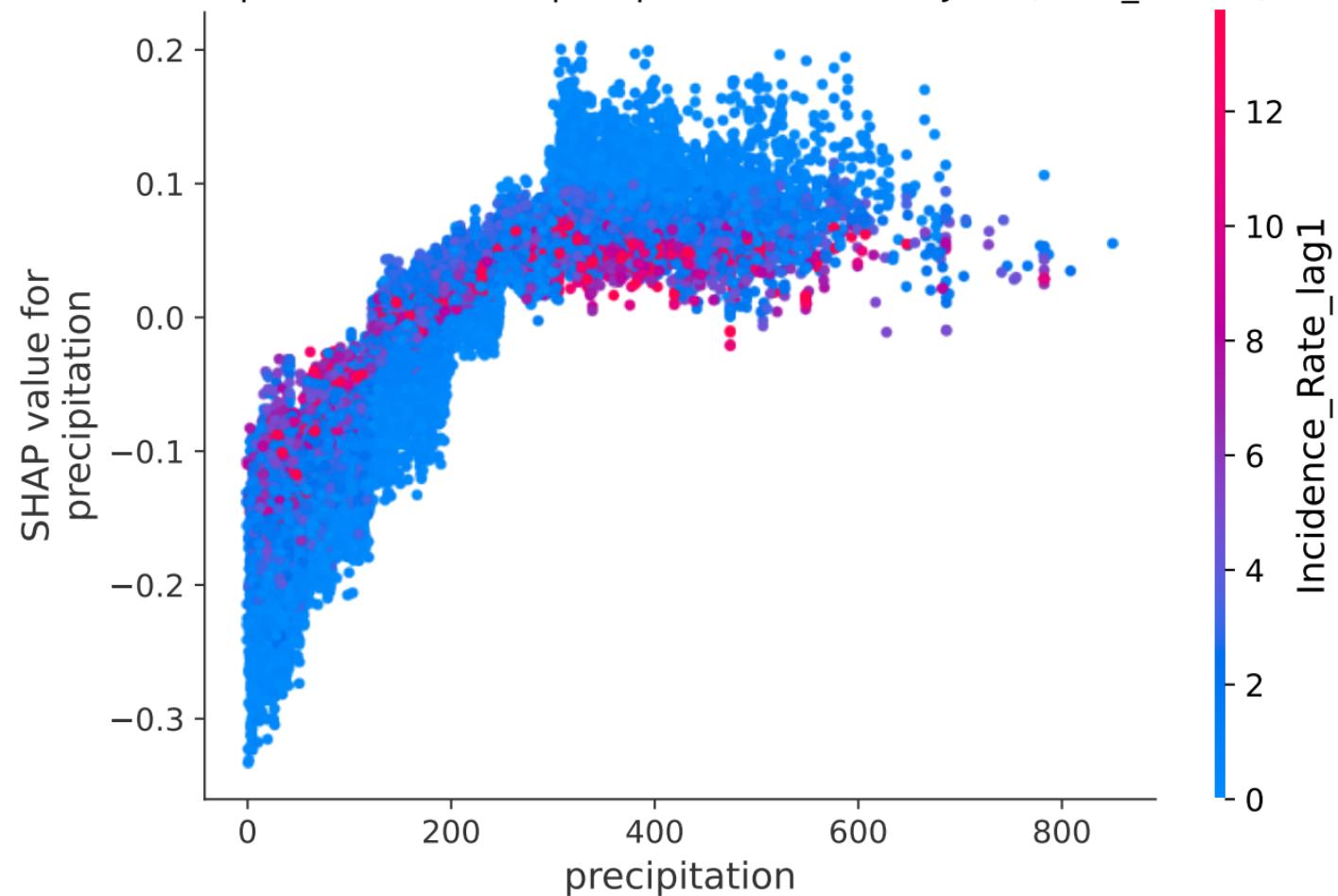
SHAP Dependence Plot for precipitation_lag1, Class 2 - Java (Train_Val Set)



SHAP Dependence Plot for Class_50, Class 2 - Java (Train_Val Set)

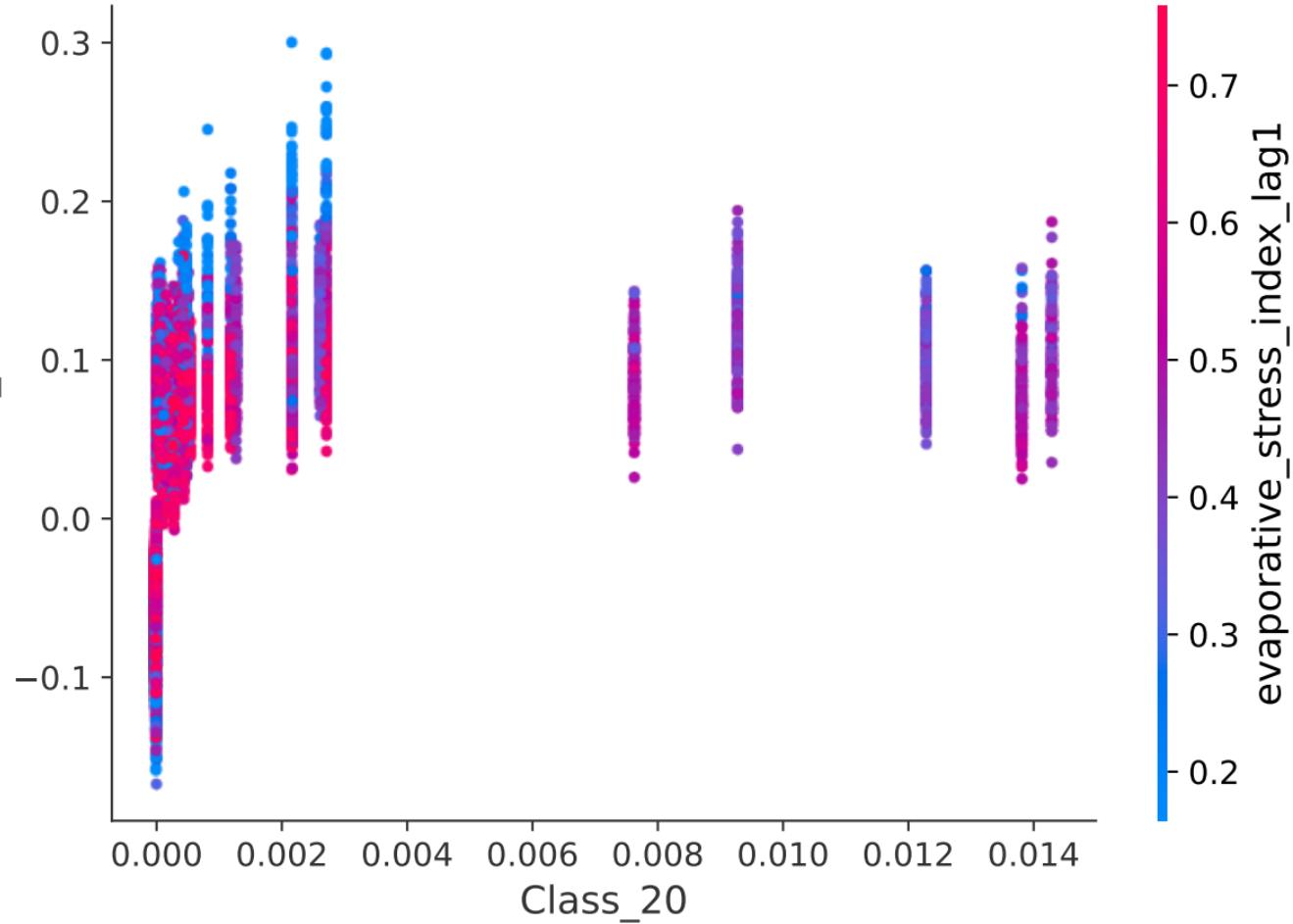


SHAP Dependence Plot for precipitation, Class 2 - Java (Train_Val Set)

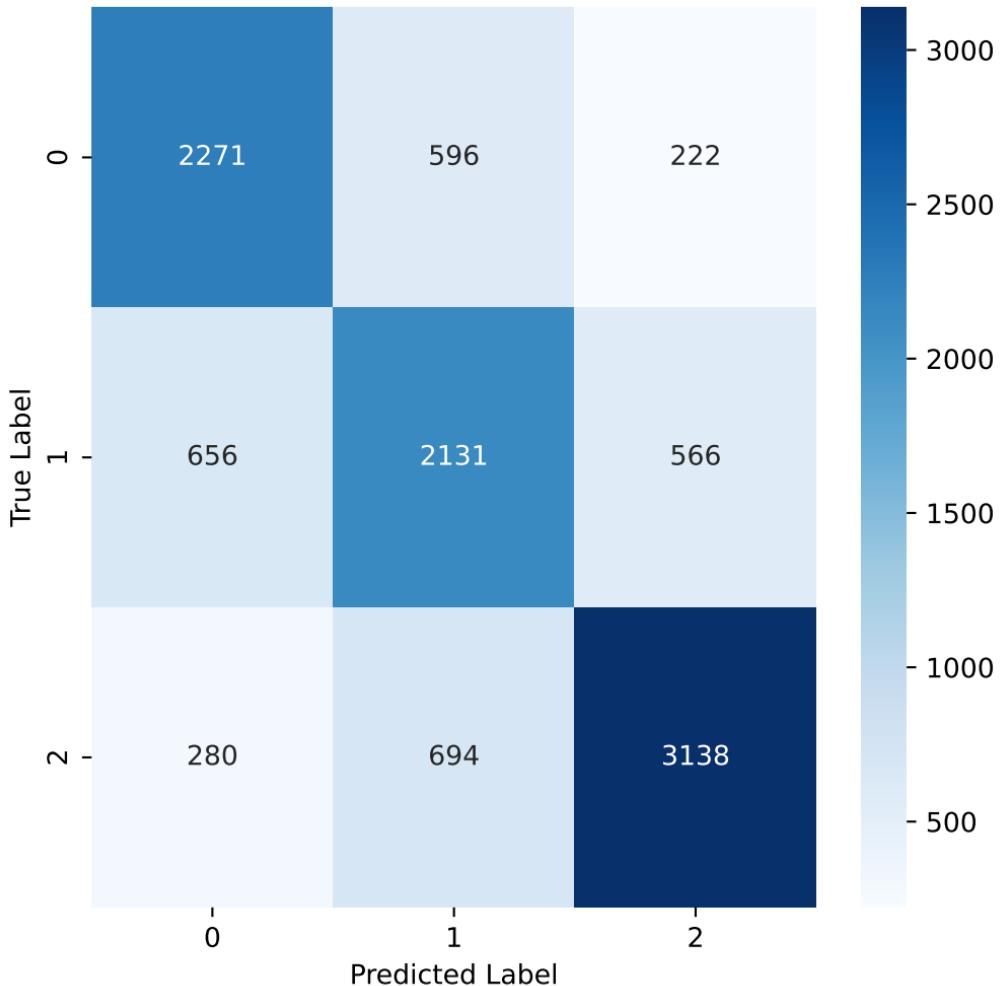


SHAP Dependence Plot for Class_20, Class 2 - Java (Train_Val Set)

SHAP value for
Class_20



Confusion Matrix - Sulawesi (Train_Val Set)

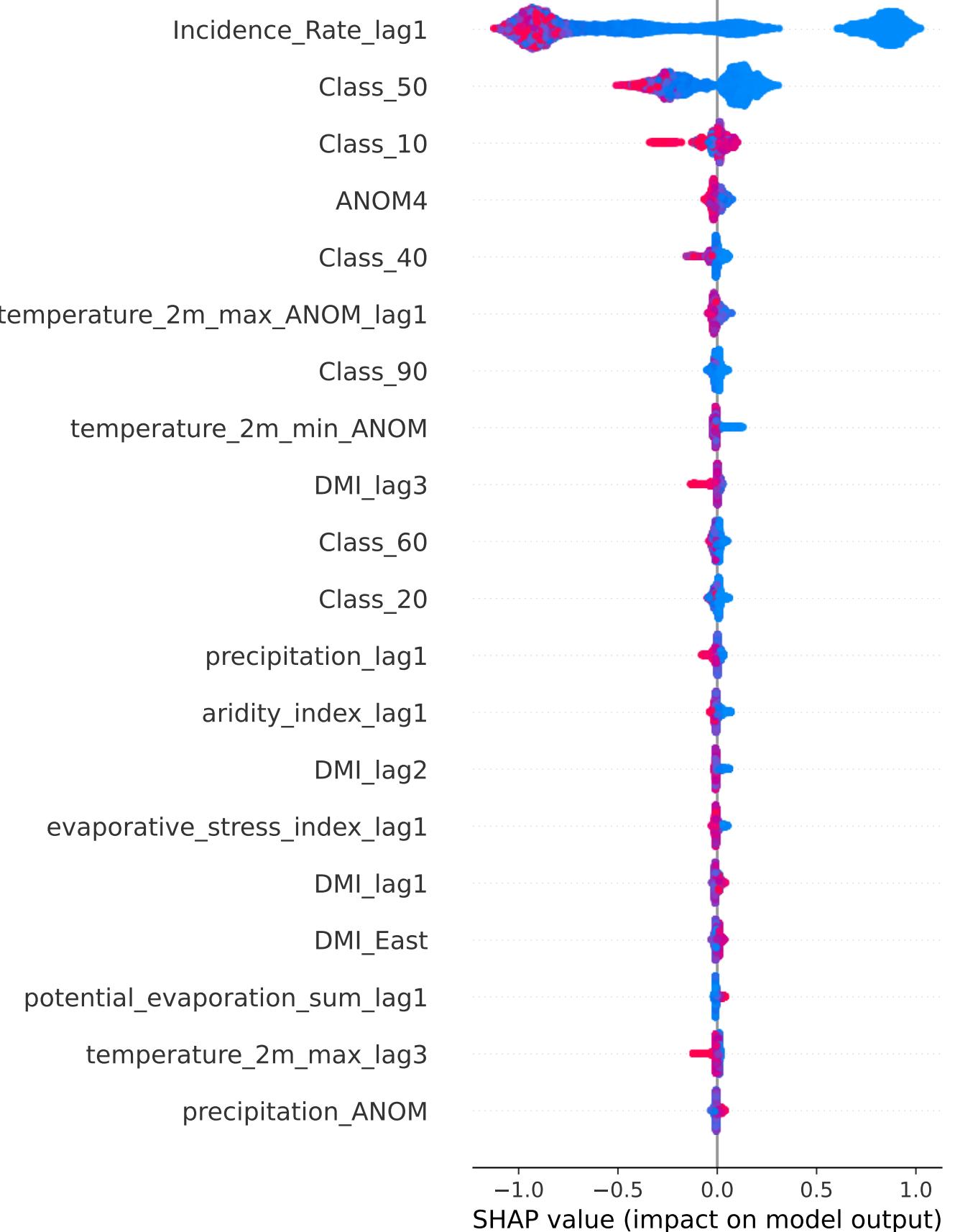


SHAP Beeswarm Plot for Class 0 - Sulawesi (Train_Val Set)

High

Feature value

Low

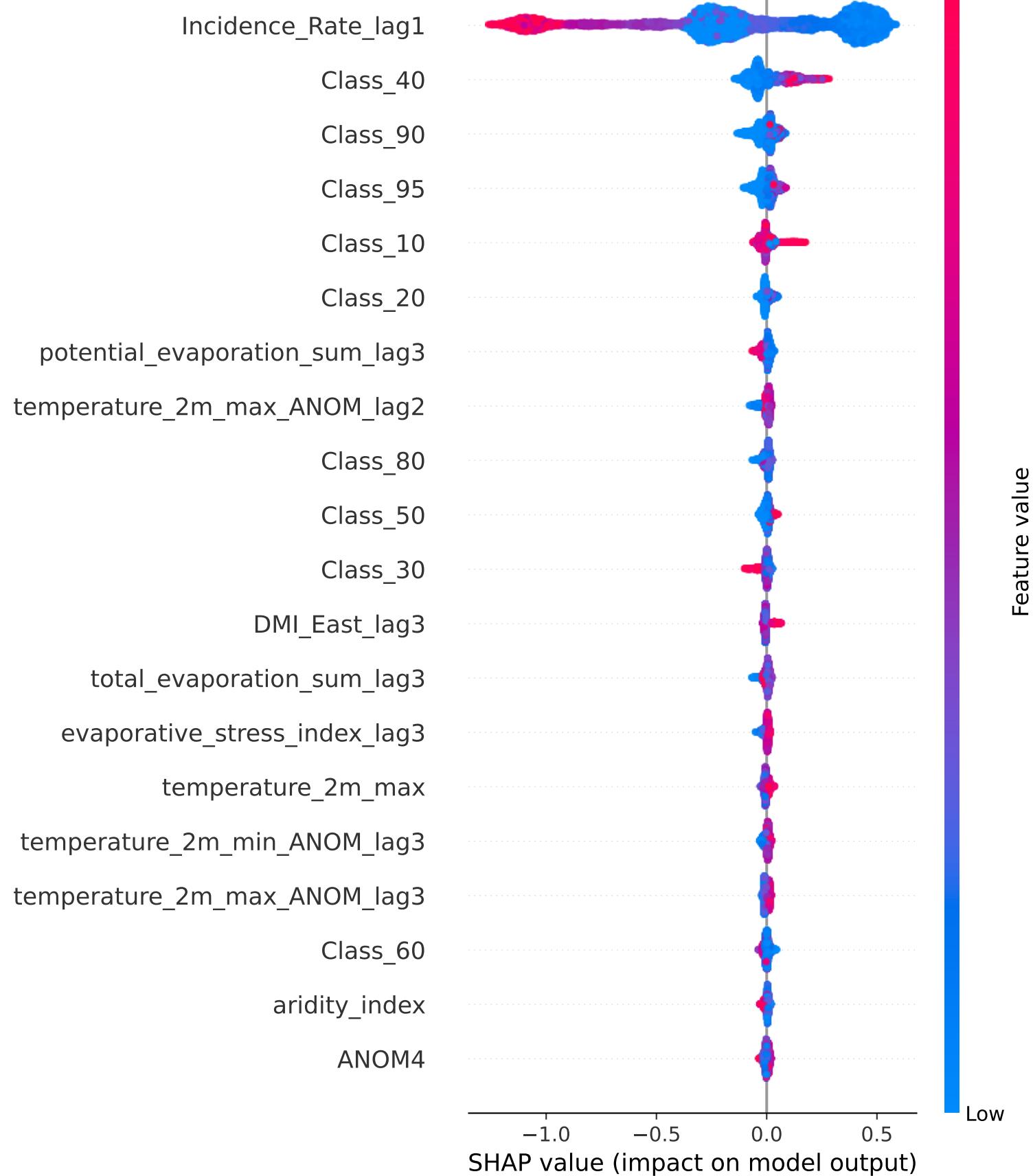


SHAP Beeswarm Plot for Class 1 - Sulawesi (Train_Val Set)

High

Feature value

Low

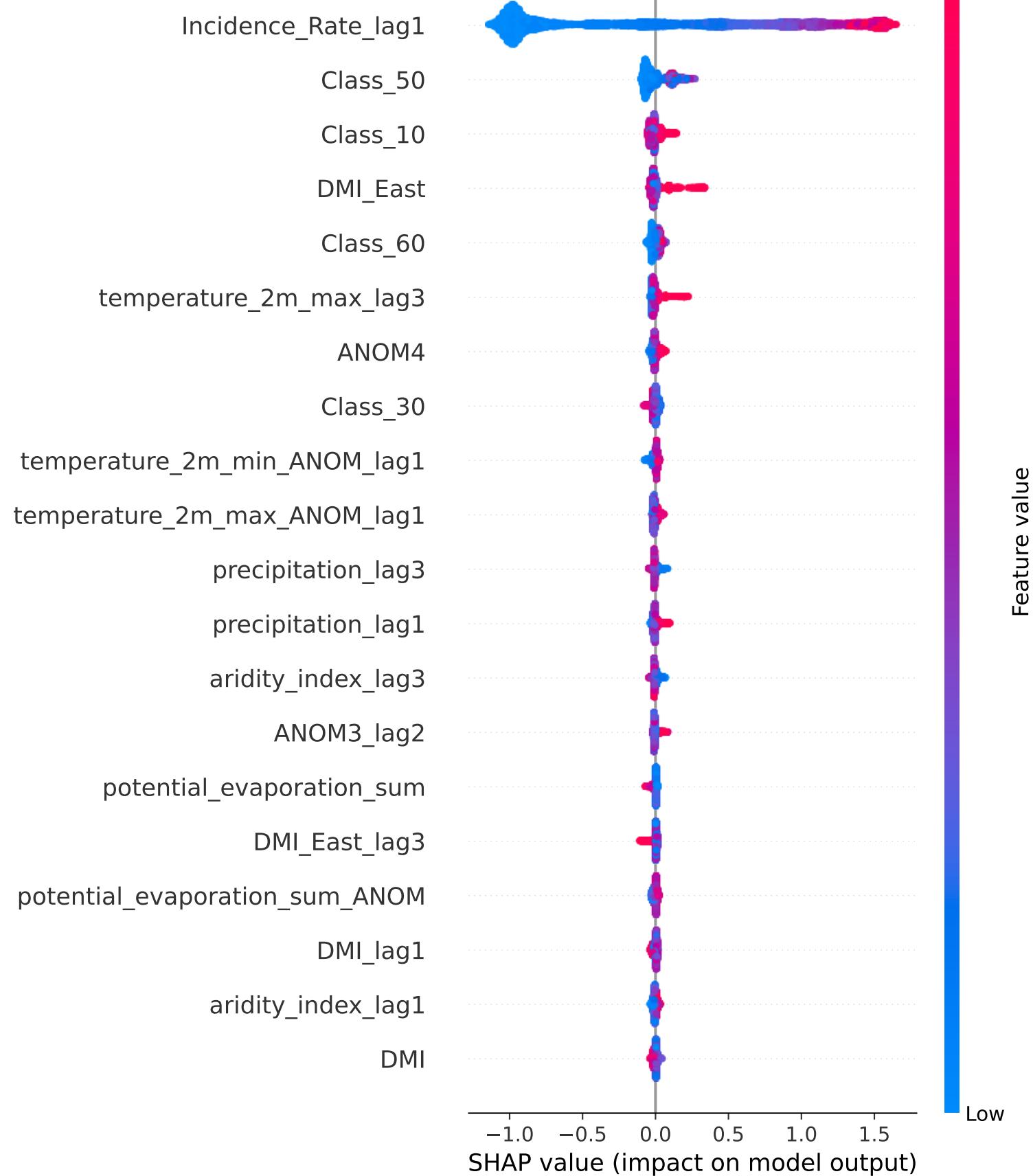


SHAP Beeswarm Plot for Class 2 - Sulawesi (Train_Val Set)

