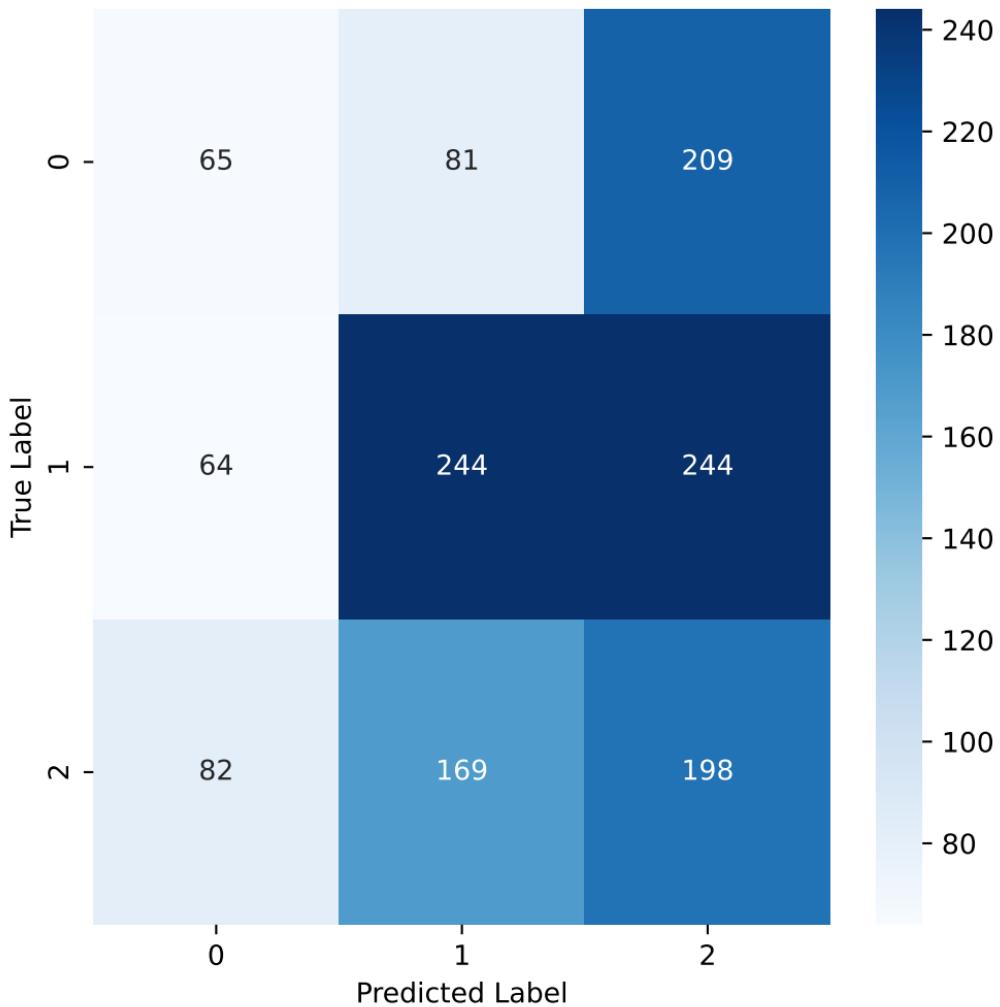


Confusion Matrix - Sumatra

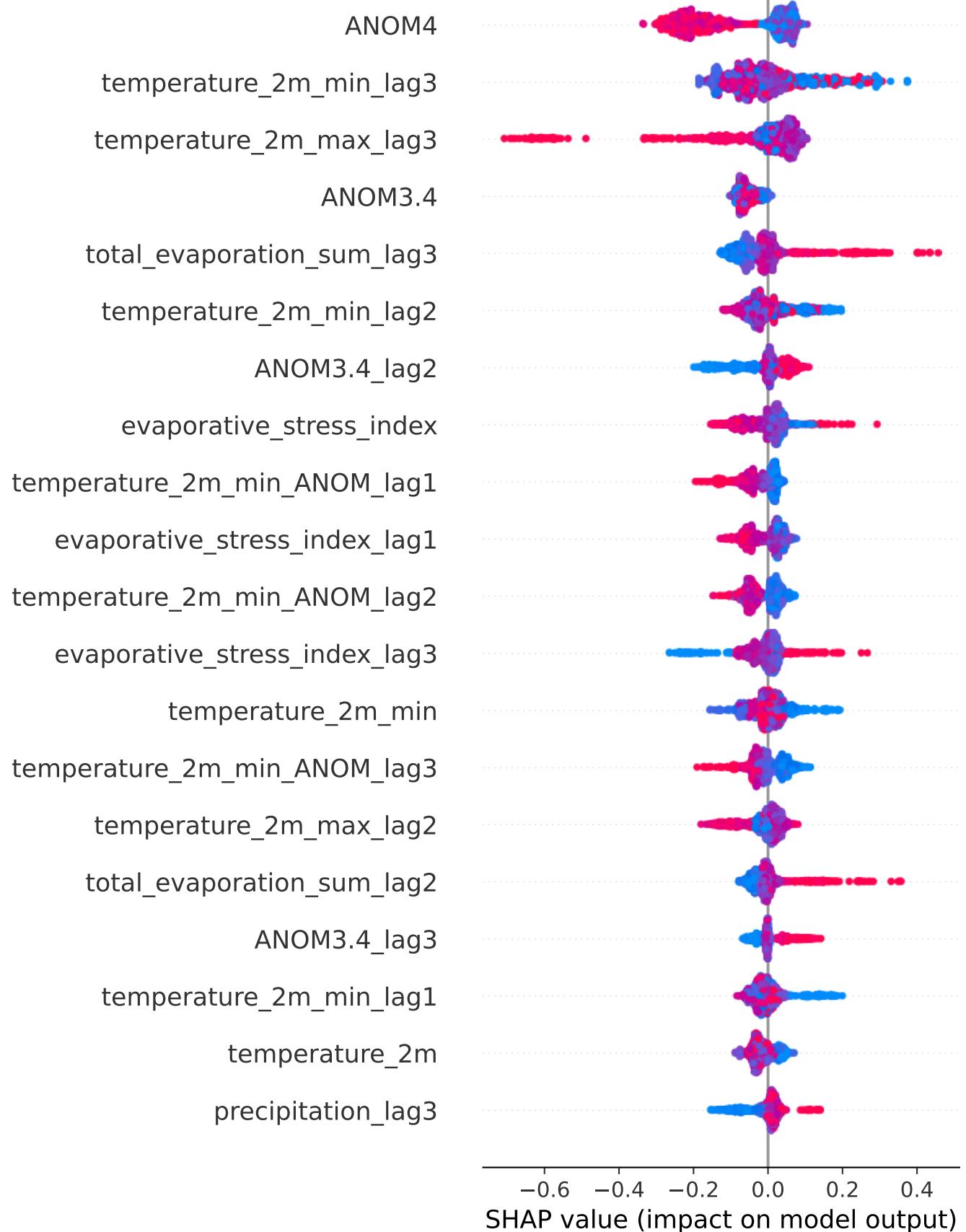


SHAP Beeswarm Plot for Class 0 - Sumatra

High

Feature value

Low

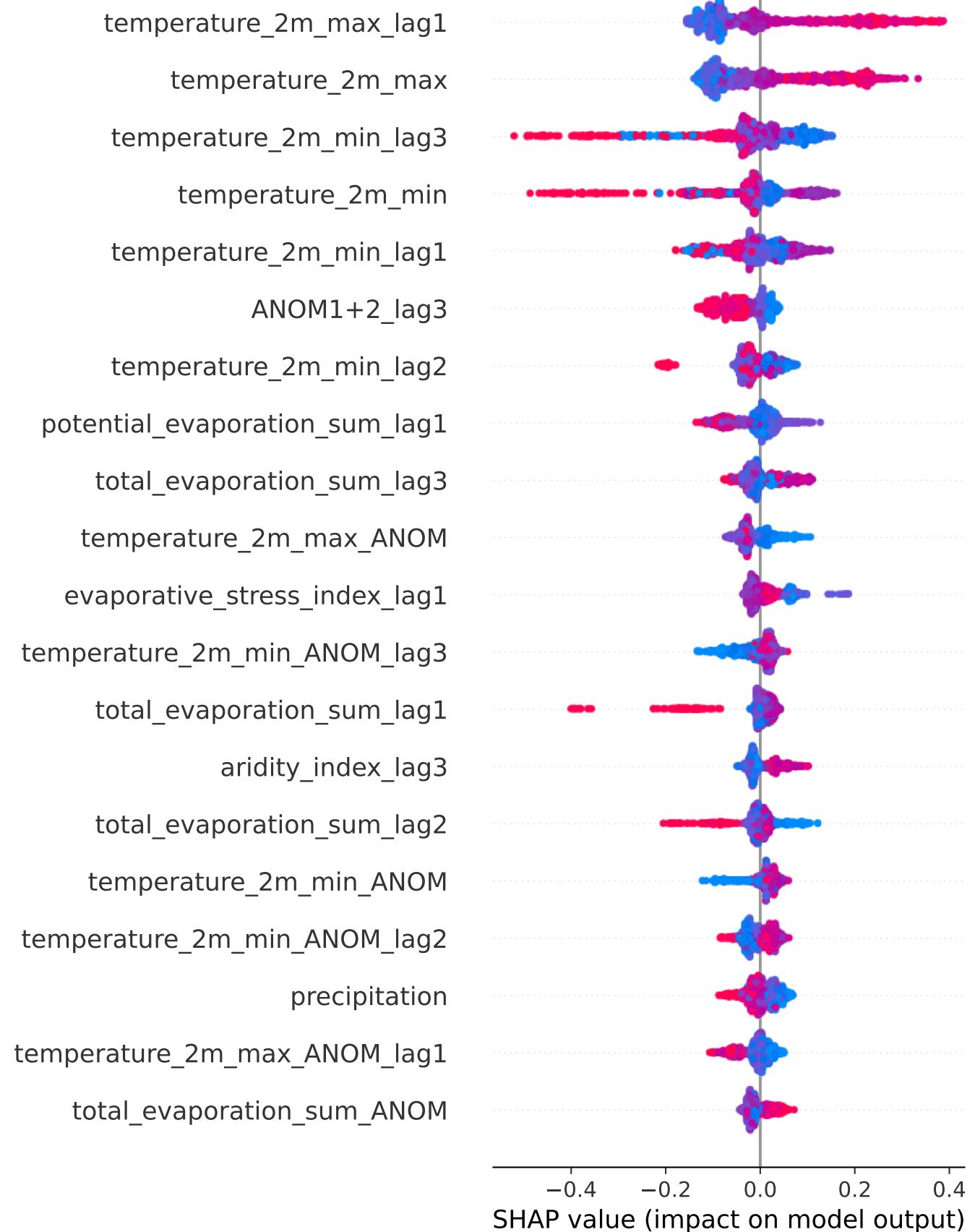