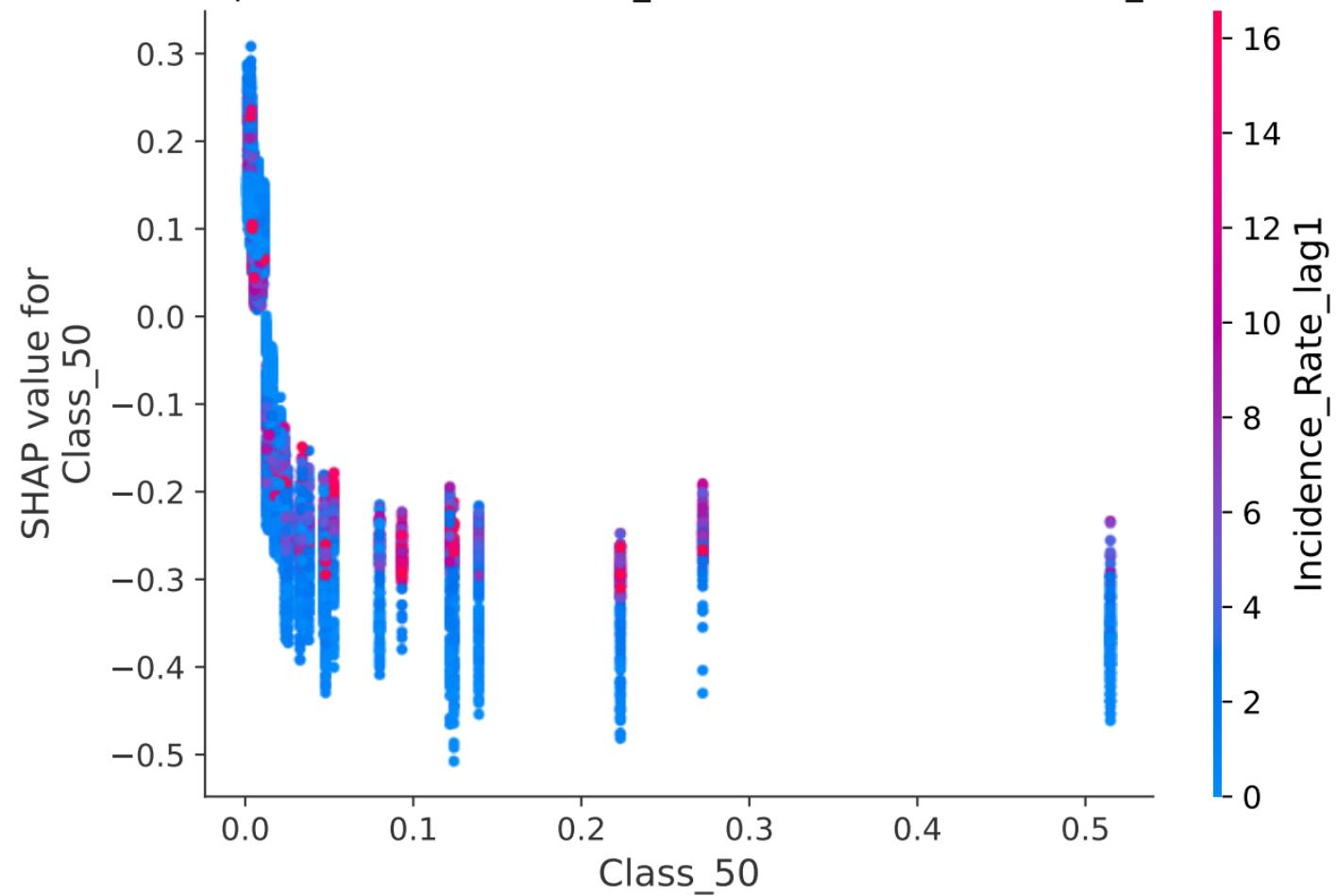
High

Feature value

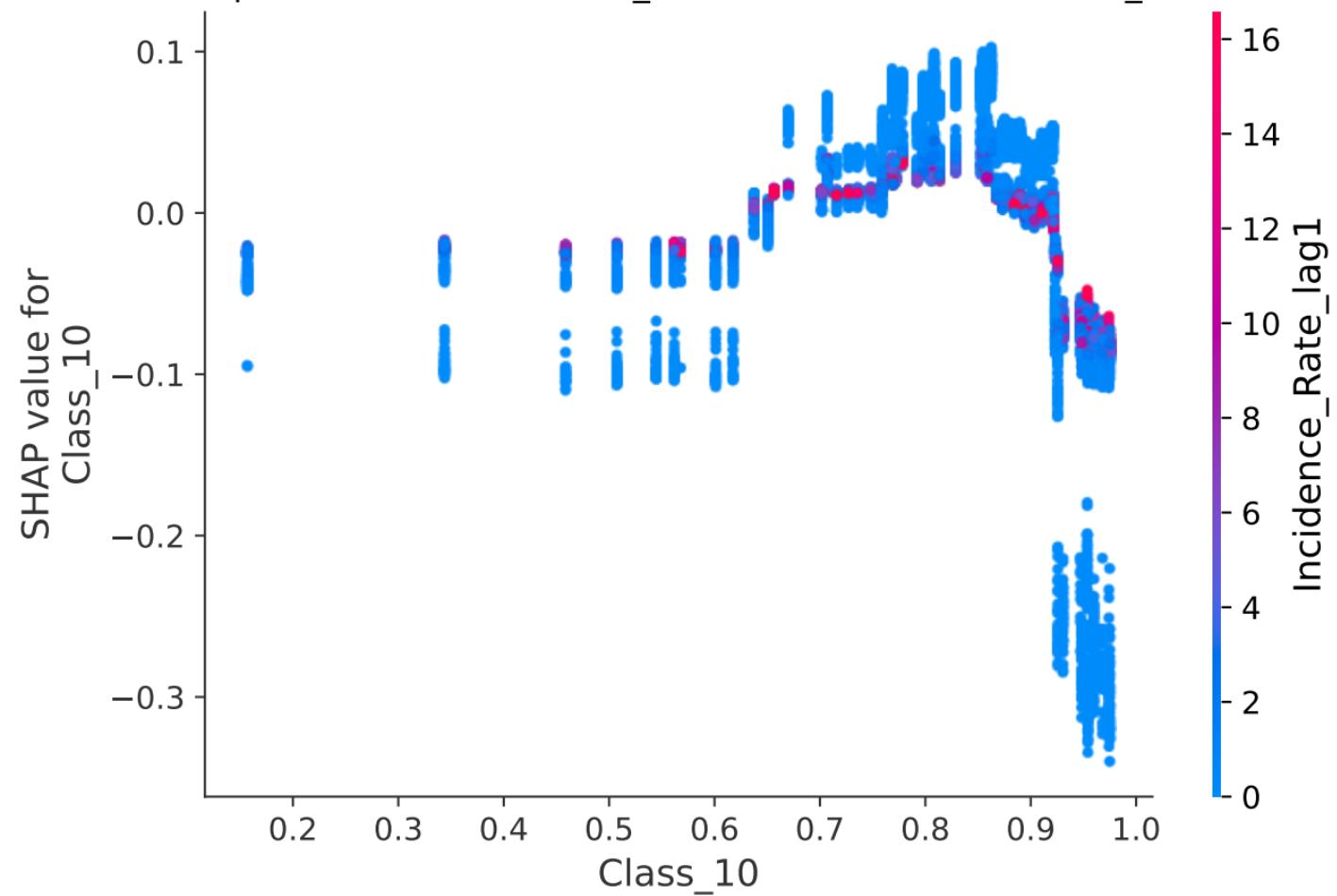
Low



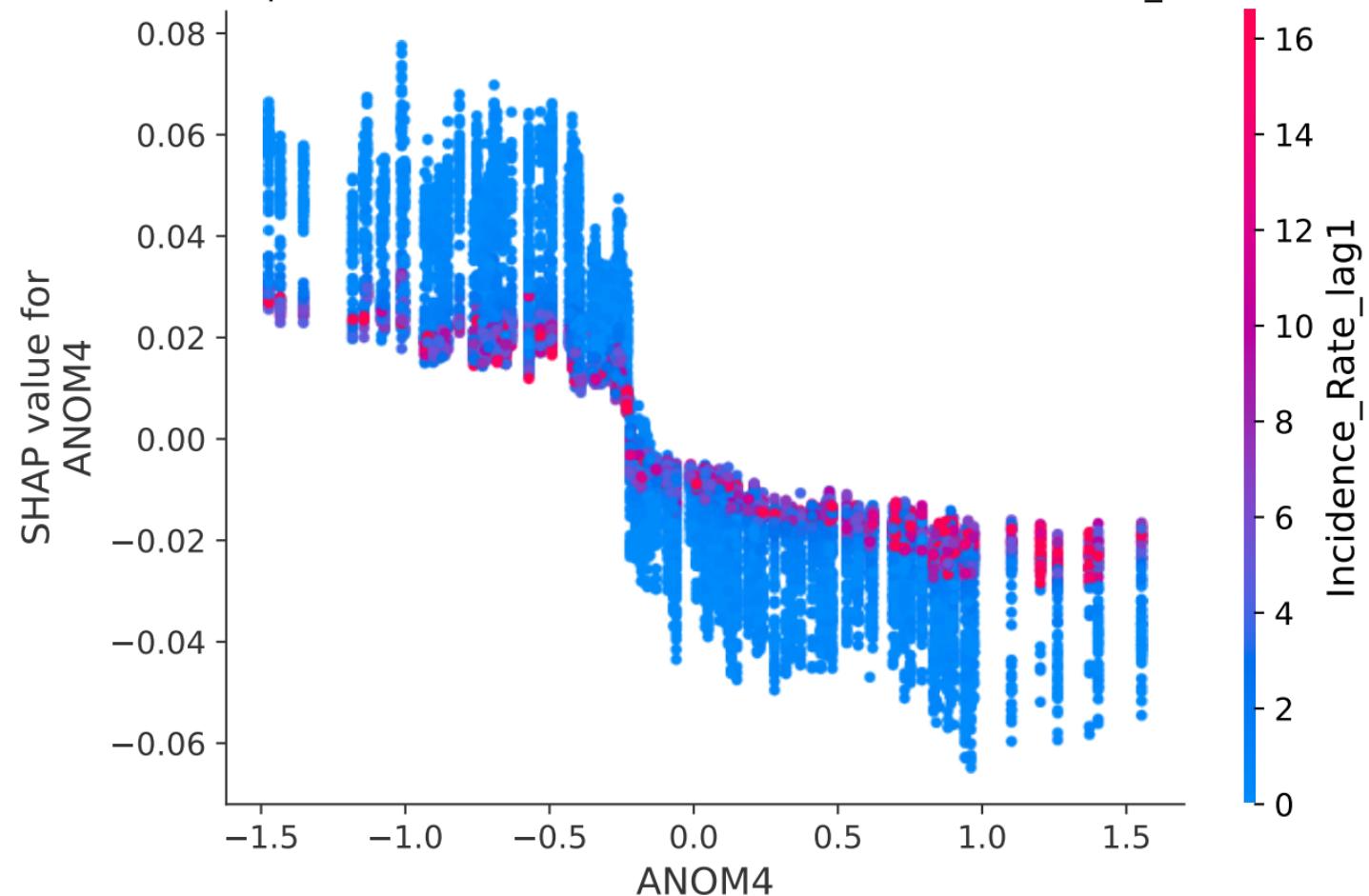
SHAP Dependence Plot for Class_50, Class 0 - Sulawesi (Train_Val Set)



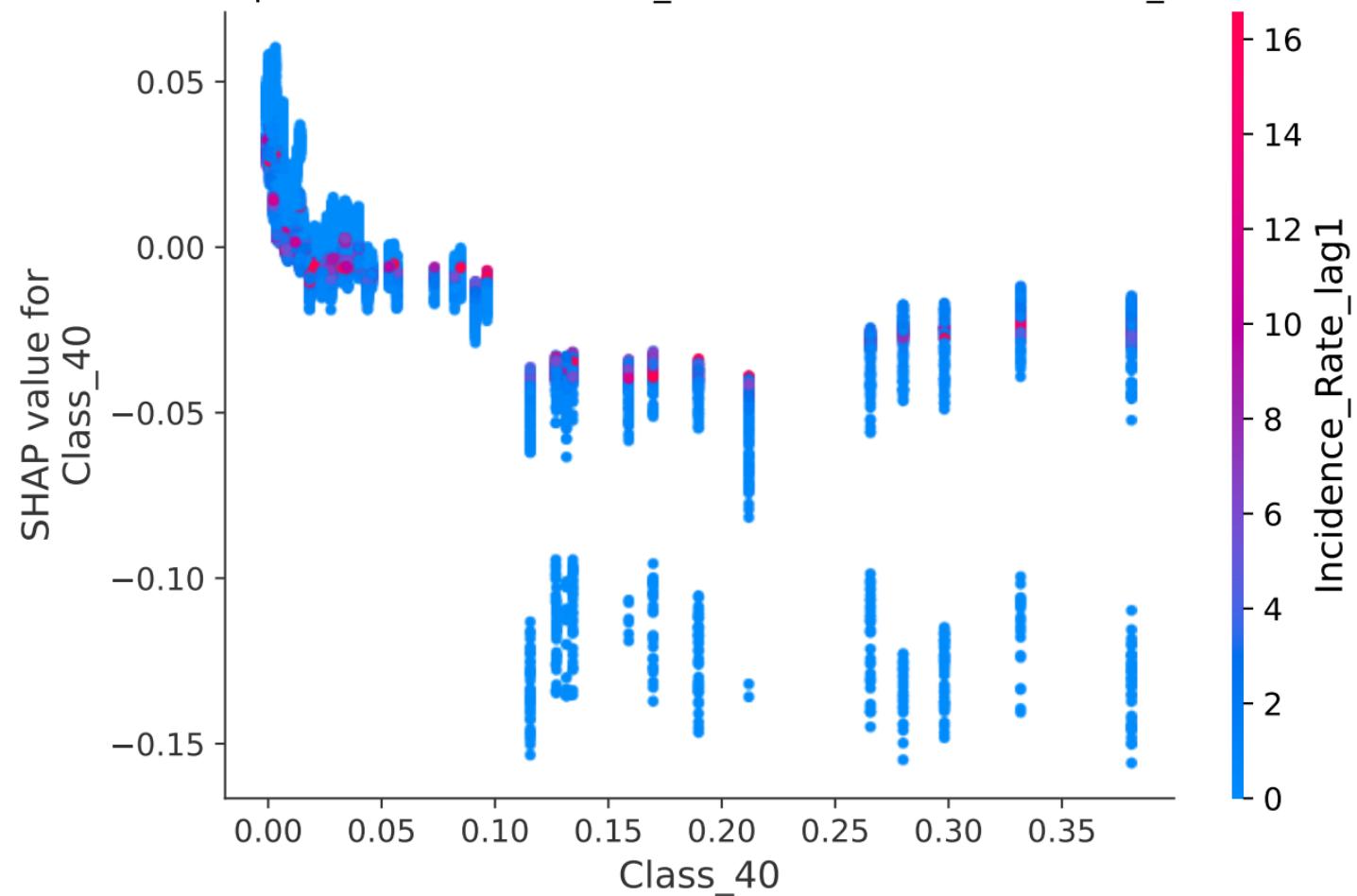
SHAP Dependence Plot for Class_10, Class 0 - Sulawesi (Train_Val Set)



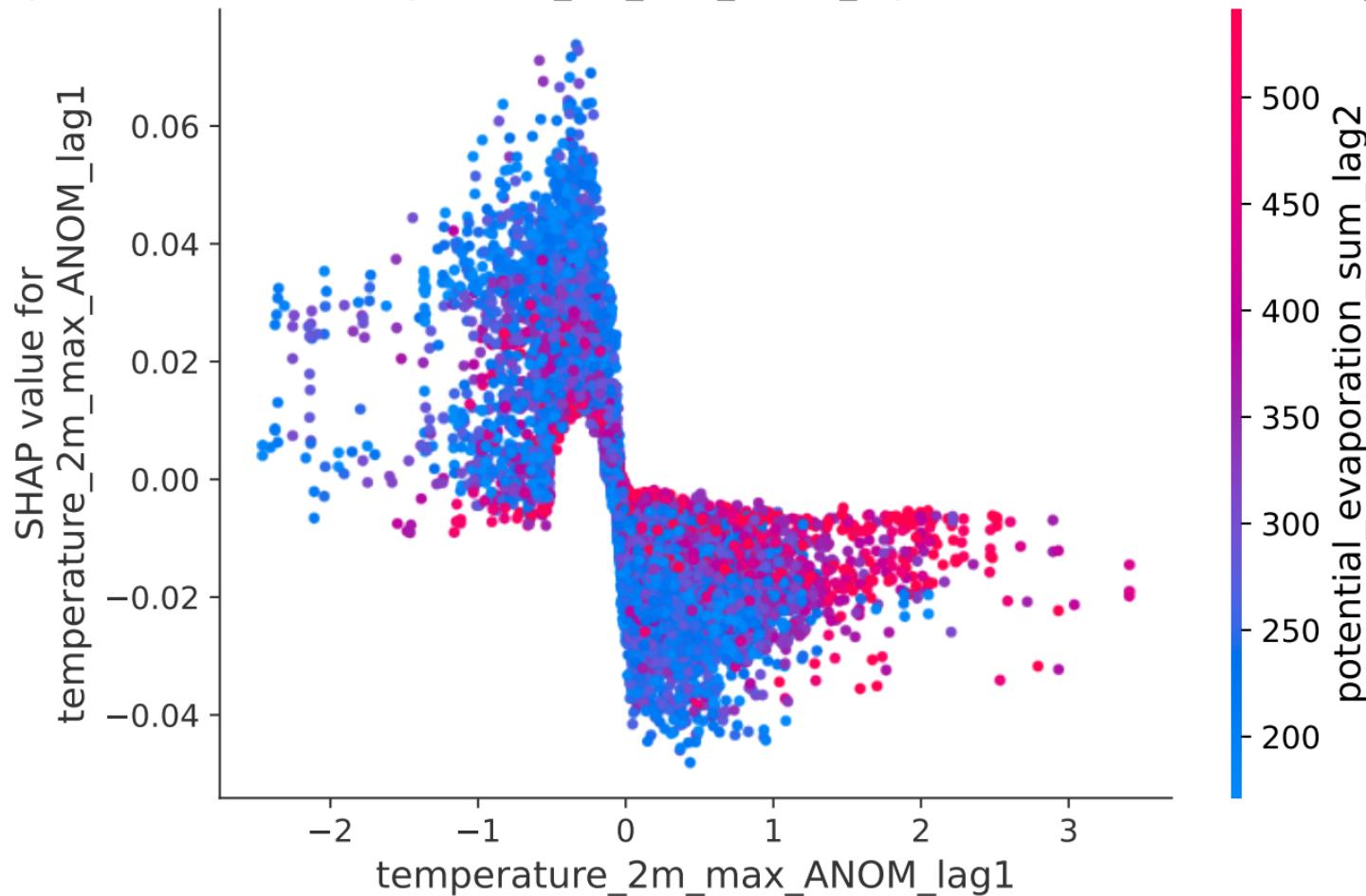
SHAP Dependence Plot for ANOM4, Class 0 - Sulawesi (Train_Val Set)



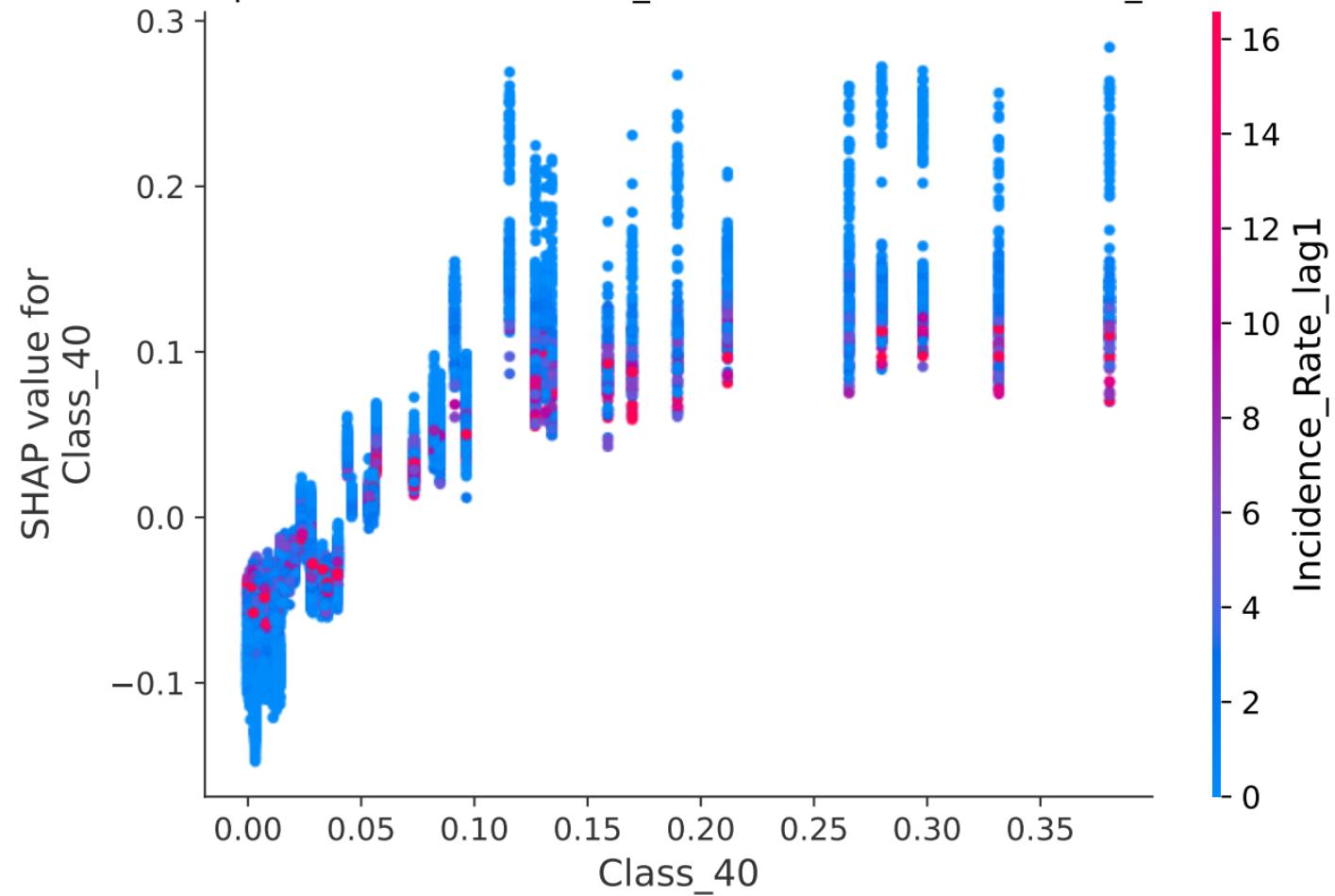
SHAP Dependence Plot for Class_40, Class 0 - Sulawesi (Train_Val Set)



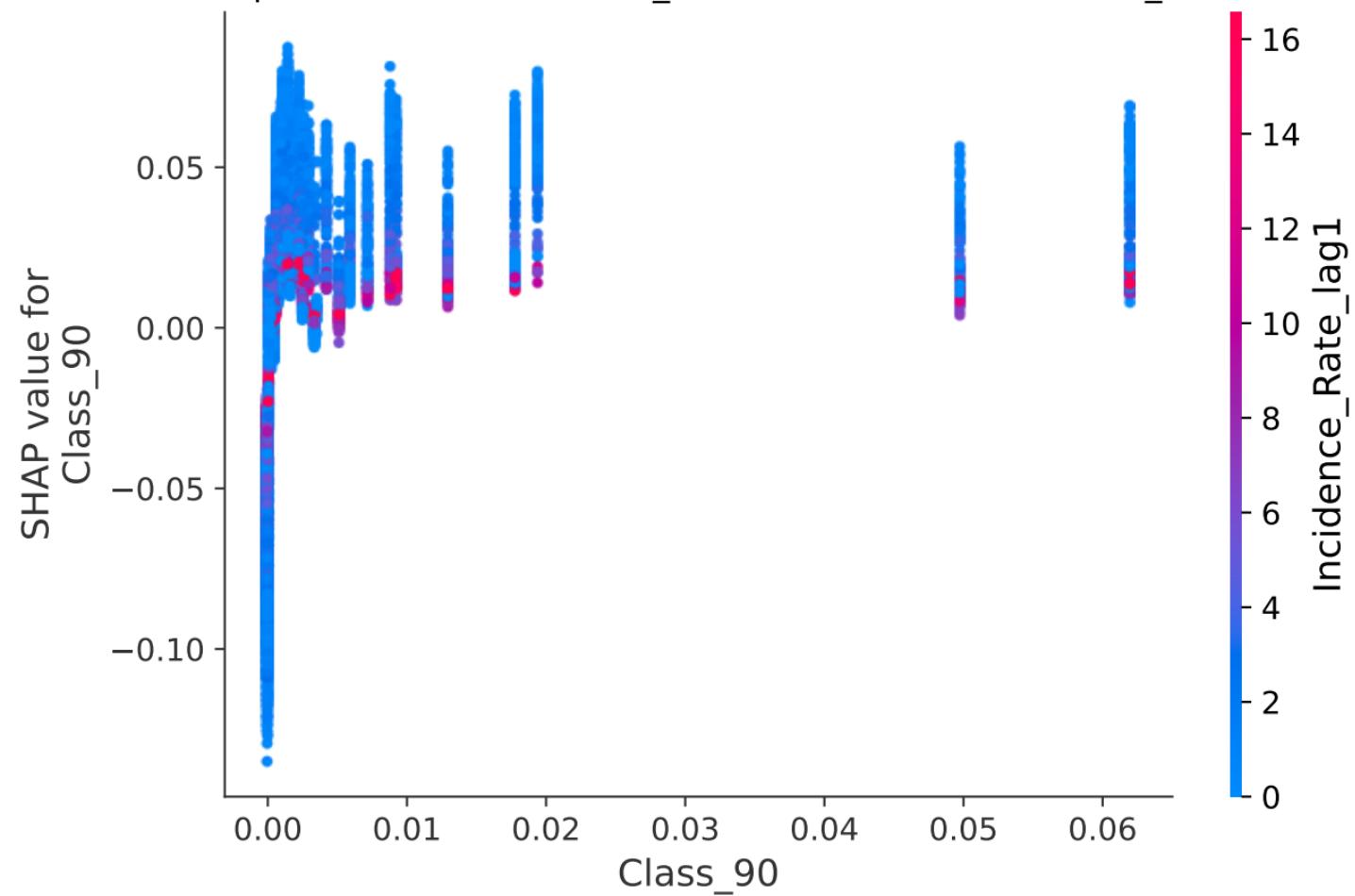
SHAP Dependence Plot for temperature_2m_max_ANOM_lag1, Class 0 - Sulawesi (Train_Val Set)



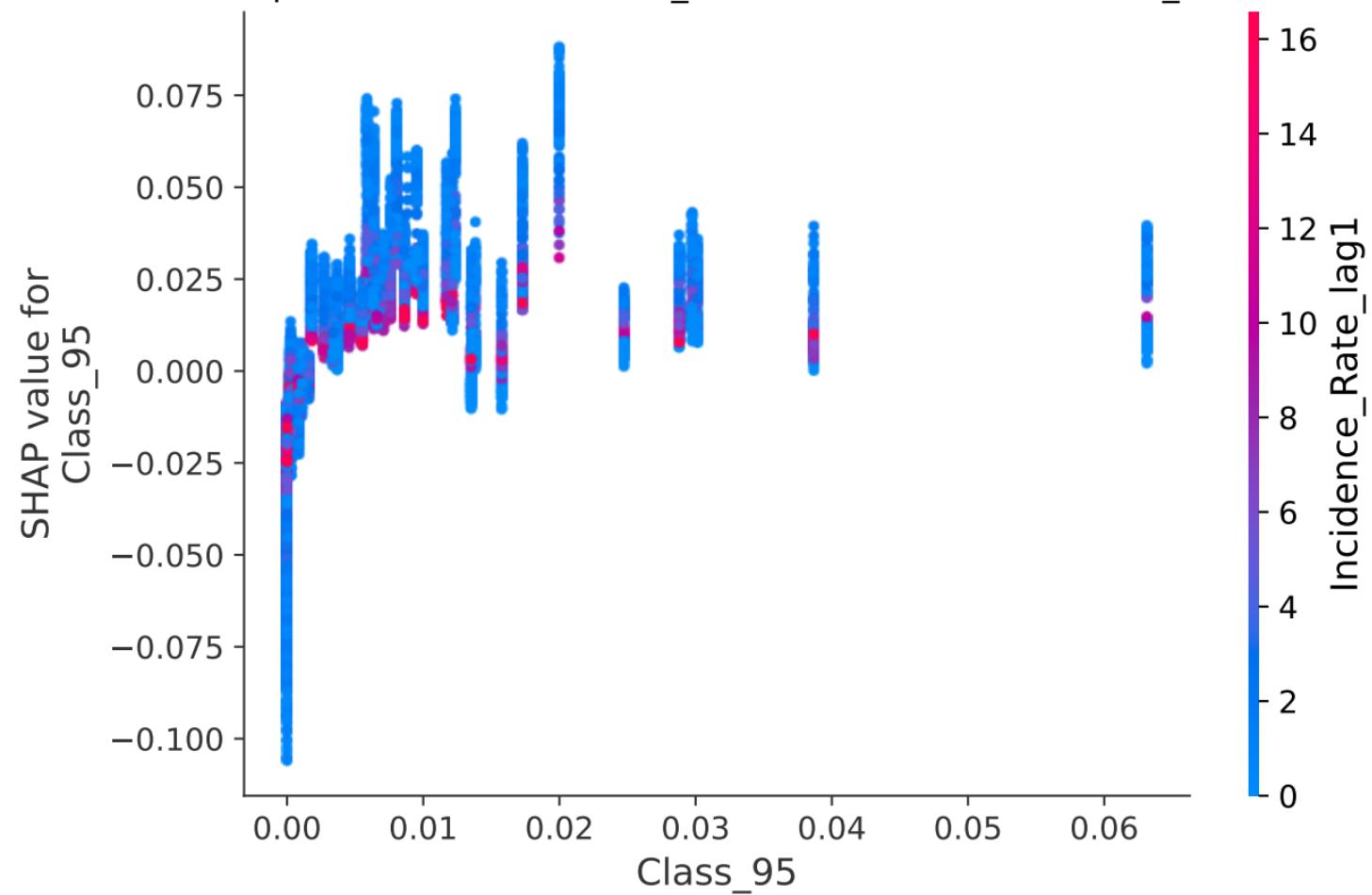
SHAP Dependence Plot for Class_40, Class 1 - Sulawesi (Train_Val Set)



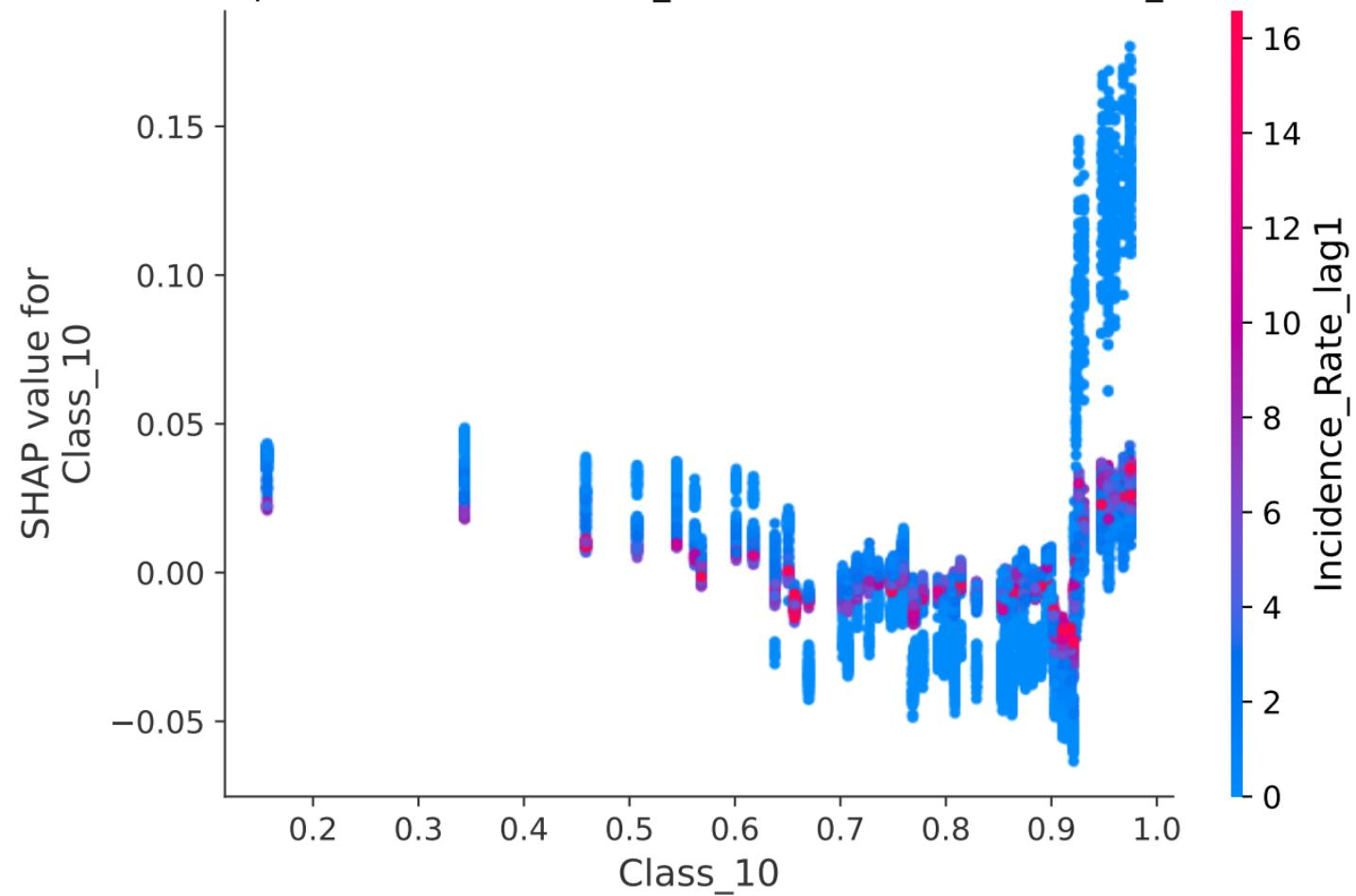
SHAP Dependence Plot for Class_90, Class 1 - Sulawesi (Train_Val Set)



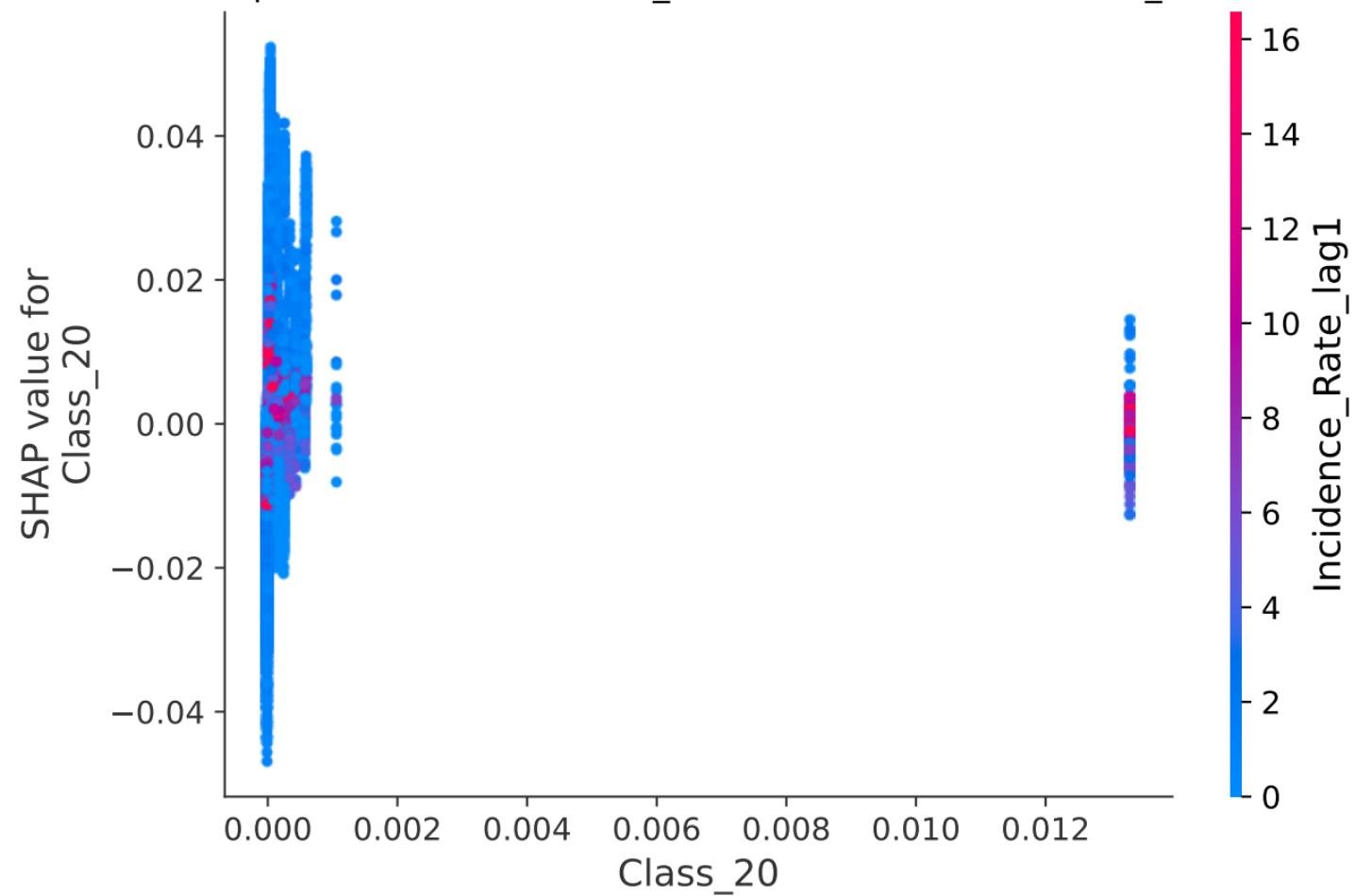
SHAP Dependence Plot for Class_95, Class 1 - Sulawesi (Train_Val Set)



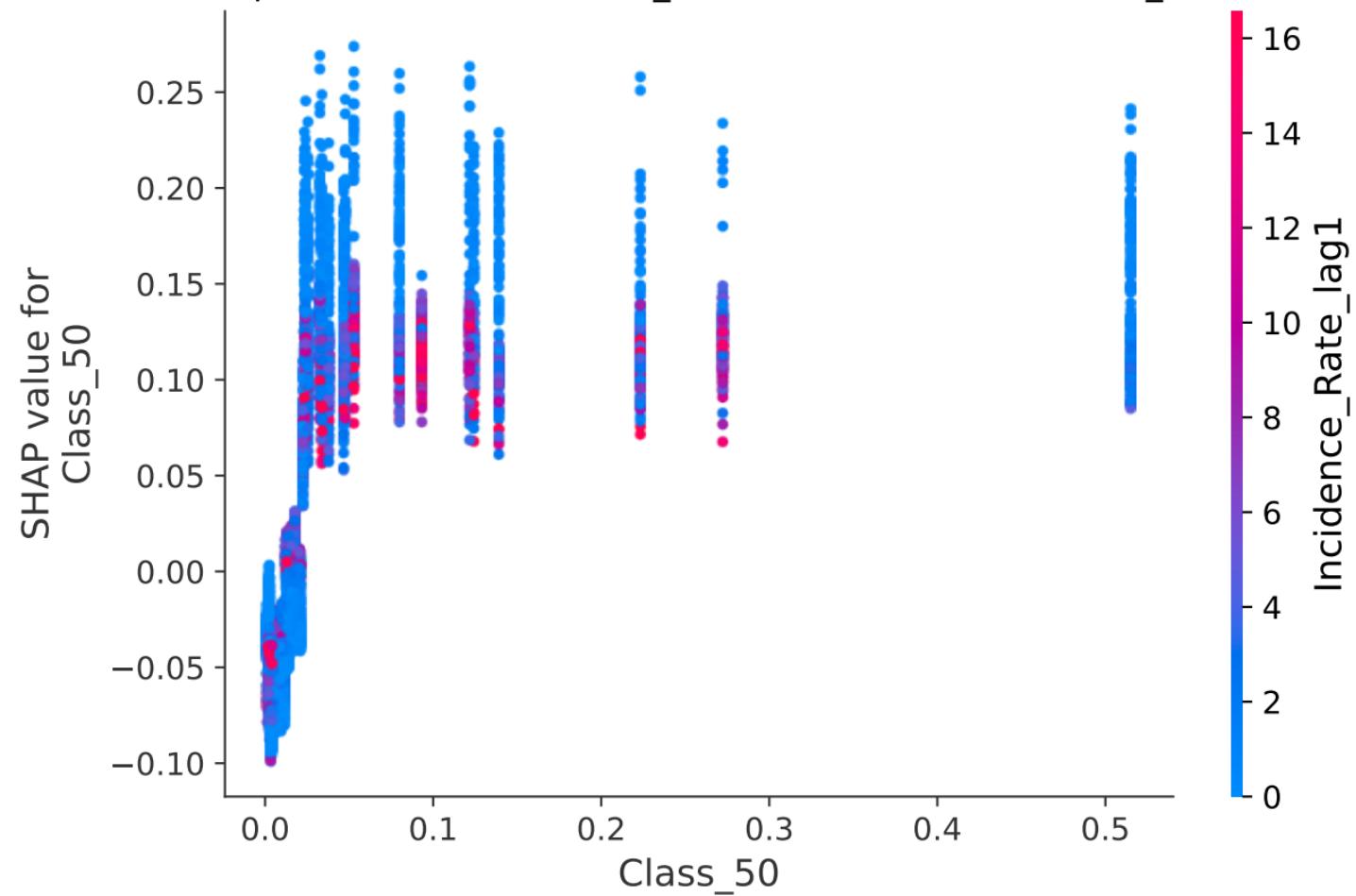
SHAP Dependence Plot for Class_10, Class 1 - Sulawesi (Train_Val Set)



SHAP Dependence Plot for Class_20, Class 1 - Sulawesi (Train_Val Set)

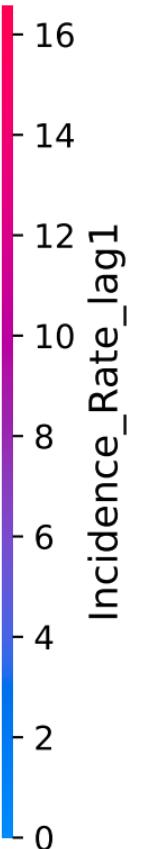
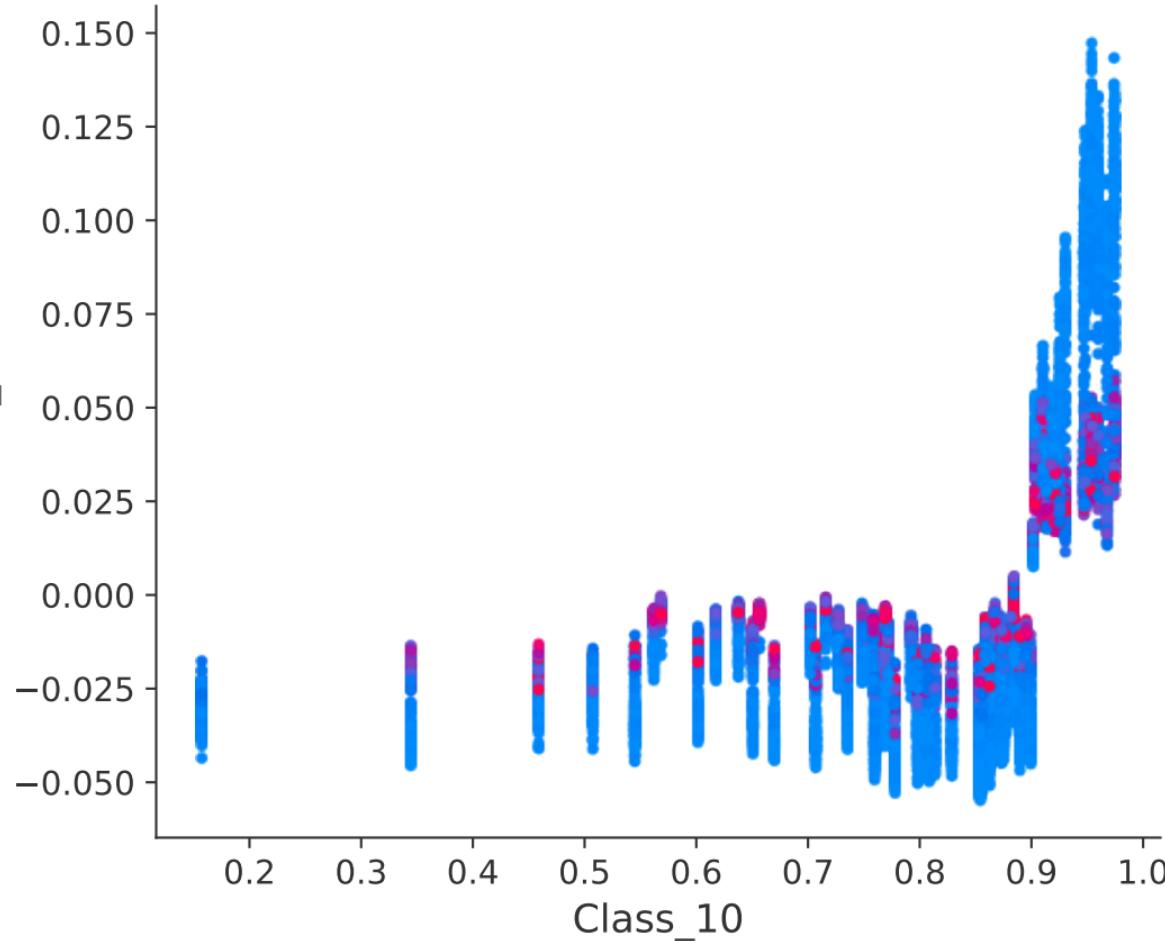


SHAP Dependence Plot for Class_50, Class 2 - Sulawesi (Train_Val Set)

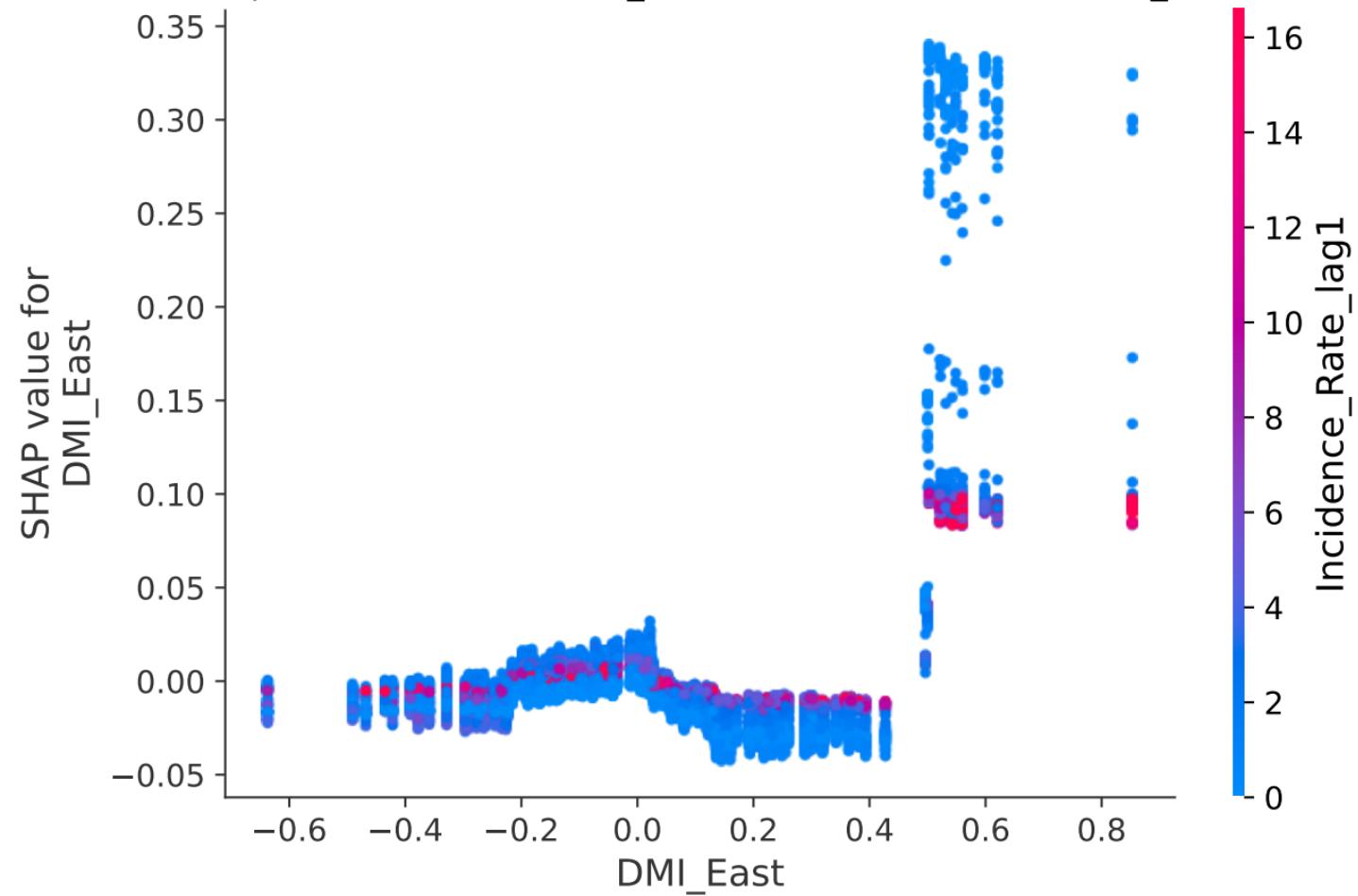


SHAP Dependence Plot for Class_10, Class 2 - Sulawesi (Train_Val Set)

SHAP value for
Class_10



SHAP Dependence Plot for DMI_East, Class 2 - Sulawesi (Train_Val Set)



SHAP Dependence Plot for Class_60, Class 2 - Sulawesi (Train_Val Set)

SHAP value for
Class_60

0.08

0.06

0.04

0.02

0.00

-0.02

-0.04

-0.06

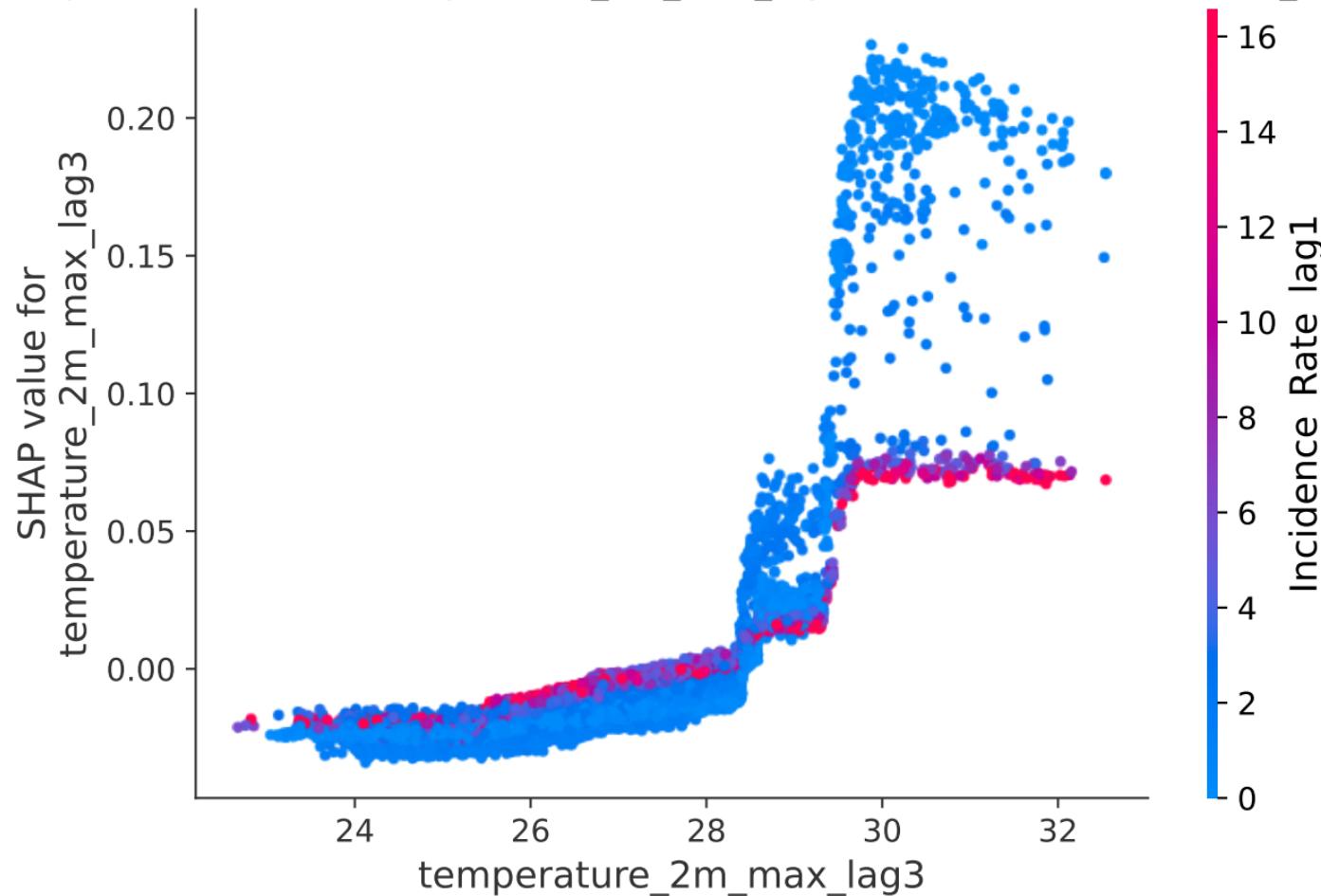
0.000 0.001 0.002 0.003 0.004 0.005 0.006 0.007 0.008