SHAP Beeswarm Plot for Class 1 - Sumatra

High

Feature value

Low



SHAP Beeswarm Plot for Class 2 - Sumatra

High

ANOM4

temperature_2m_min_lag3

temperature_2m_min_lag2

precipitation_lag3

evaporative_stress_index

temperature_2m_max_lag3

temperature_2m_min

evaporative_stress_index_lag1

temperature_2m_min_lag1

temperature_2m_max_ANOM

evaporative_stress_index_lag2

temperature_2m_max_lag2

ANOM1+2_lag3

temperature_2m_min_ANOM

temperature_2m_lag3

temperature_2m_ANOM_lag3

ANOM4_lag1

DMI_lag1

DMI_lag3

temperature_2m_ANOM_lag1

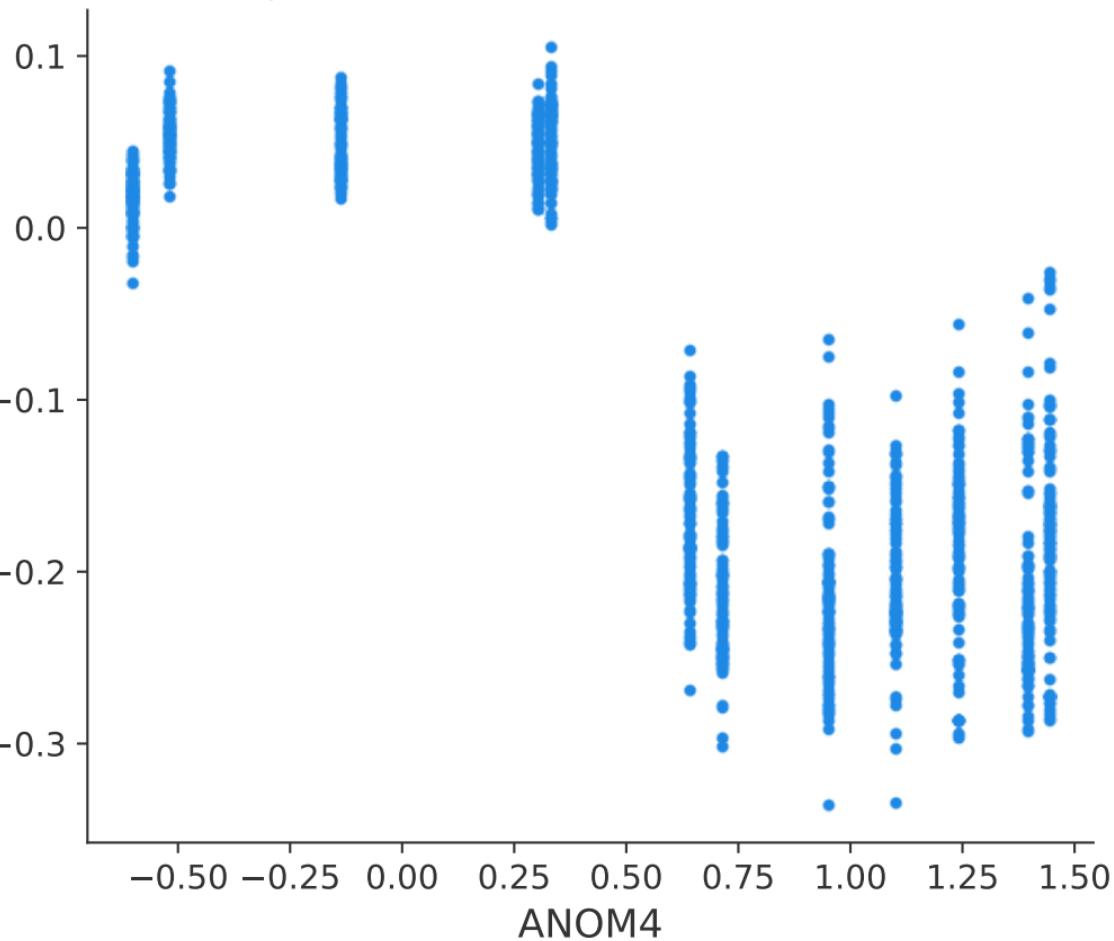
Feature value

Low

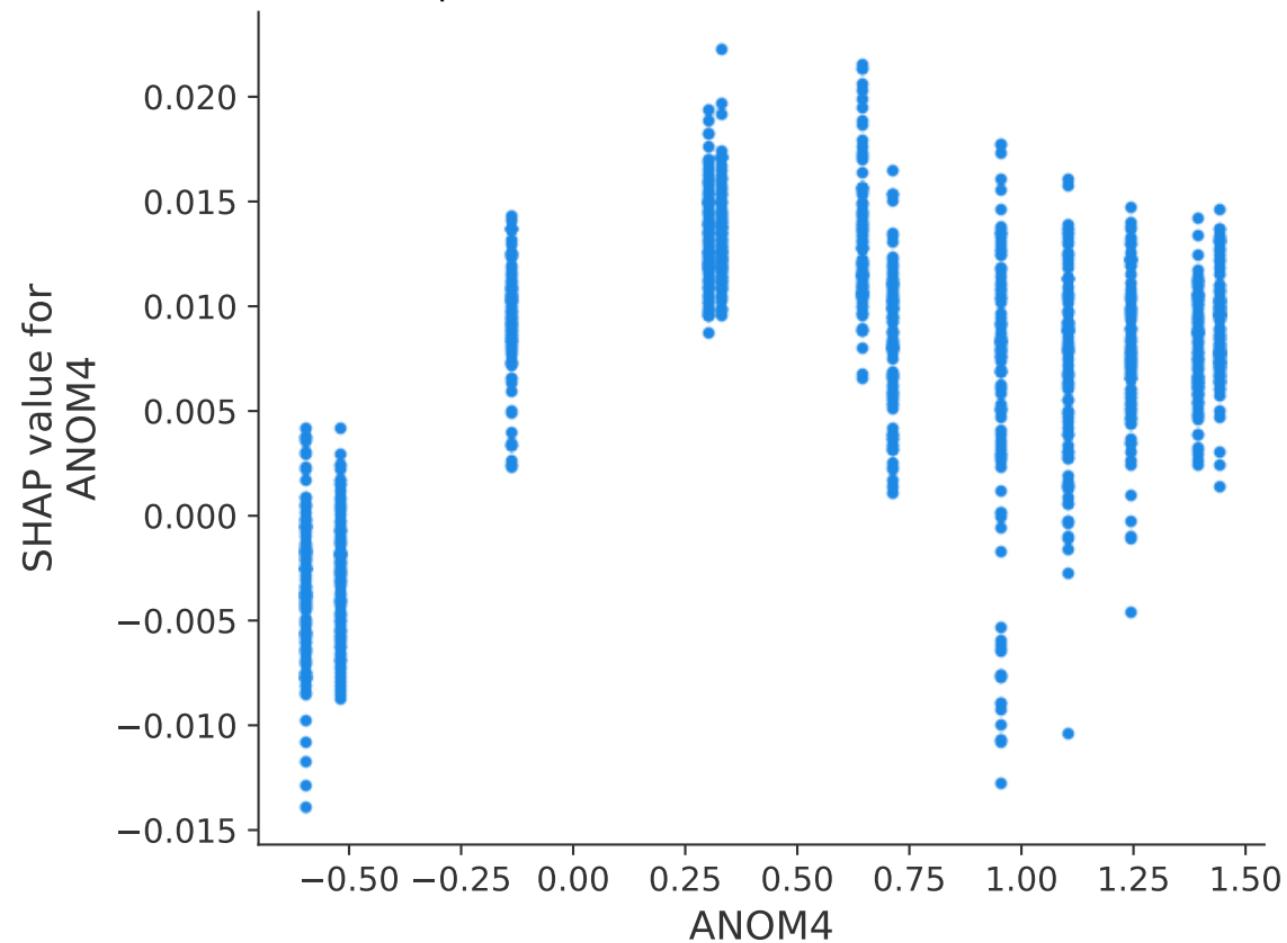
SHAP value (impact on model output)