Class_60

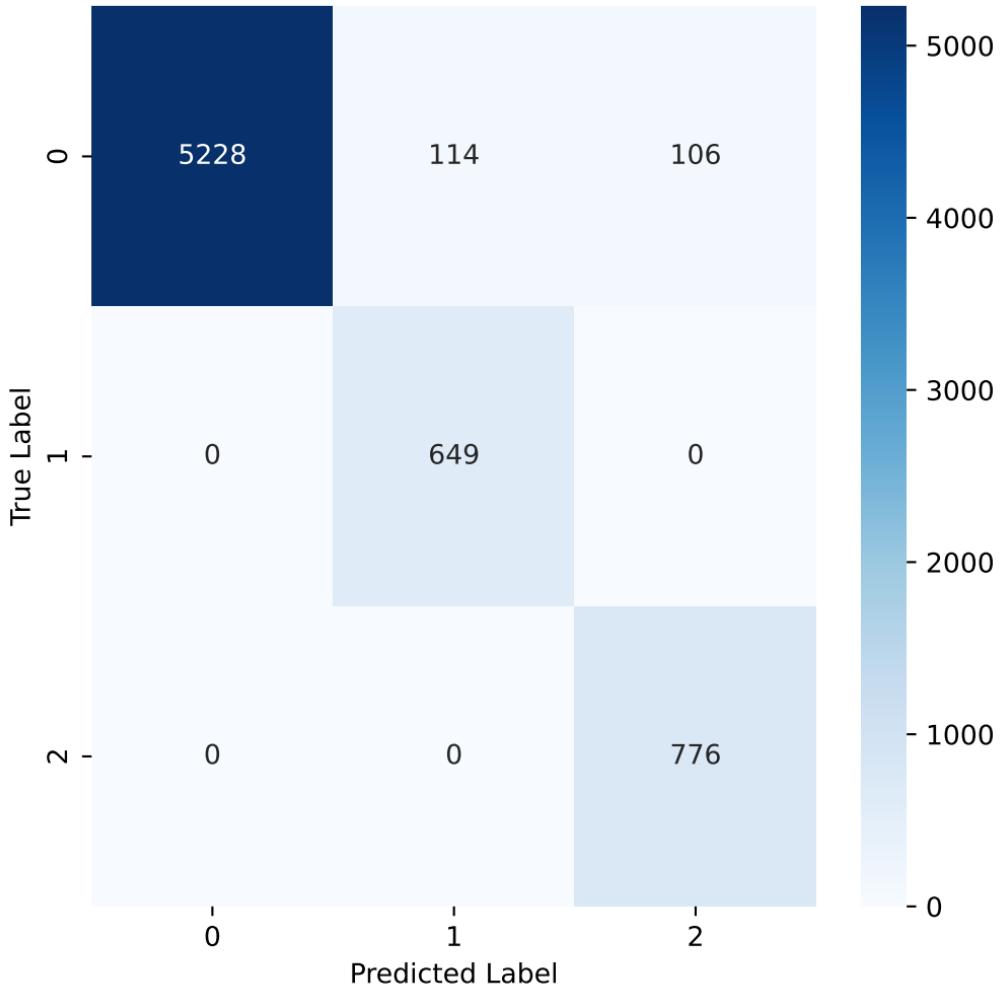
16
14
12
10
8
6
4
2
0

Incidence_Rate_lag1

SHAP Dependence Plot for temperature_2m_max_lag3, Class 2 - Sulawesi (Train_Val Set)

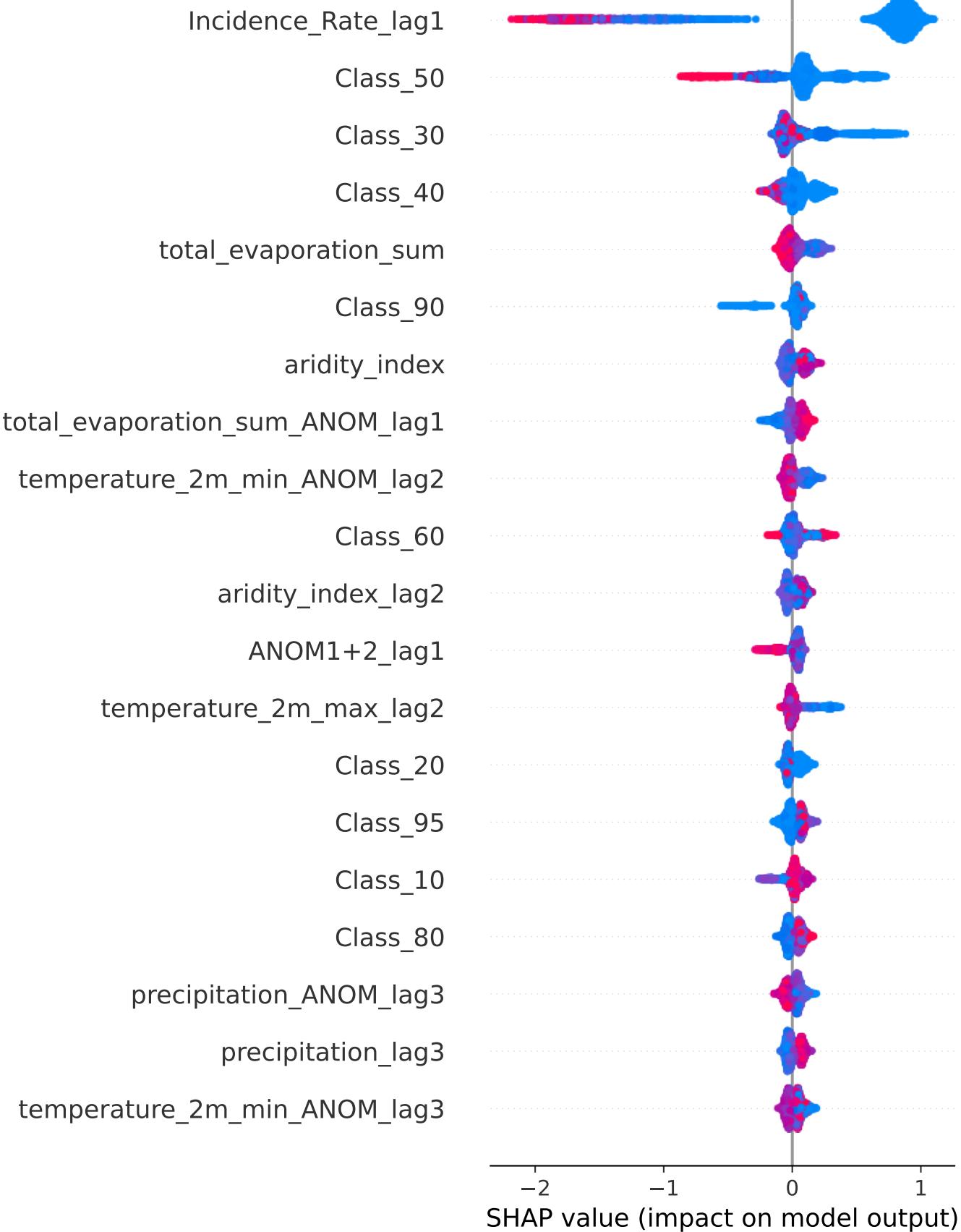


Confusion Matrix - Maluku-Papua (Train_Val Set)



SHAP Beeswarm Plot for Class 0 - Maluku-Papua (Train_Val_Set)

High

Feature value
Low

SHAP Beeswarm Plot for Class 1 - Maluku-Papua (Train_Val_Set)

High

Feature value

Low

SHAP value (impact on model output)

Class_50

Incidence_Rate_lag1

Class_90

Class_40

Class_30

precipitation

potential_evaporation_sum_ANOM_lag3

potential_evaporation_sum_ANOM_lag1

temperature_2m_min_ANOM_lag3

temperature_2m_min_ANOM_lag2

temperature_2m_ANOM_lag1

Class_10

DMI_East

precipitation_ANOM

temperature_2m_max_lag1

total_evaporation_sum_ANOM_lag2

temperature_2m_max_ANOM_lag2

total_evaporation_sum_ANOM_lag3

total_evaporation_sum_lag1

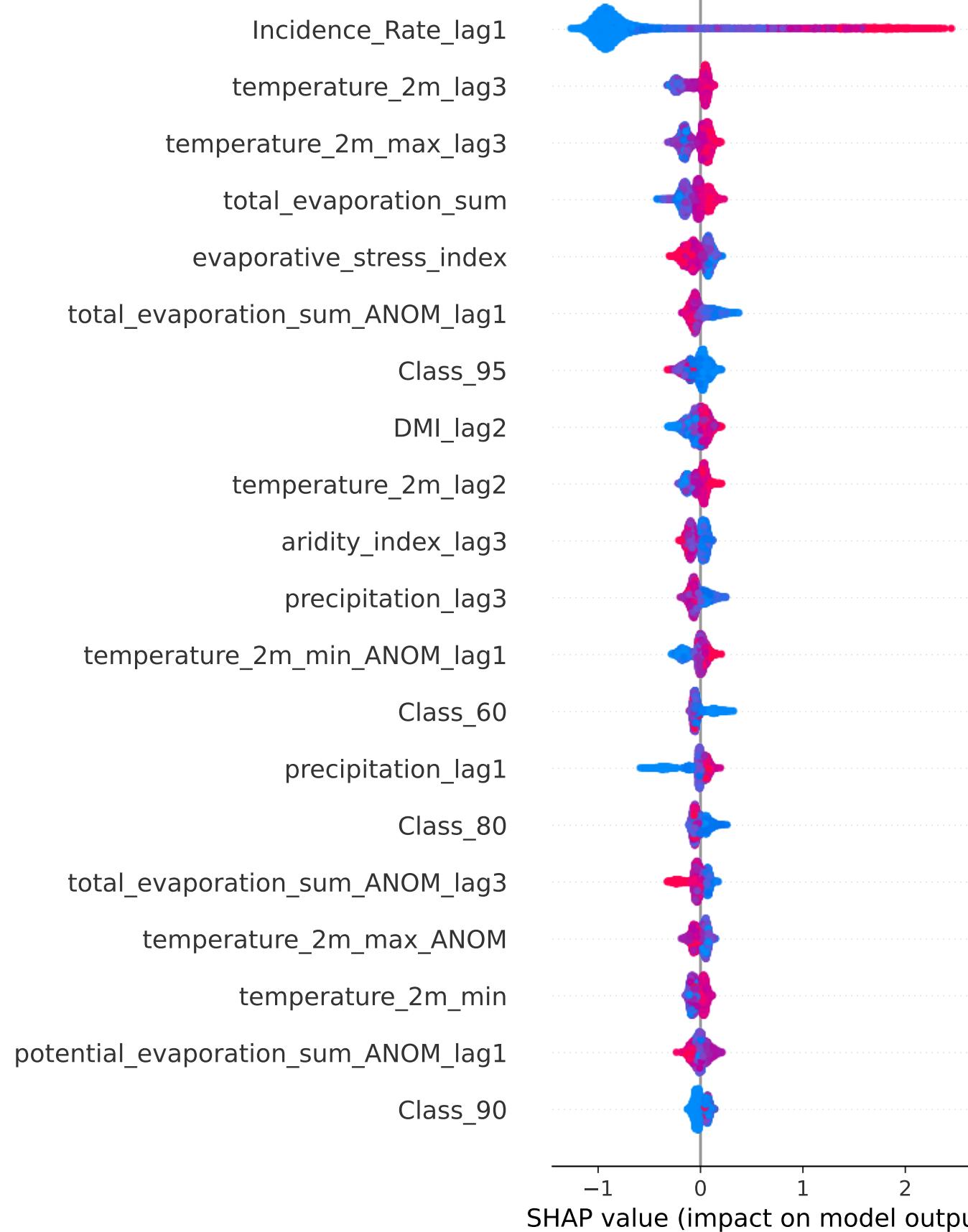
Class_20

SHAP Beeswarm Plot for Class 2 - Maluku-Papua (Train_Val Set)

High

Feature value

Low



SHAP Dependence Plot for Class_50, Class 0 - Maluku-Papua (Train_Val Set)

SHAP value for
Class_50

0.8

0.6

0.4

0.2

0.0

-0.2

-0.4

-0.6

-0.8

0.00

0.02

Class_50

- 24

- 23

- 22

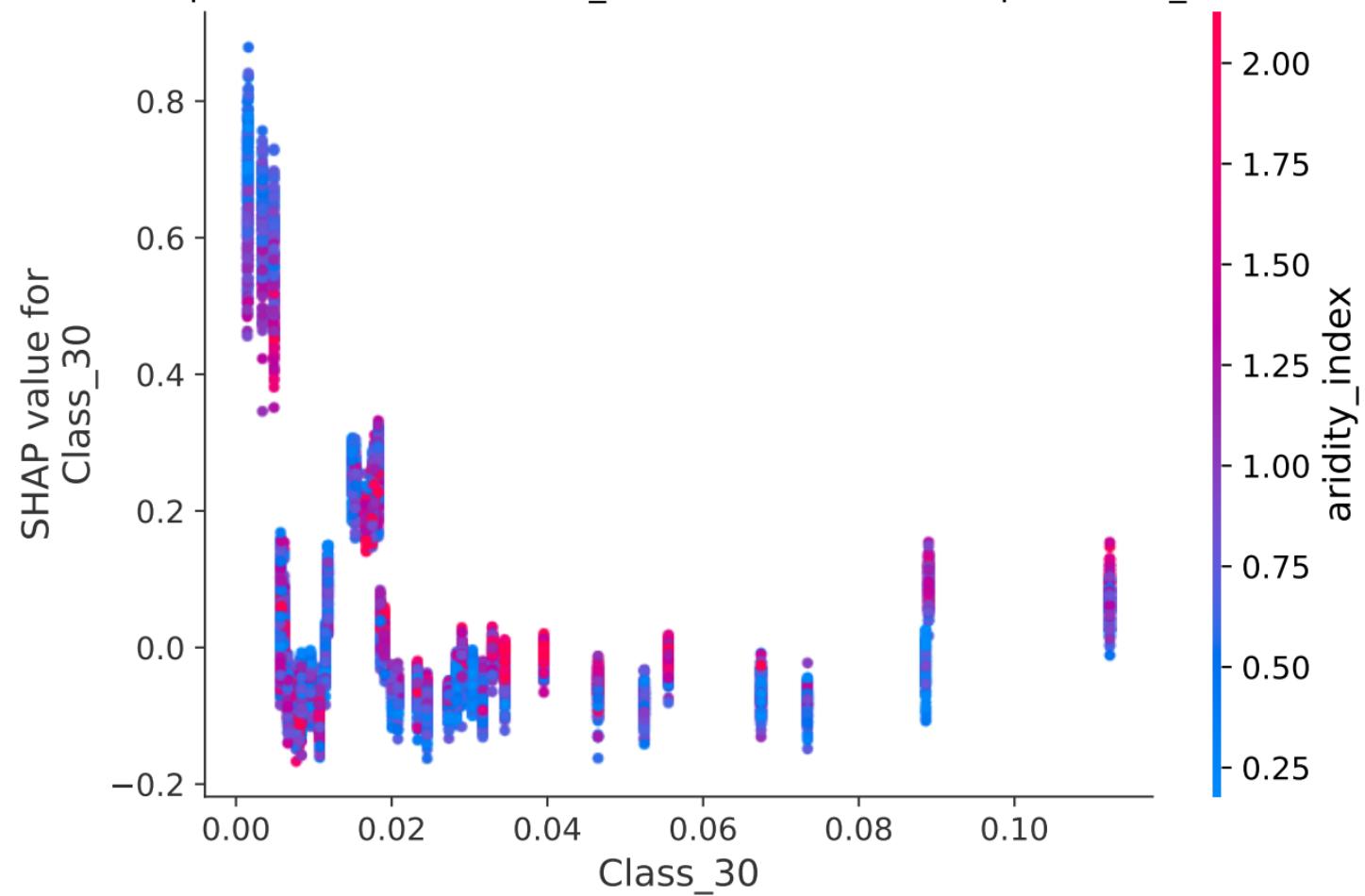
- 21

- 20

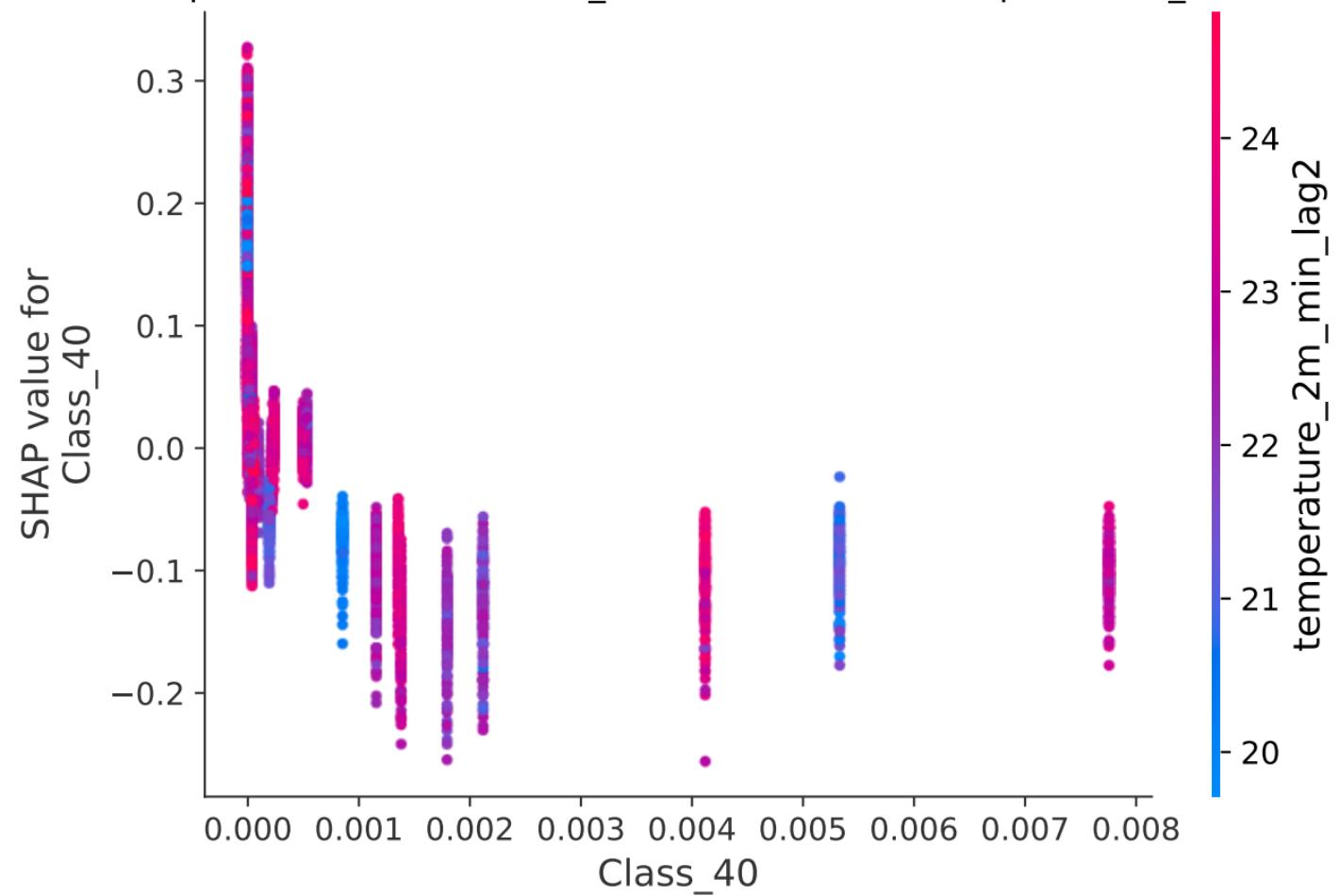
temperature_2m_min_lag2



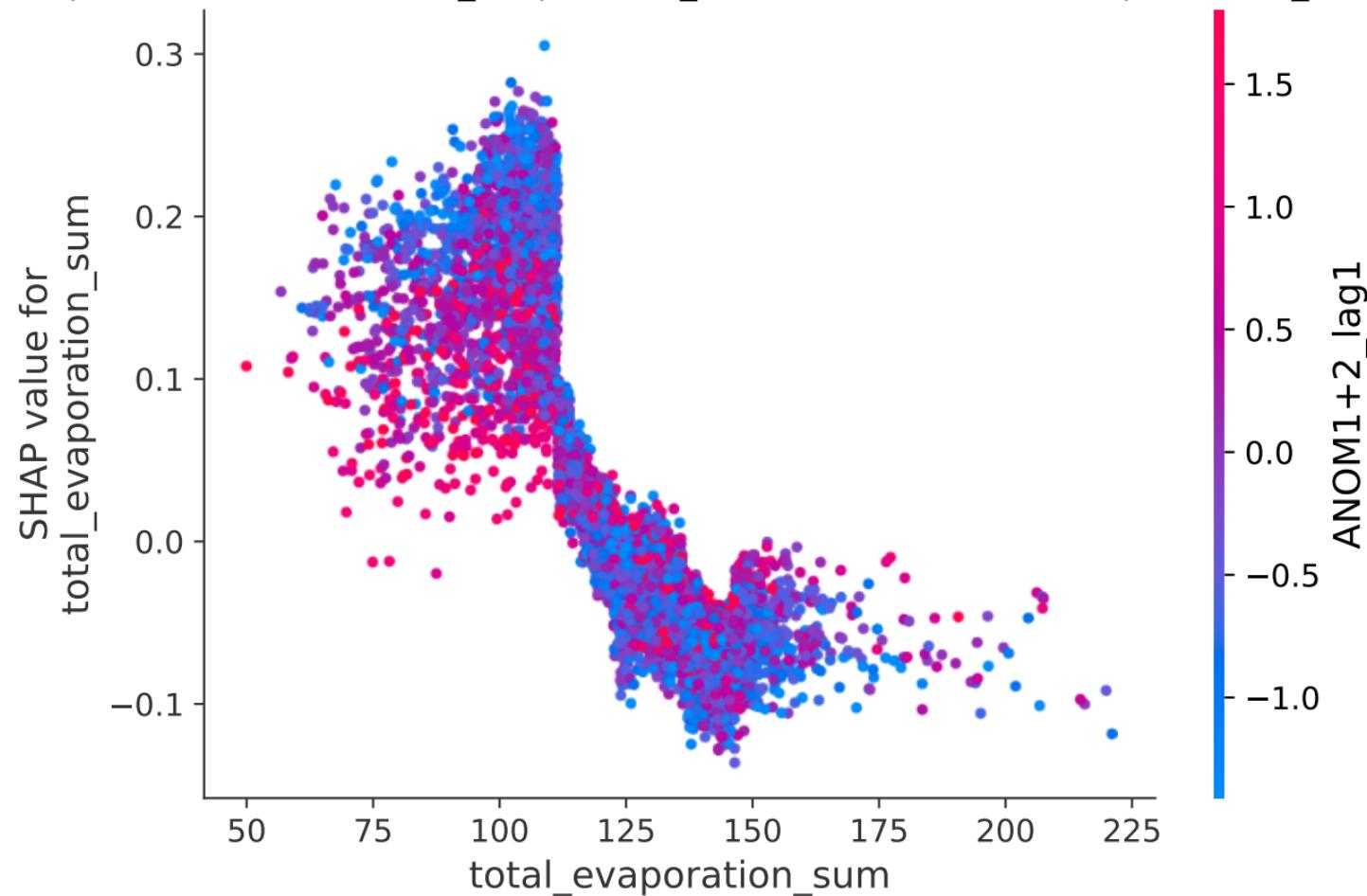
SHAP Dependence Plot for Class_30, Class 0 - Maluku-Papua (Train_Val Set)



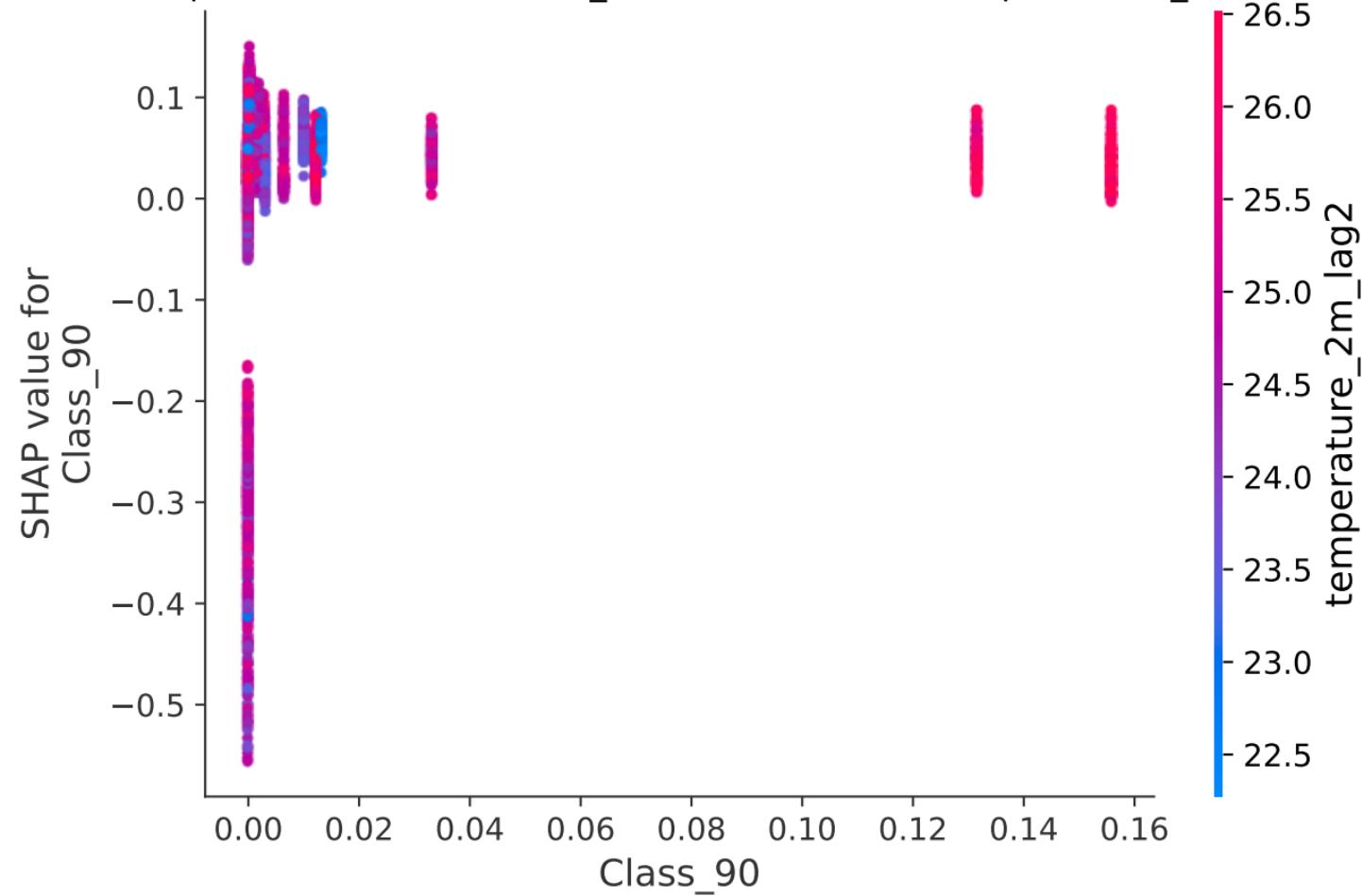
SHAP Dependence Plot for Class_40, Class 0 - Maluku-Papua (Train_Val Set)



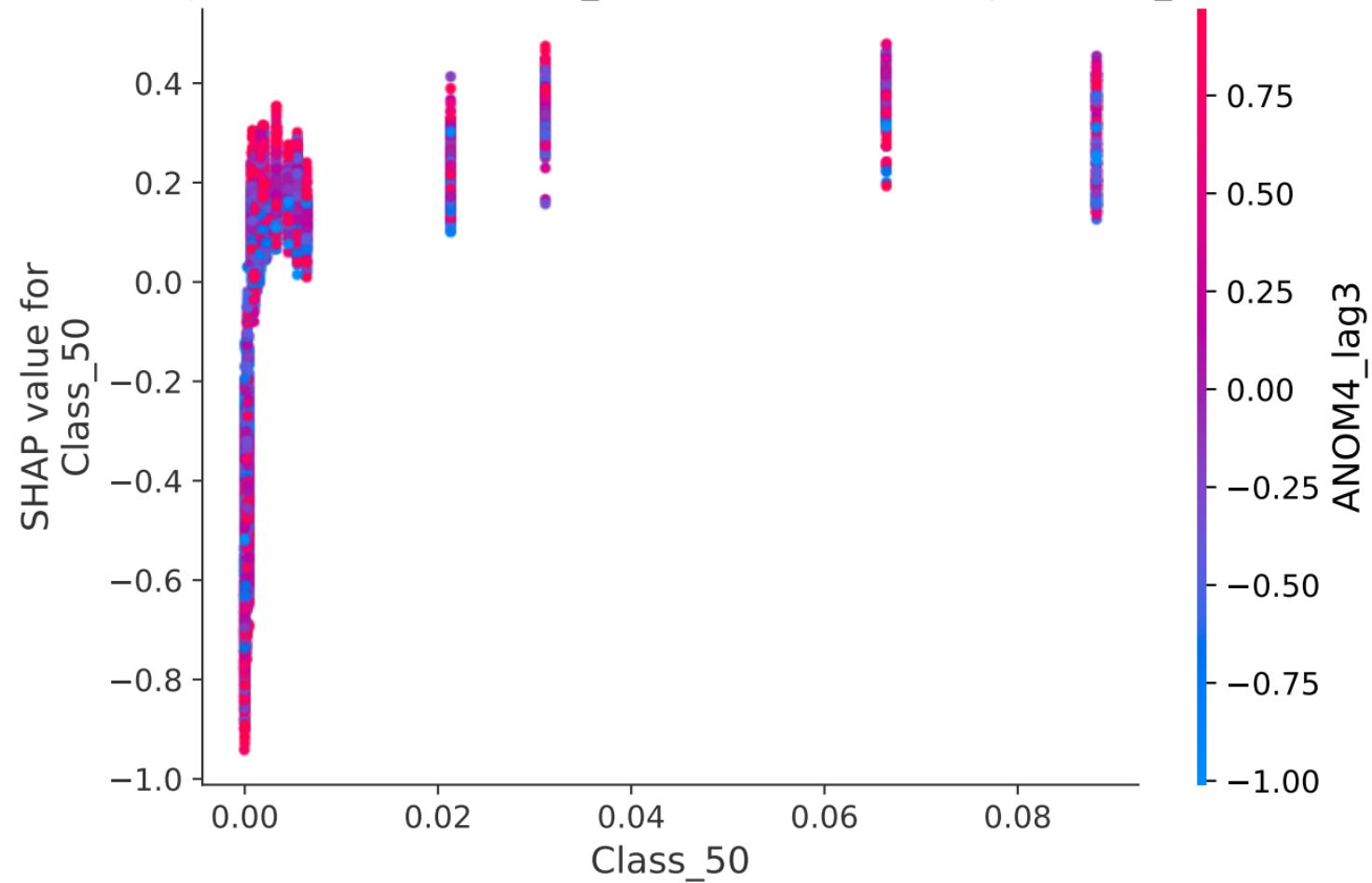
SHAP Dependence Plot for total_evaporation_sum, Class 0 - Maluku-Papua (Train_Val Set)



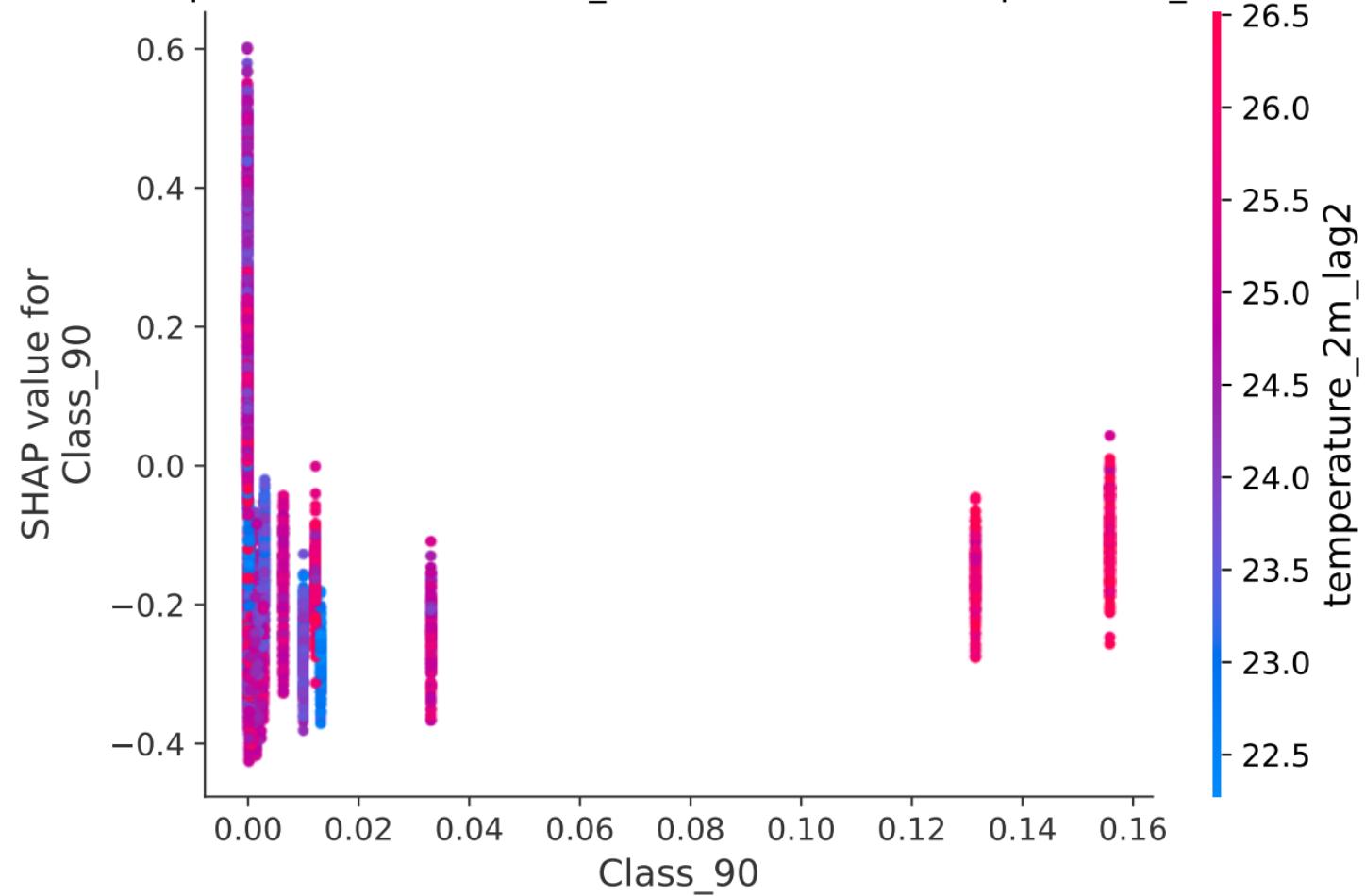
SHAP Dependence Plot for Class_90, Class 0 - Maluku-Papua (Train_Val Set)



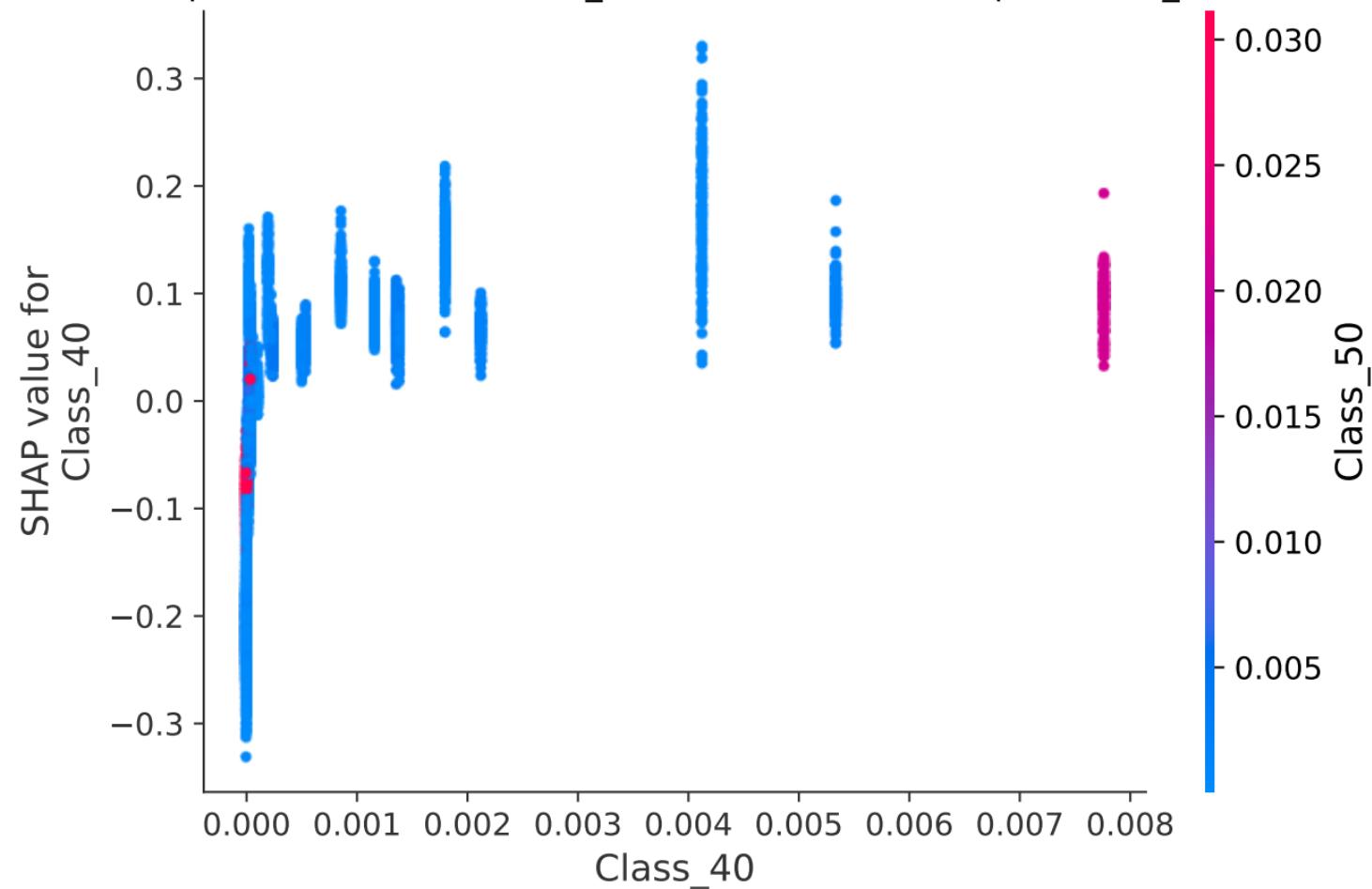
SHAP Dependence Plot for Class_50, Class 1 - Maluku-Papua (Train_Val Set)



SHAP Dependence Plot for Class_90, Class 1 - Maluku-Papua (Train_Val Set)

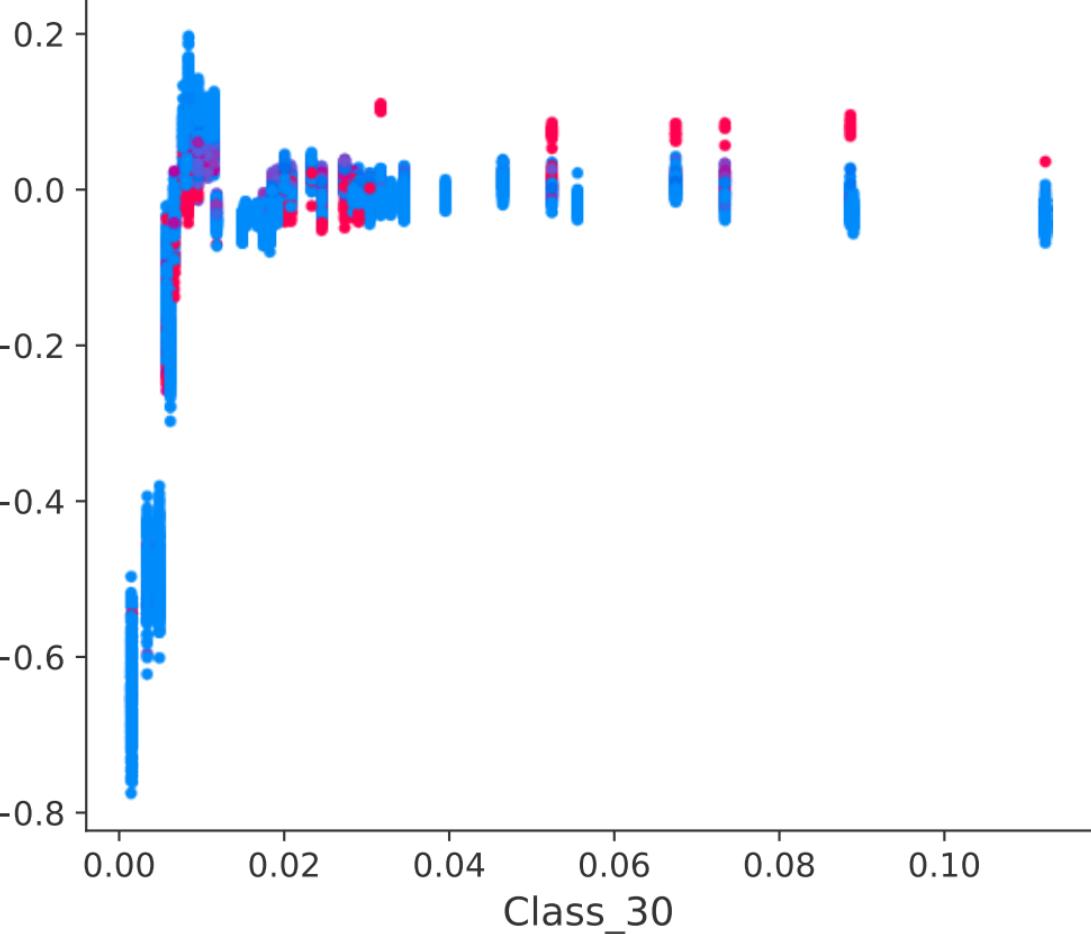


SHAP Dependence Plot for Class_40, Class 1 - Maluku-Papua (Train_Val Set)



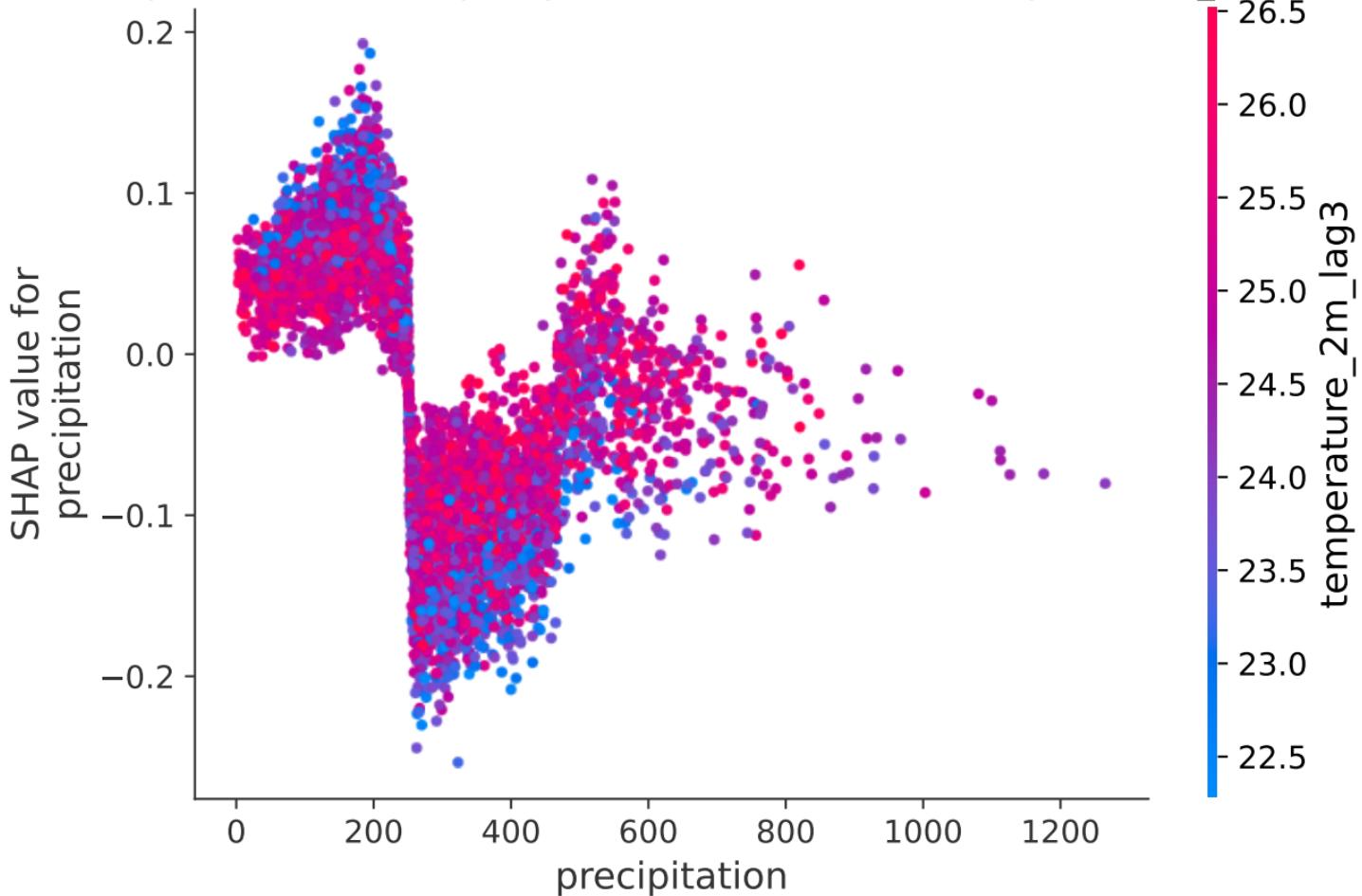
SHAP Dependence Plot for Class_30, Class 1 - Maluku-Papua (Train_Val Set)

SHAP value for
Class_30

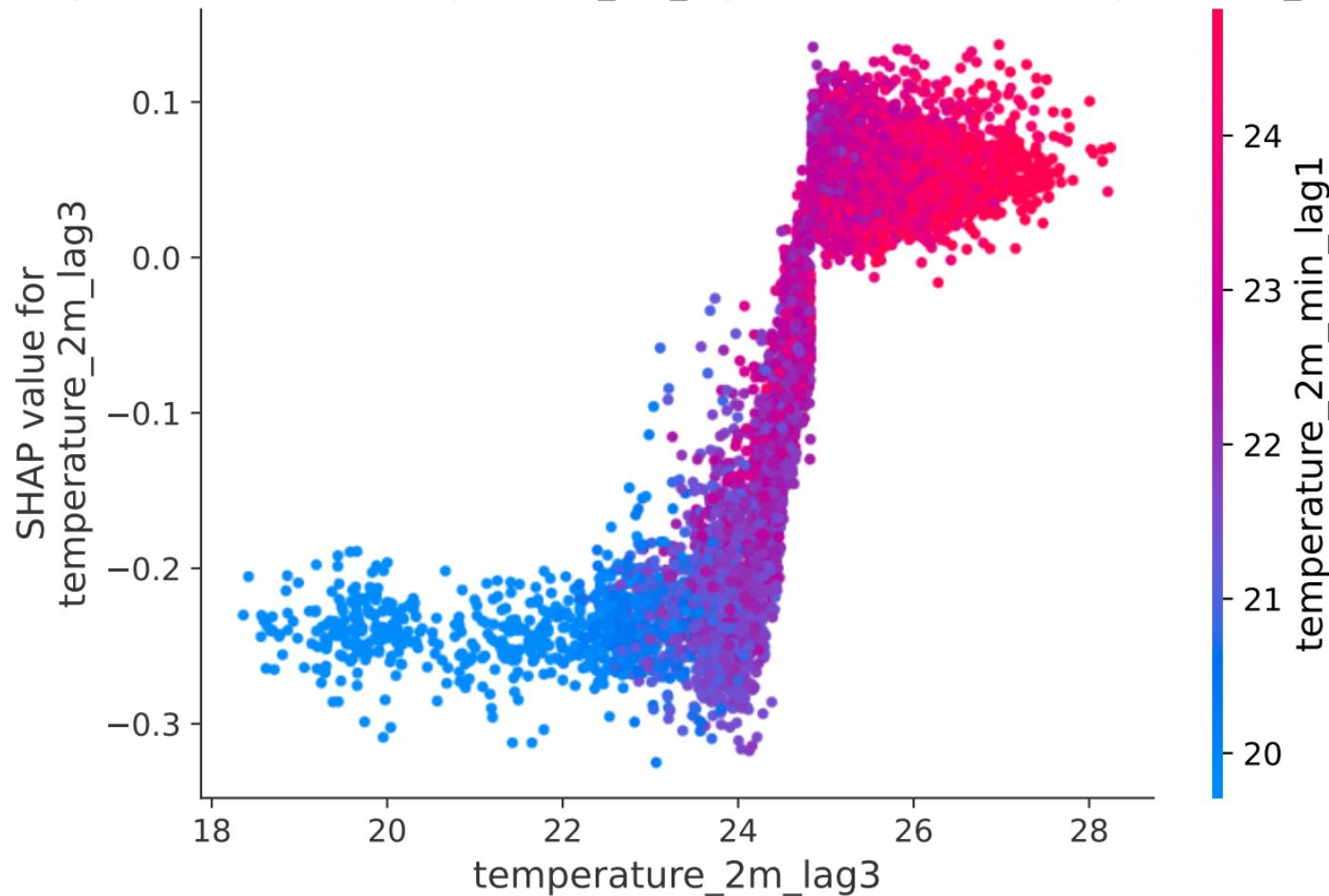


Incidence_Rate_lag1

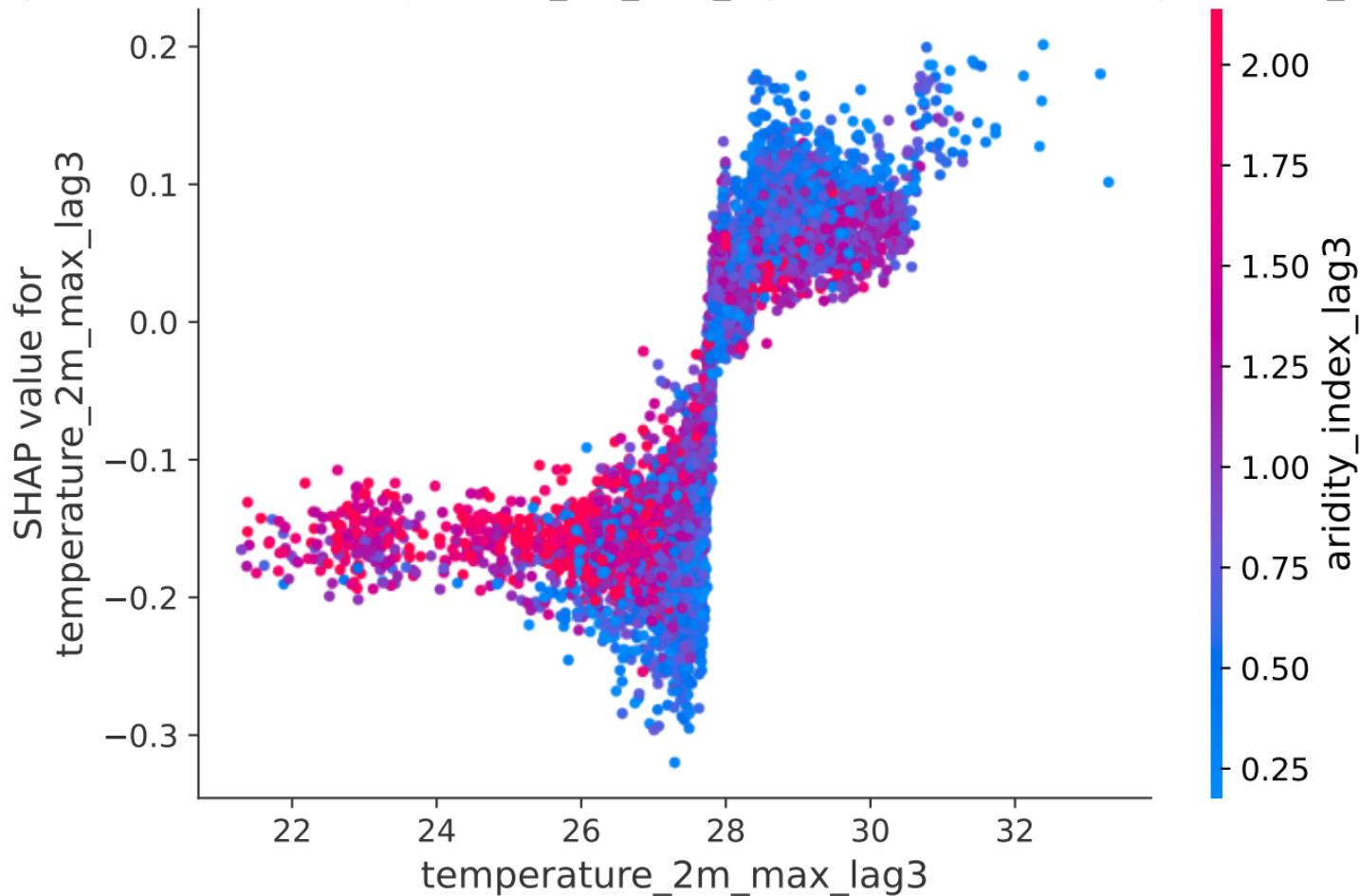
SHAP Dependence Plot for precipitation, Class 1 - Maluku-Papua (Train Val Set)



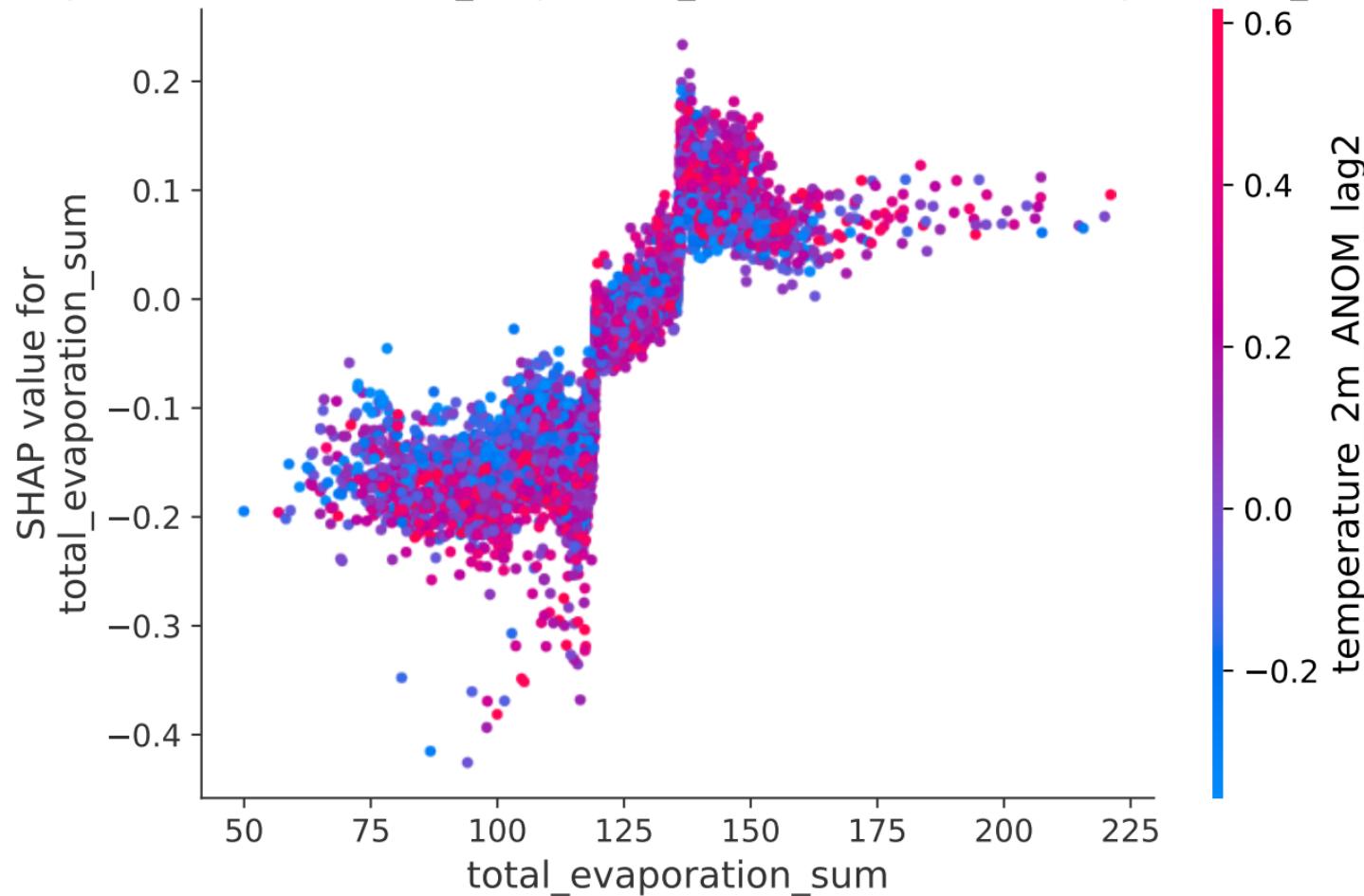
SHAP Dependence Plot for temperature_2m_lag3, Class 2 - Maluku-Papua (Train_Val Set)



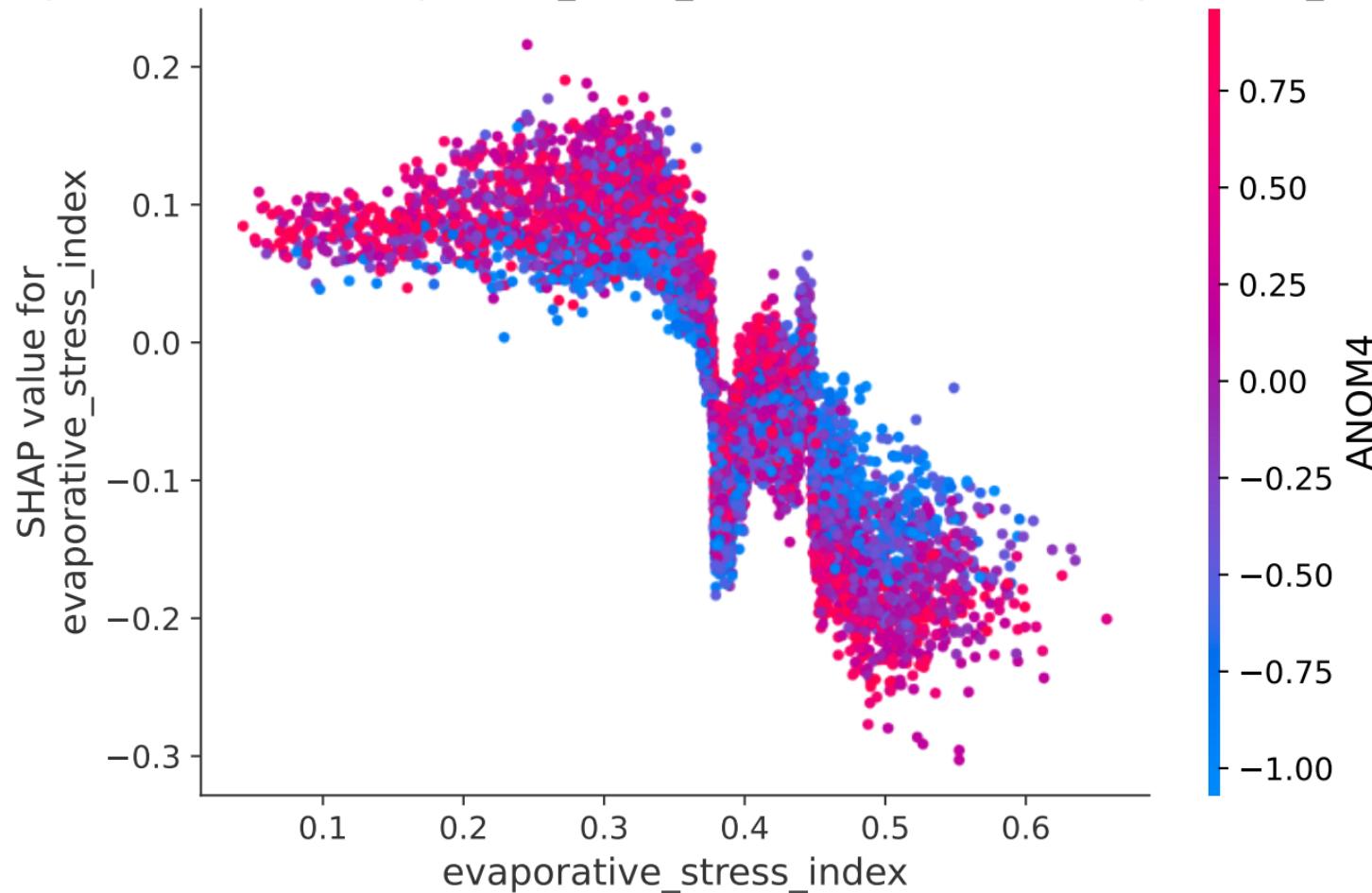
SHAP Dependence Plot for temperature_2m_max_lag3, Class 2 - Maluku-Papua (Train_Val Set)



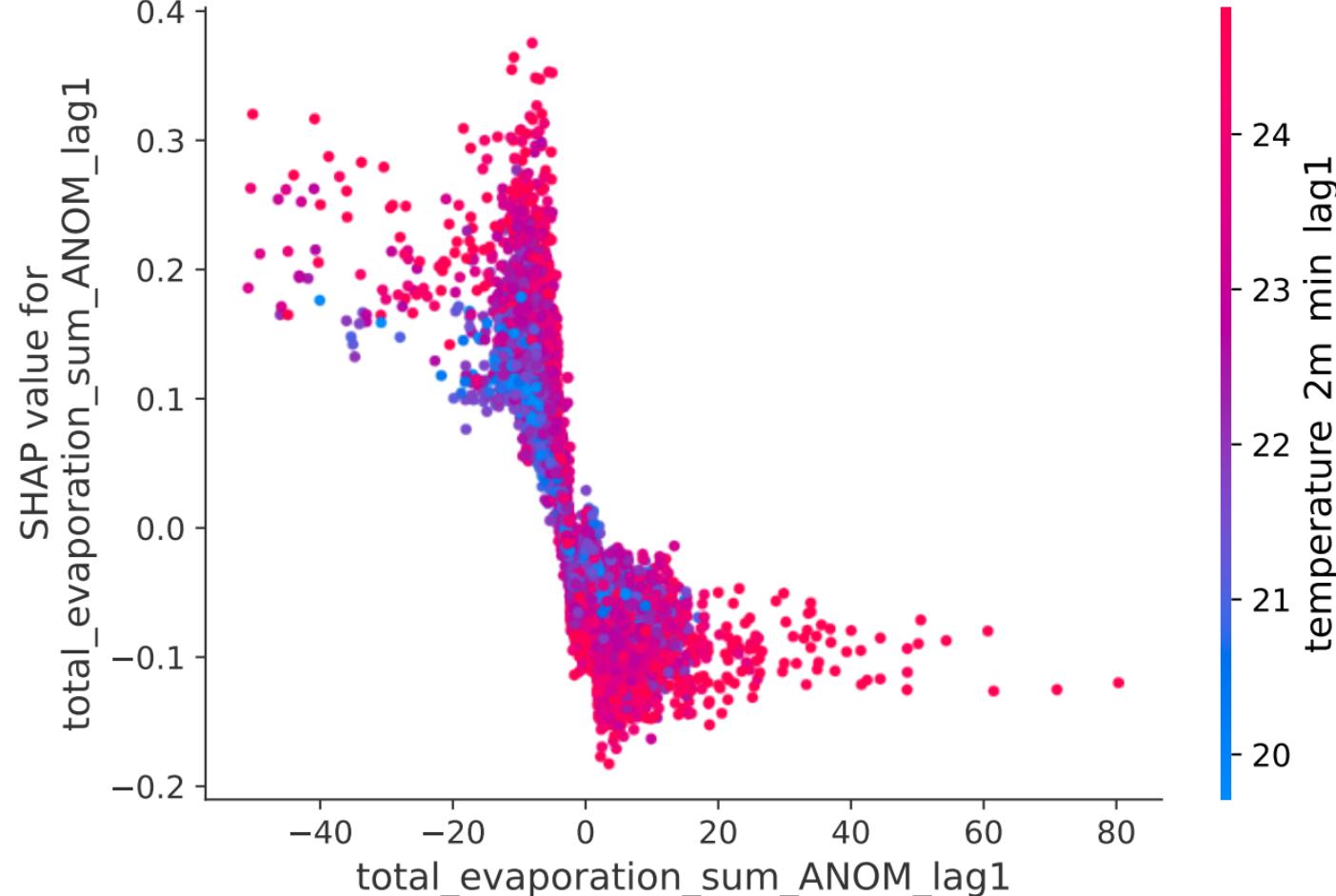
SHAP Dependence Plot for total_evaporation_sum, Class 2 - Maluku-Papua (Train_Val Set)



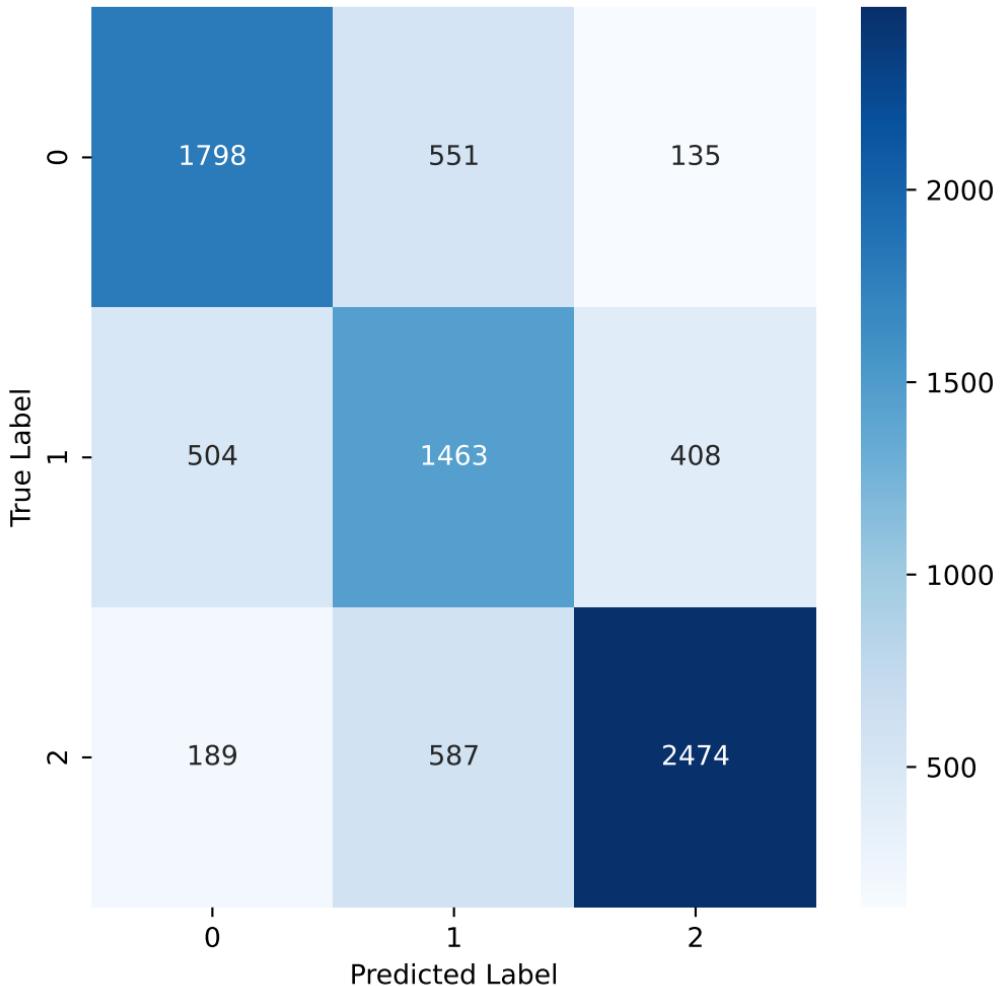
SHAP Dependence Plot for evaporative_stress_index, Class 2 - Maluku-Papua (Train_Val Set)



SHAP Dependence Plot for total_evaporation_sum_ANOM_lag1, Class 2 - Maluku-Papua (Train_Val Set)



Confusion Matrix - Kalimantan (Train_Val Set)

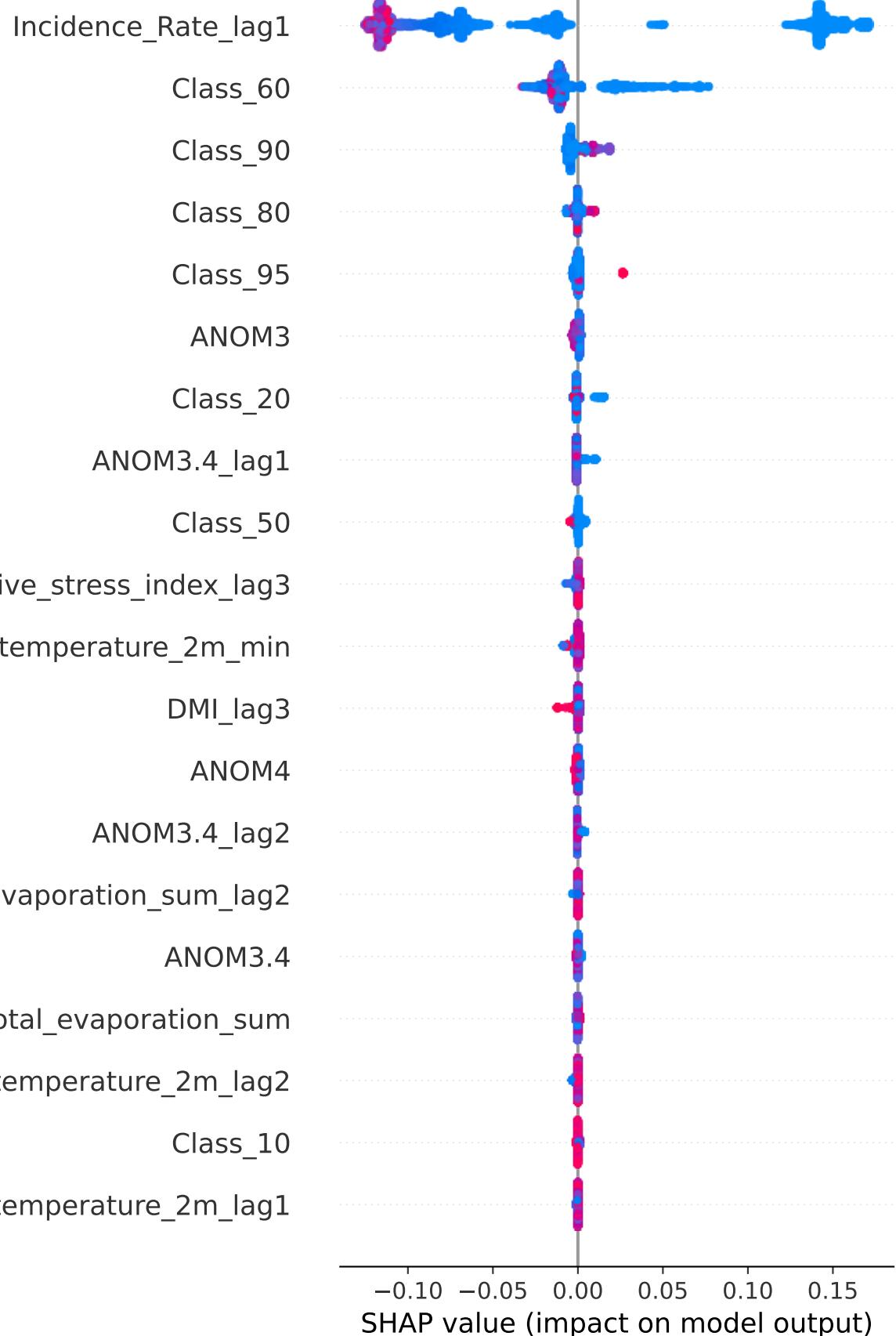


SHAP Beeswarm Plot for Class 0 - Kalimantan (Train_Val_Set)

High

Feature value

Low



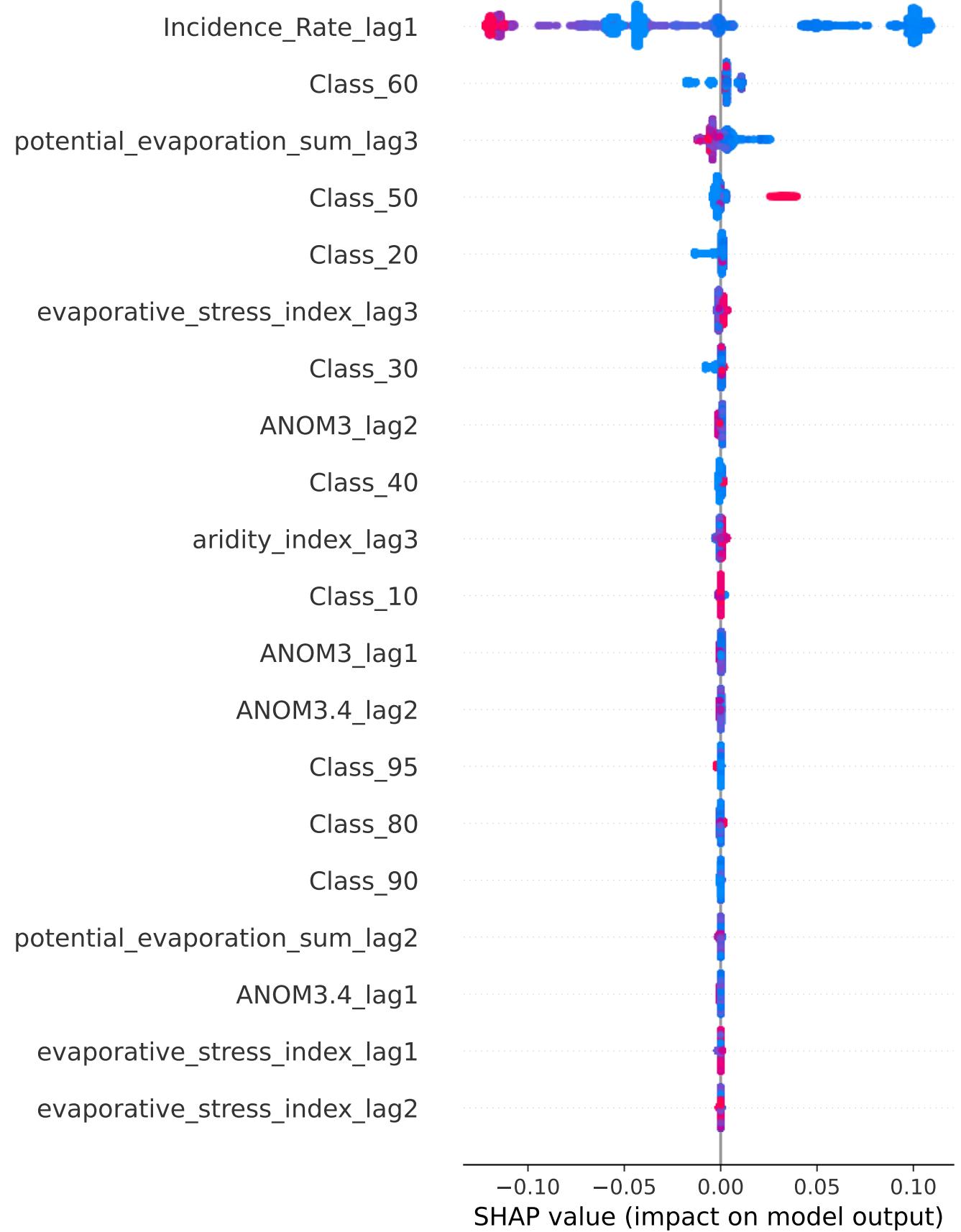
SHAP Beeswarm Plot for Class 1 - Kalimantan (Train_Val Set)

High

Feature value

Low

SHAP value (impact on model output)

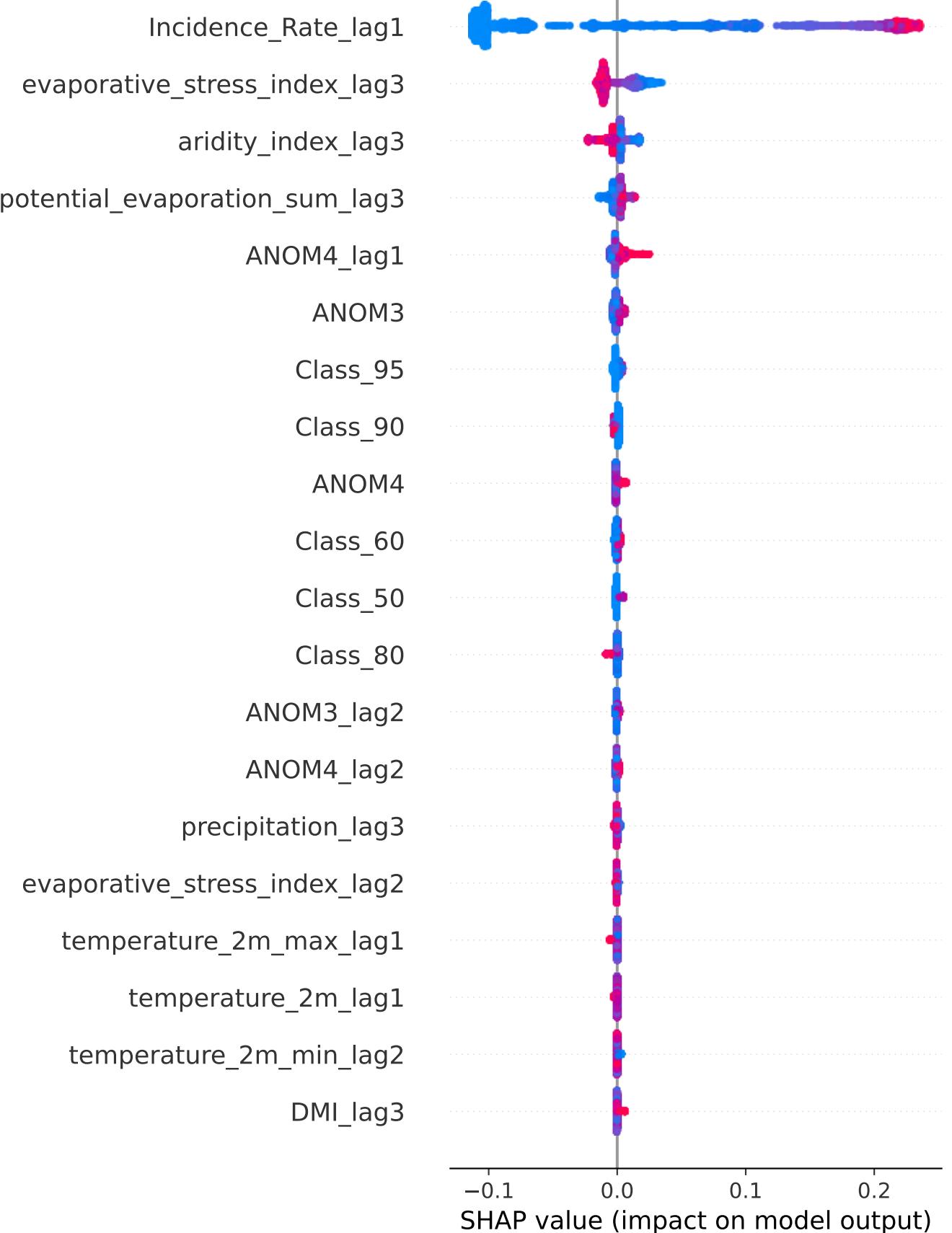


SHAP Beeswarm Plot for Class 2 - Kalimantan (Train_Val Set)

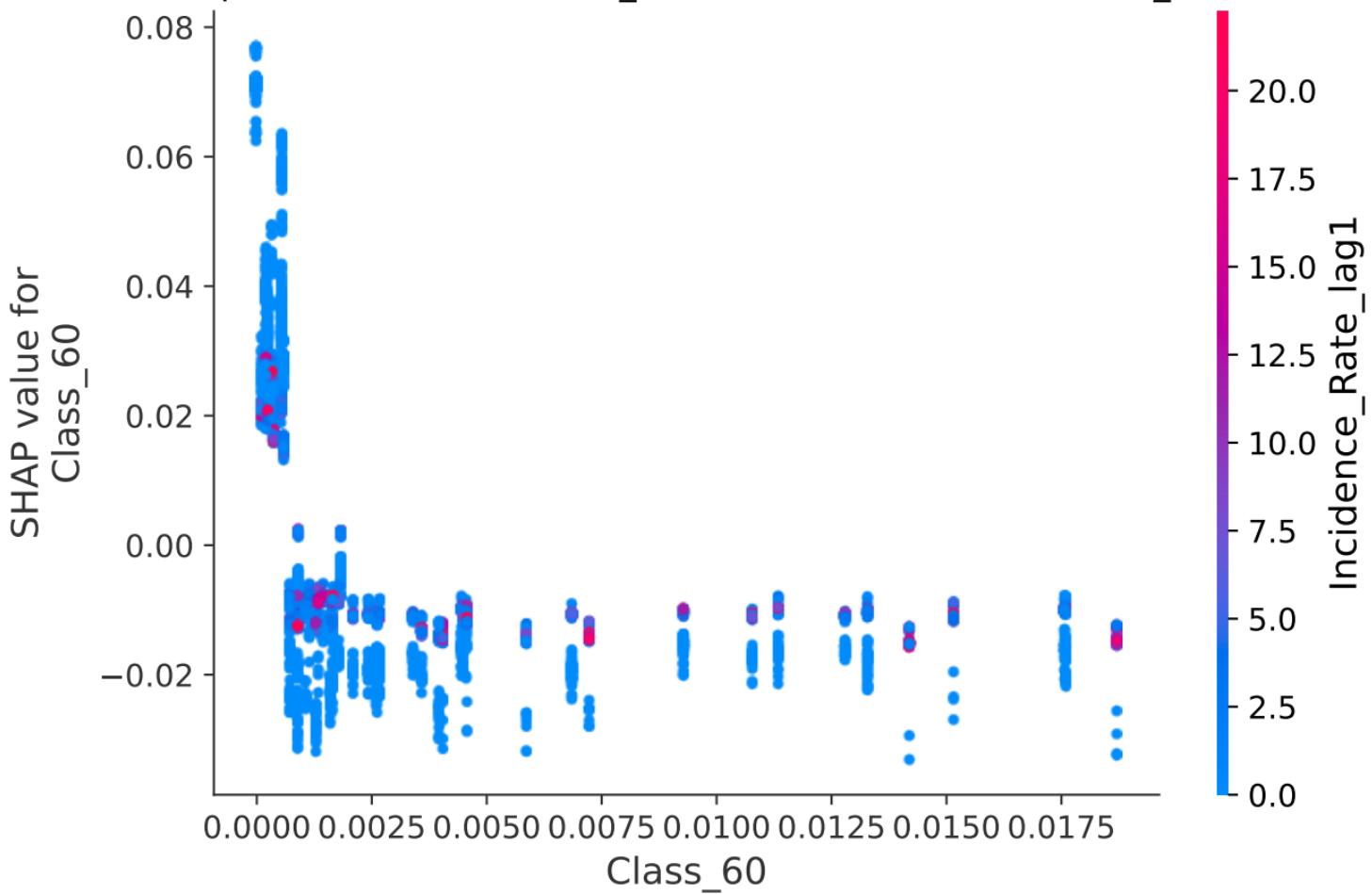
High

Feature value

Low

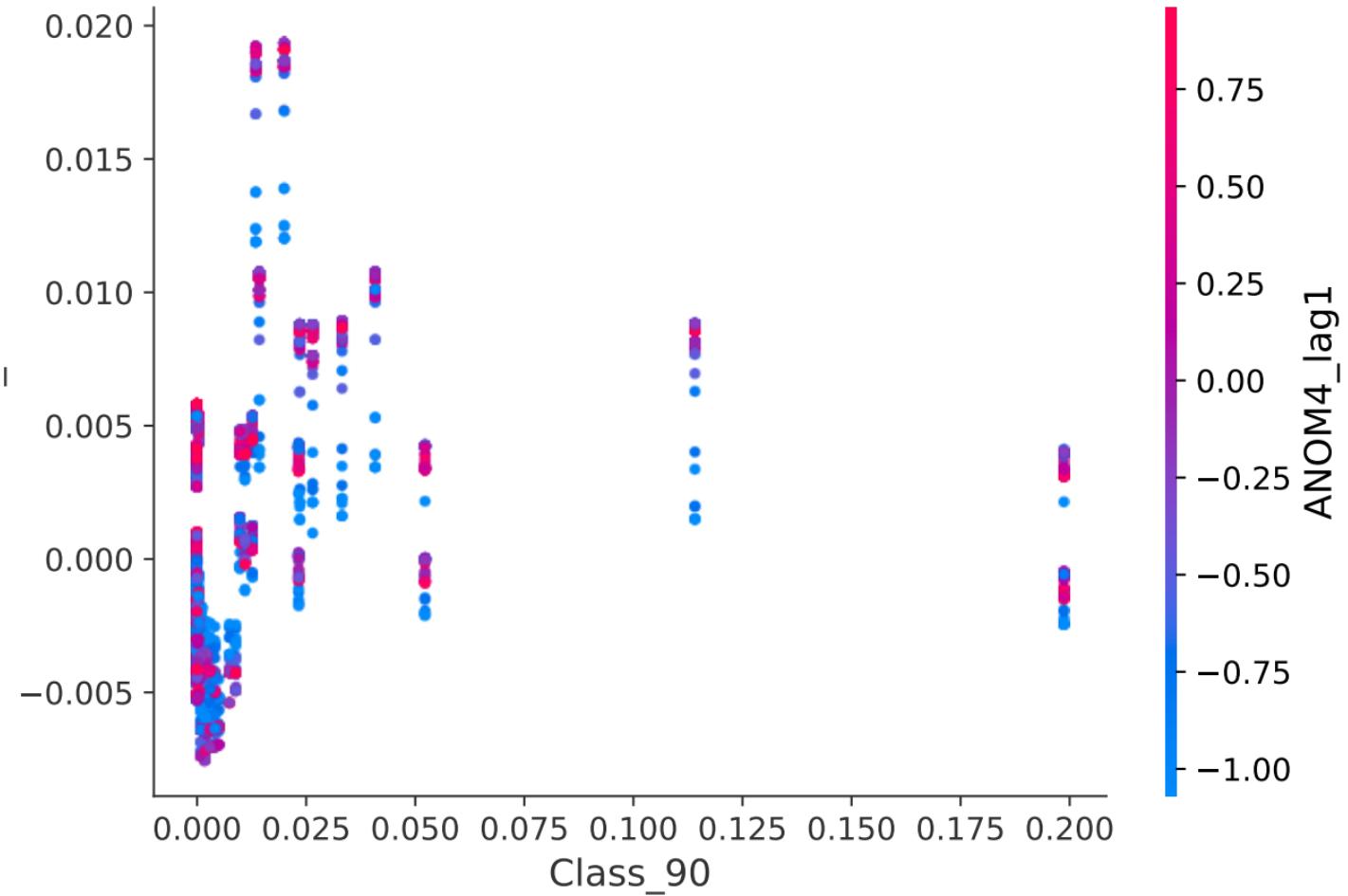


SHAP Dependence Plot for Class_60, Class 0 - Kalimantan (Train_Val Set)

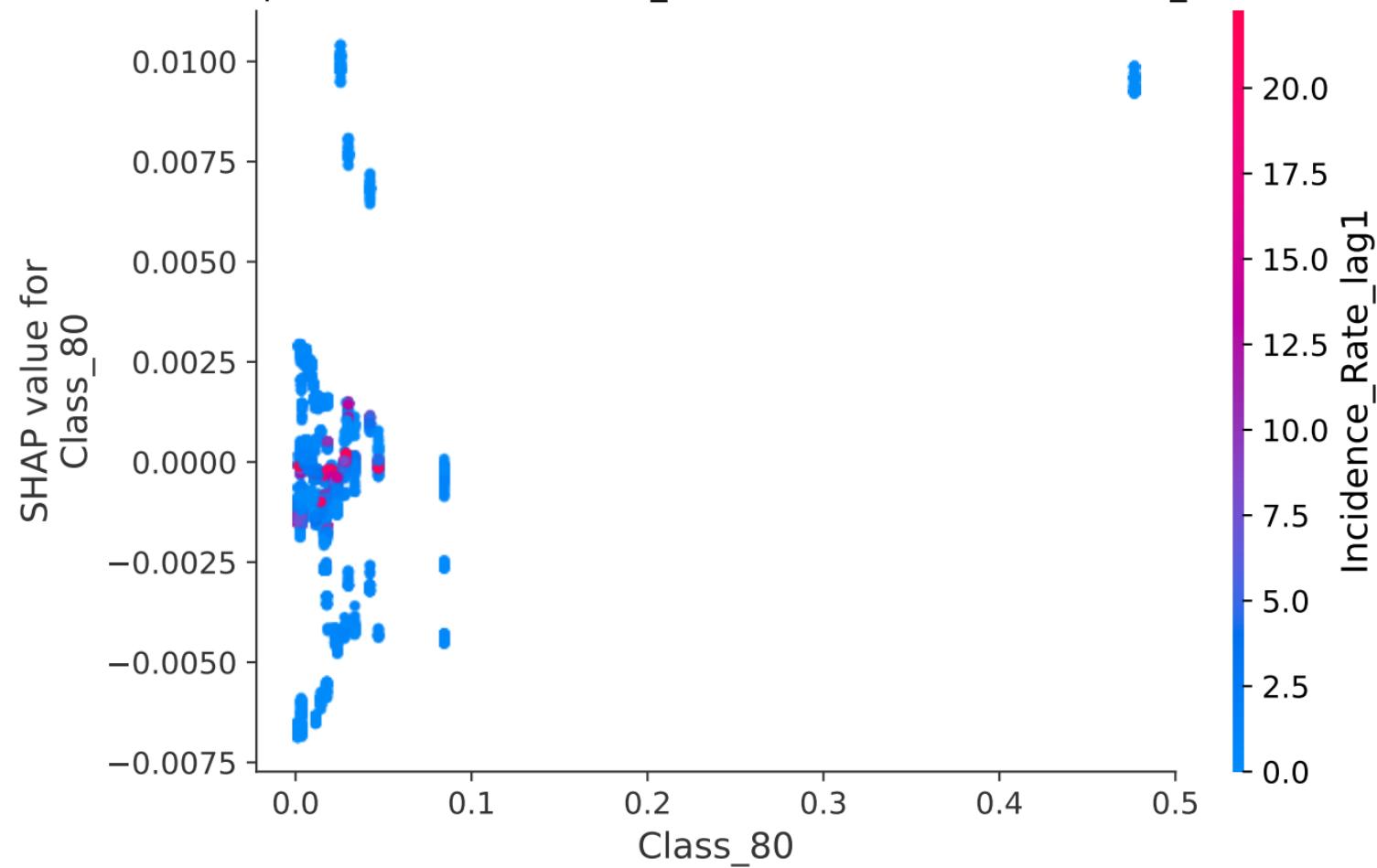


SHAP Dependence Plot for Class_90, Class 0 - Kalimantan (Train_Val Set)

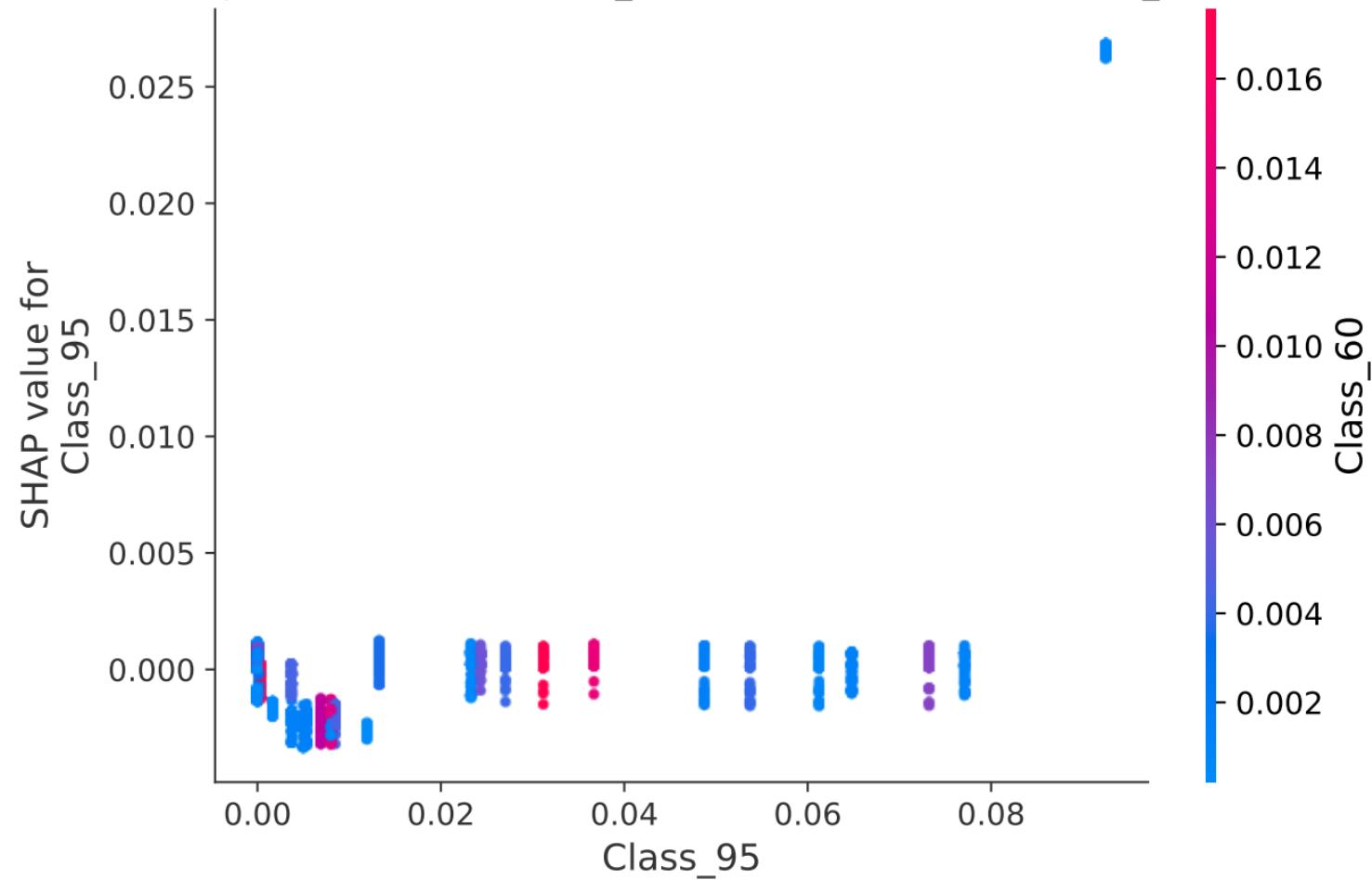
SHAP value for
Class_90



SHAP Dependence Plot for Class_80, Class 0 - Kalimantan (Train_Val Set)



SHAP Dependence Plot for Class_95, Class 0 - Kalimantan (Train_Val Set)



SHAP Dependence Plot for ANOM3, Class 0 - Kalimantan (Train_Val Set)

SHAP value for
ANOM3

0.002

0.001

0.000

-0.001

-0.002

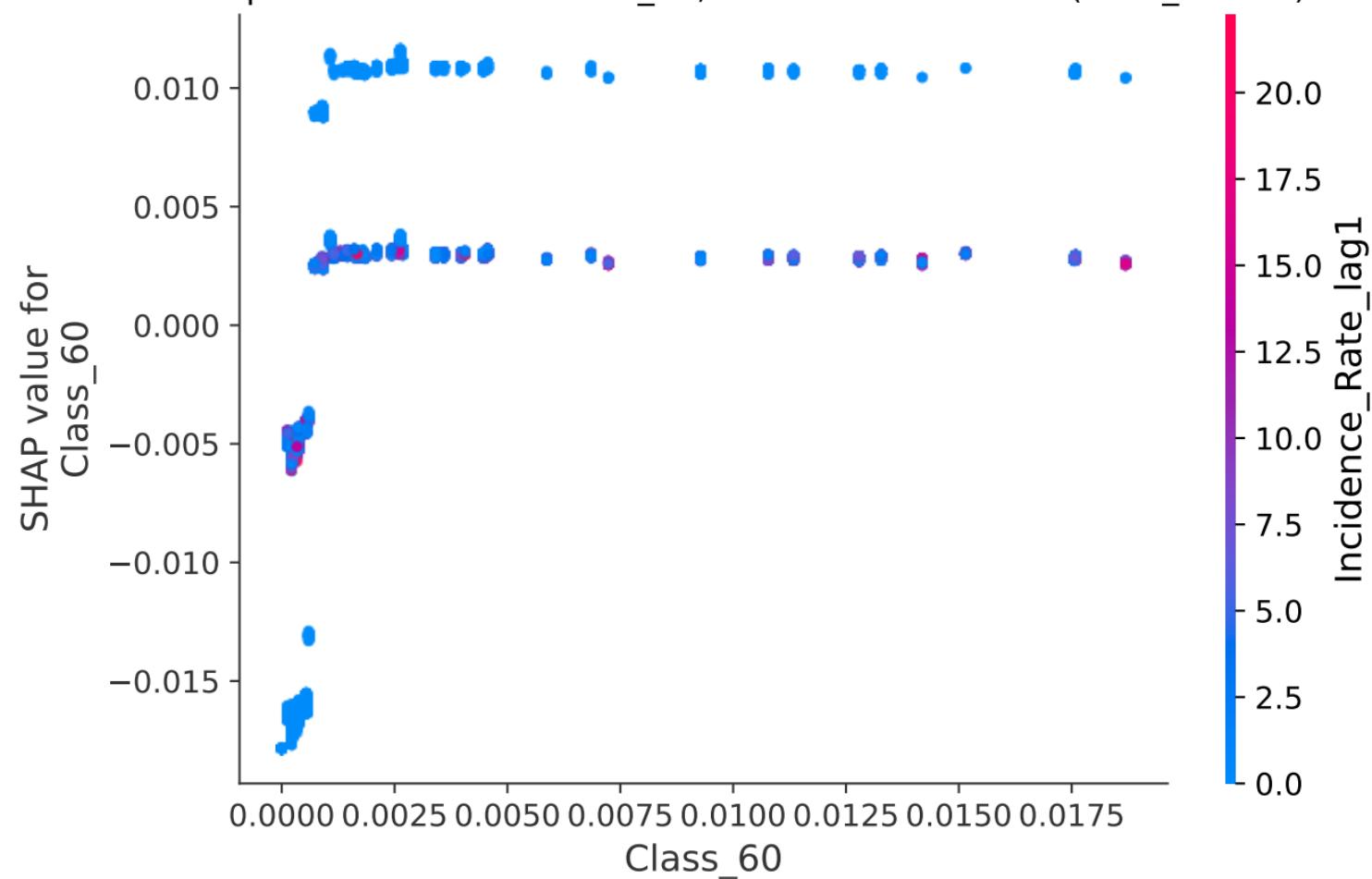
-0.003

-1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5

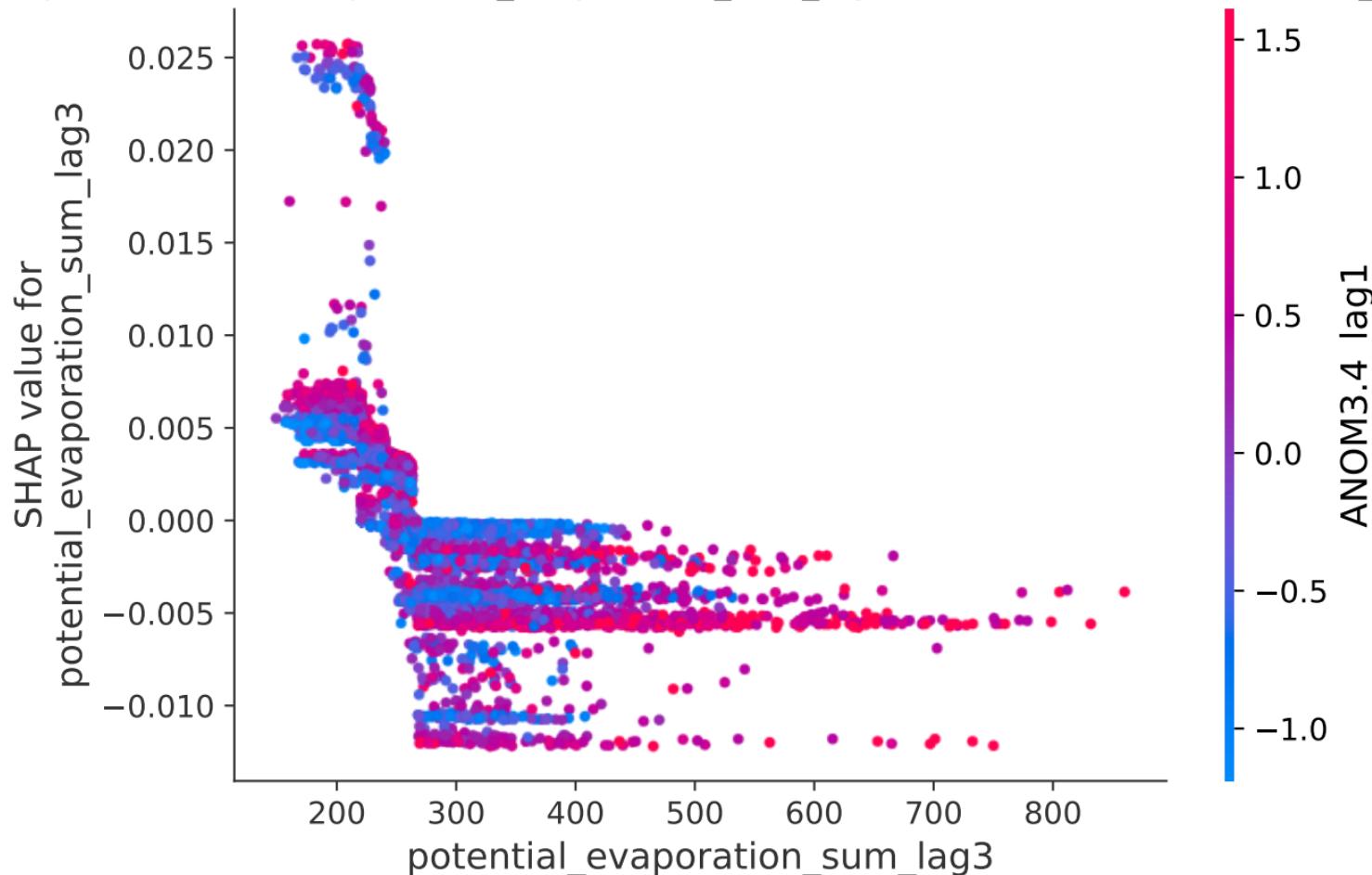
ANOM3



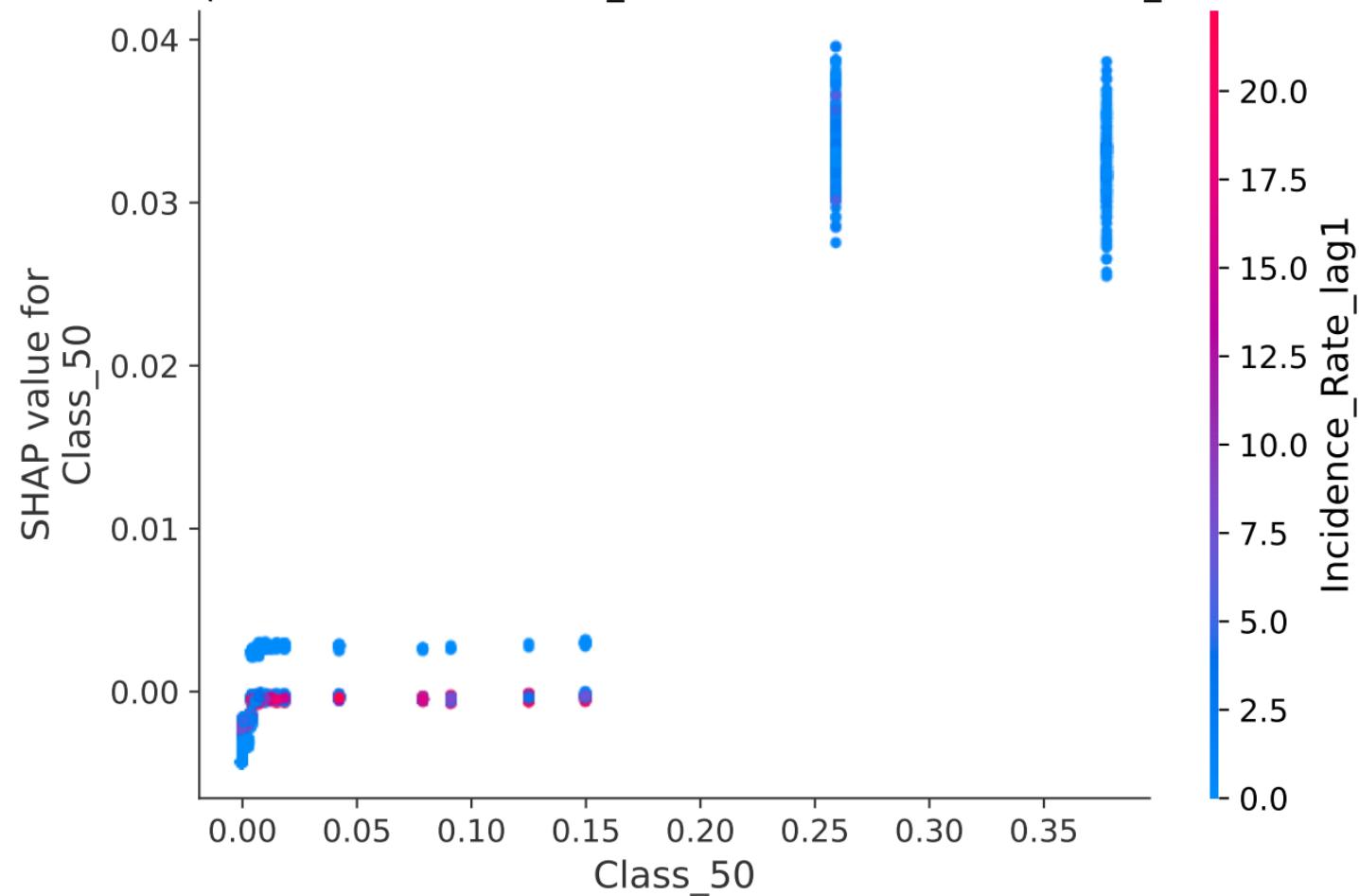
SHAP Dependence Plot for Class_60, Class 1 - Kalimantan (Train_Val Set)



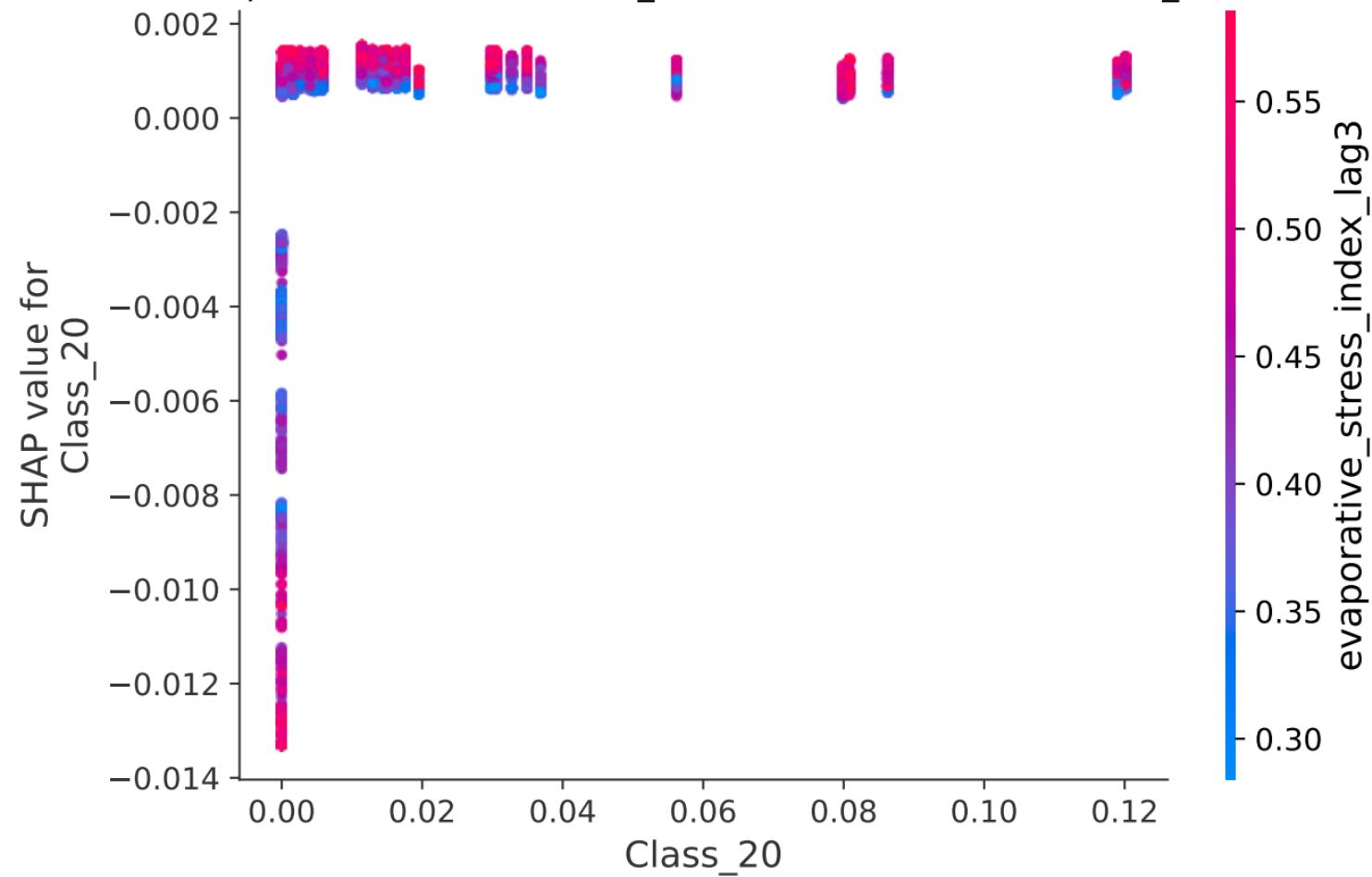
SHAP Dependence Plot for potential_evaporation_sum_lag3, Class 1 - Kalimantan (Train_Val Set)



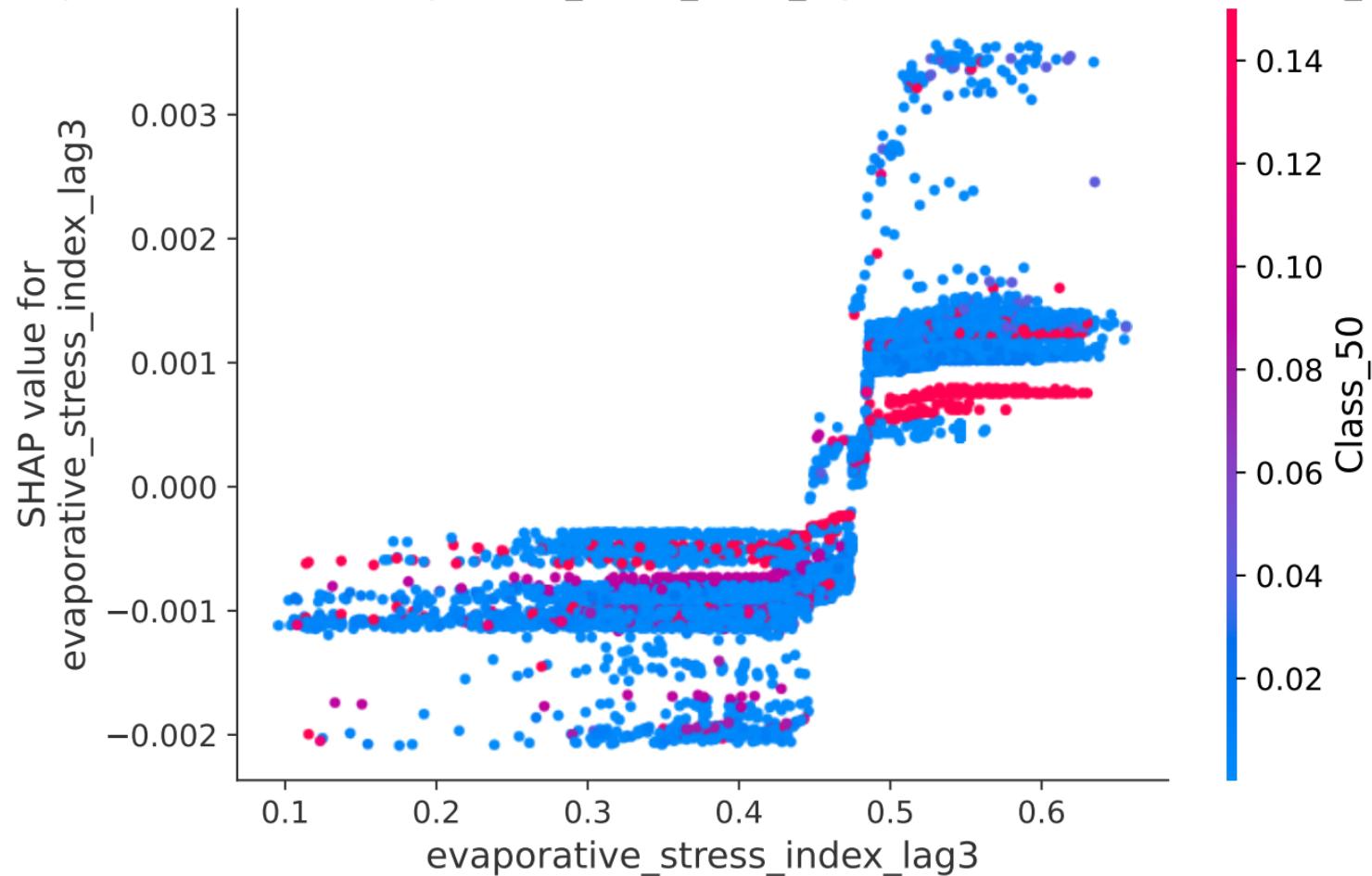
SHAP Dependence Plot for Class_50, Class 1 - Kalimantan (Train_Val Set)



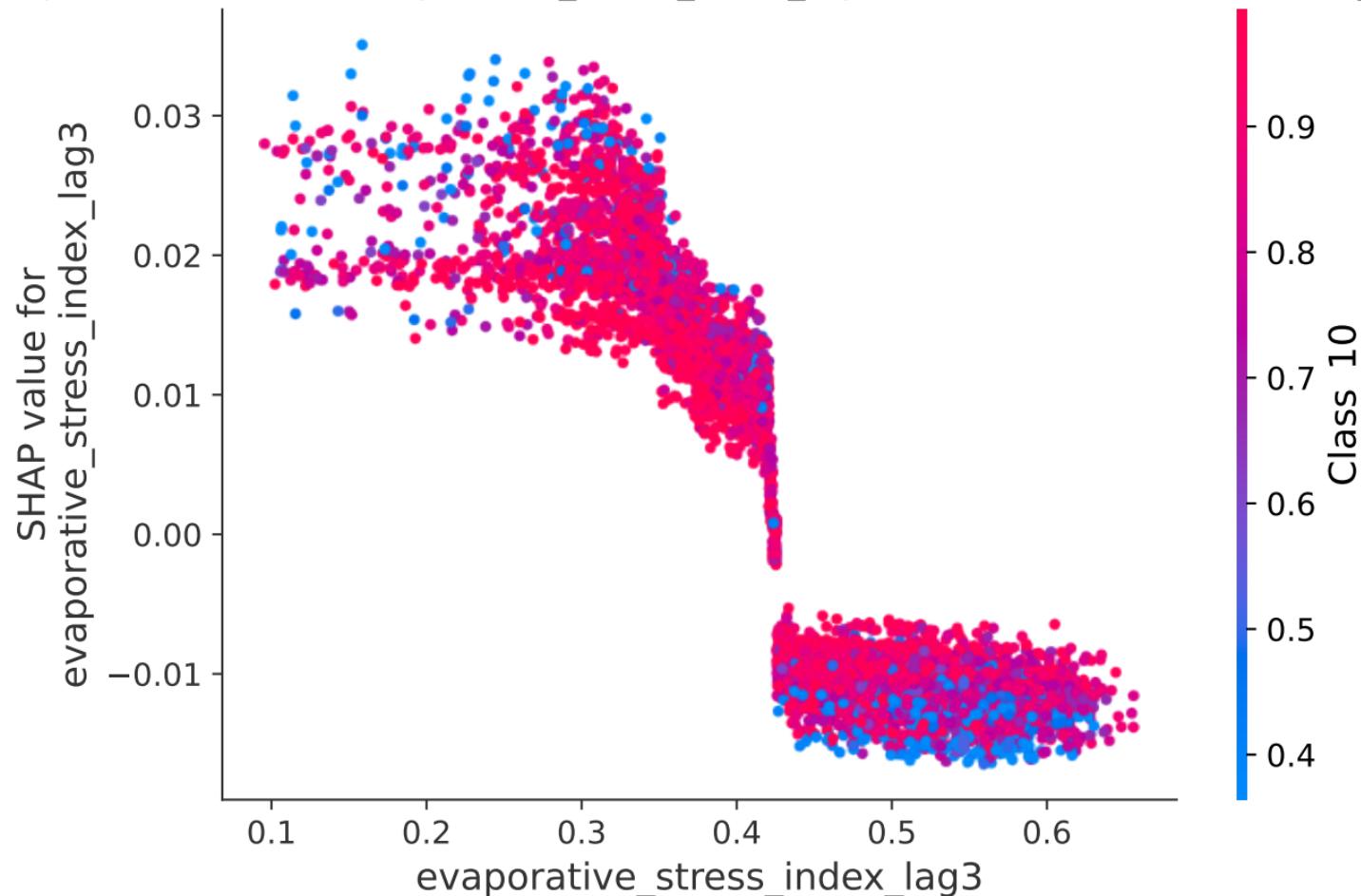
SHAP Dependence Plot for Class_20, Class 1 - Kalimantan (Train_Val Set)



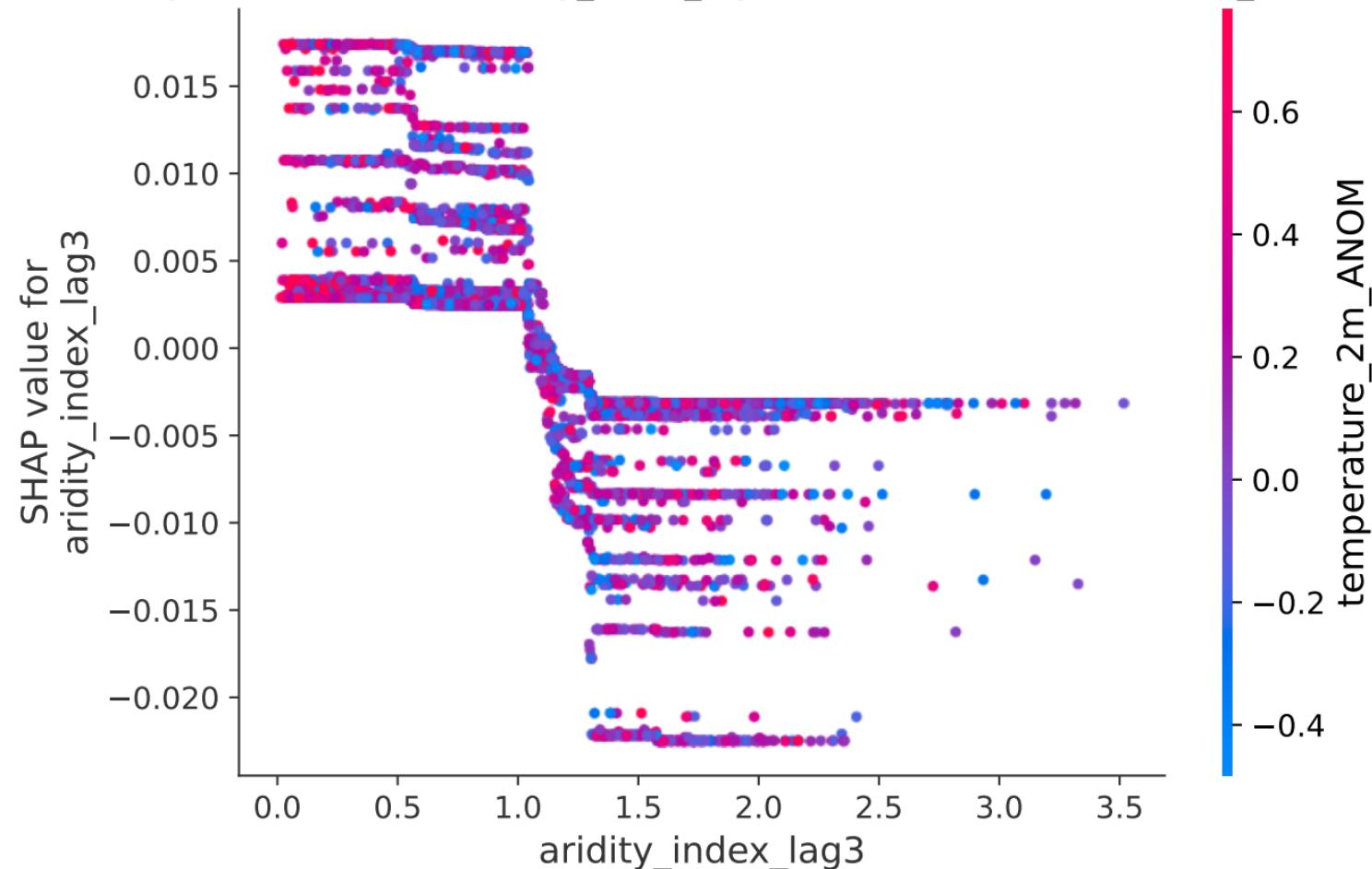
SHAP Dependence Plot for evaporative_stress_index_lag3, Class 1 - Kalimantan (Train_Val Set)



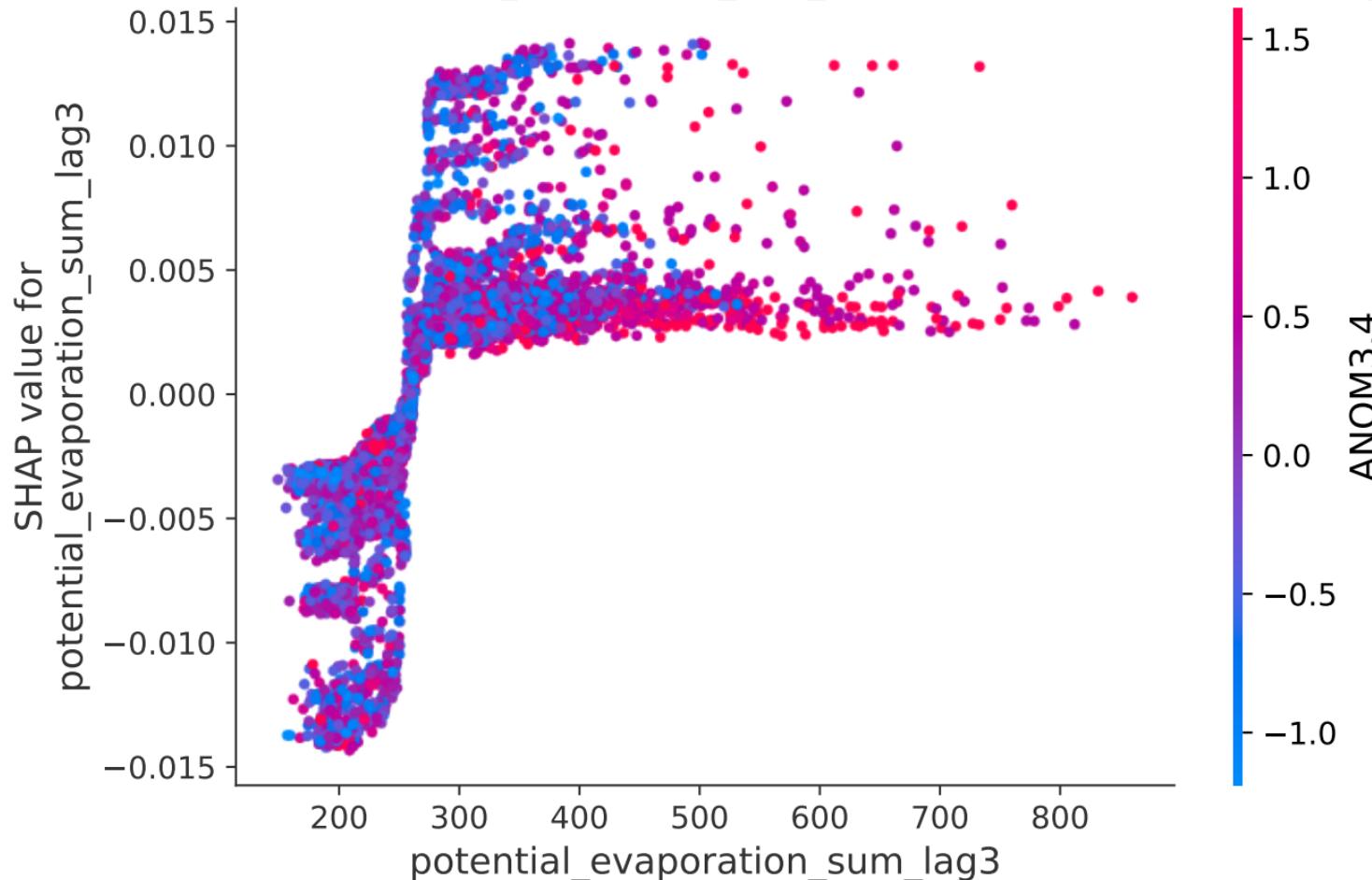
SHAP Dependence Plot for evaporative_stress_index_lag3, Class 2 - Kalimantan (Train_Val Set)



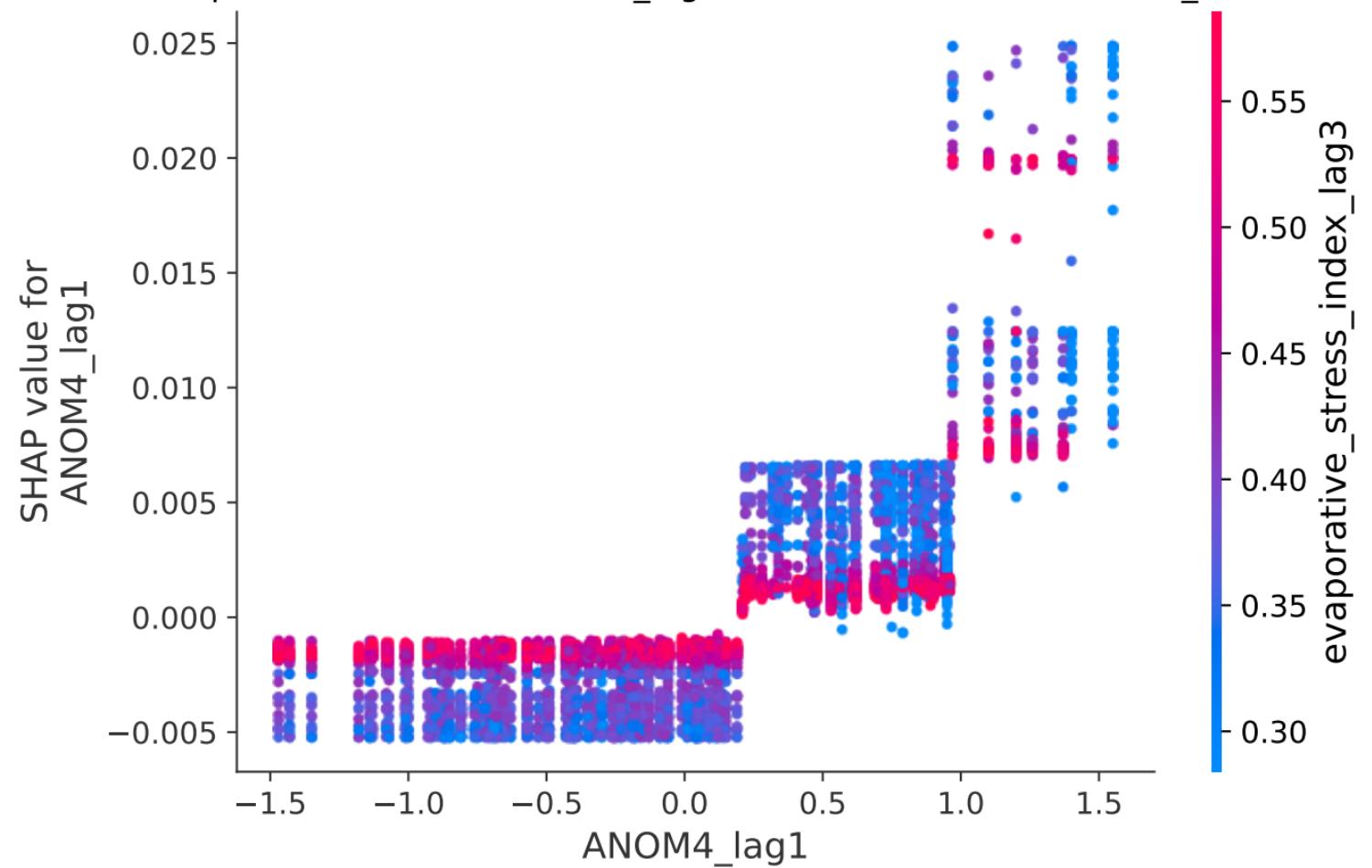
SHAP Dependence Plot for aridity_index_lag3, Class 2 - Kalimantan (Train_Val Set)



SHAP Dependence Plot for potential_evaporation_sum_lag3, Class 2 - Kalimantan (Train_Val Set)



SHAP Dependence Plot for ANOM4_lag1, Class 2 - Kalimantan (Train_Val Set)



SHAP Dependence Plot for ANOM3, Class 2 - Kalimantan (Train_Val Set)