SHAP Dependence Plot for ANOM4, Class 0 - Sumatra

SHAP value for
ANOM4

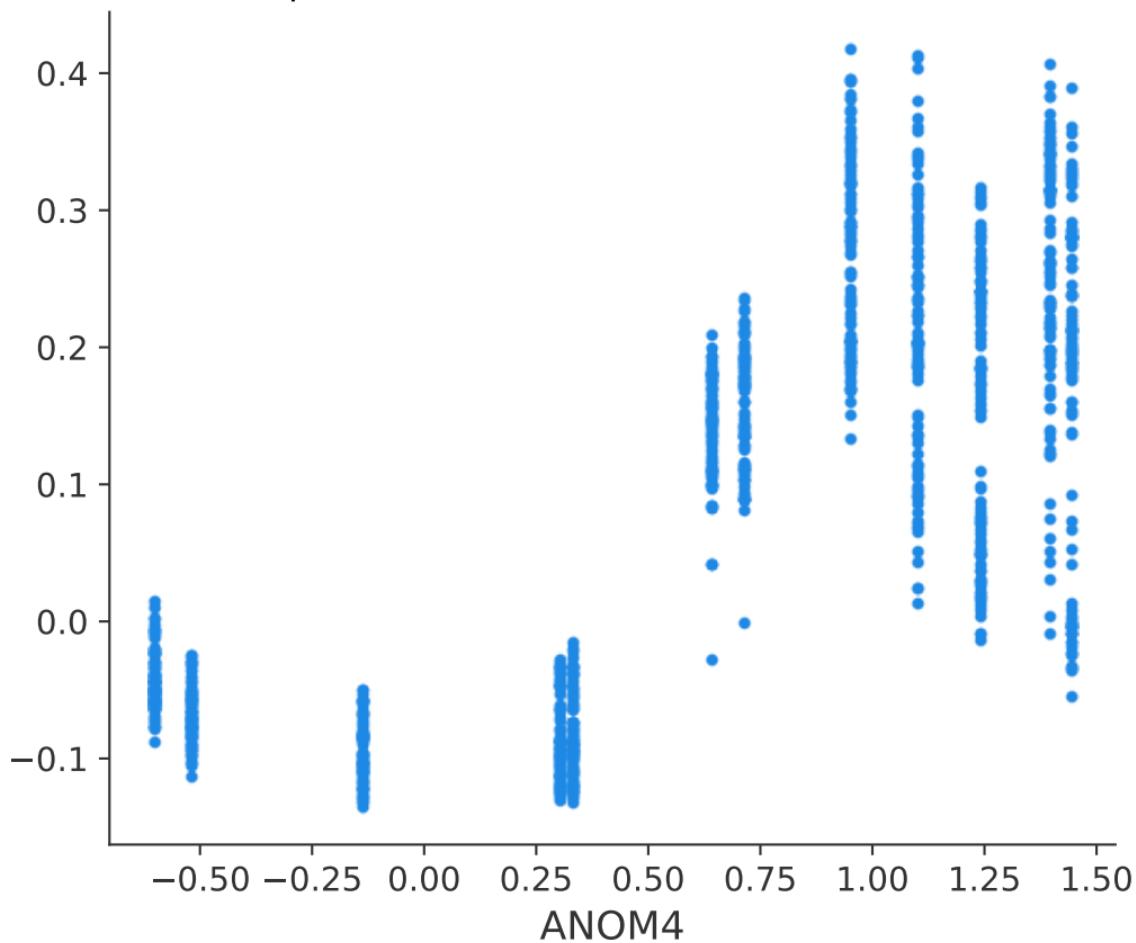


SHAP Dependence Plot for ANOM4, Class 1 - Sumatra

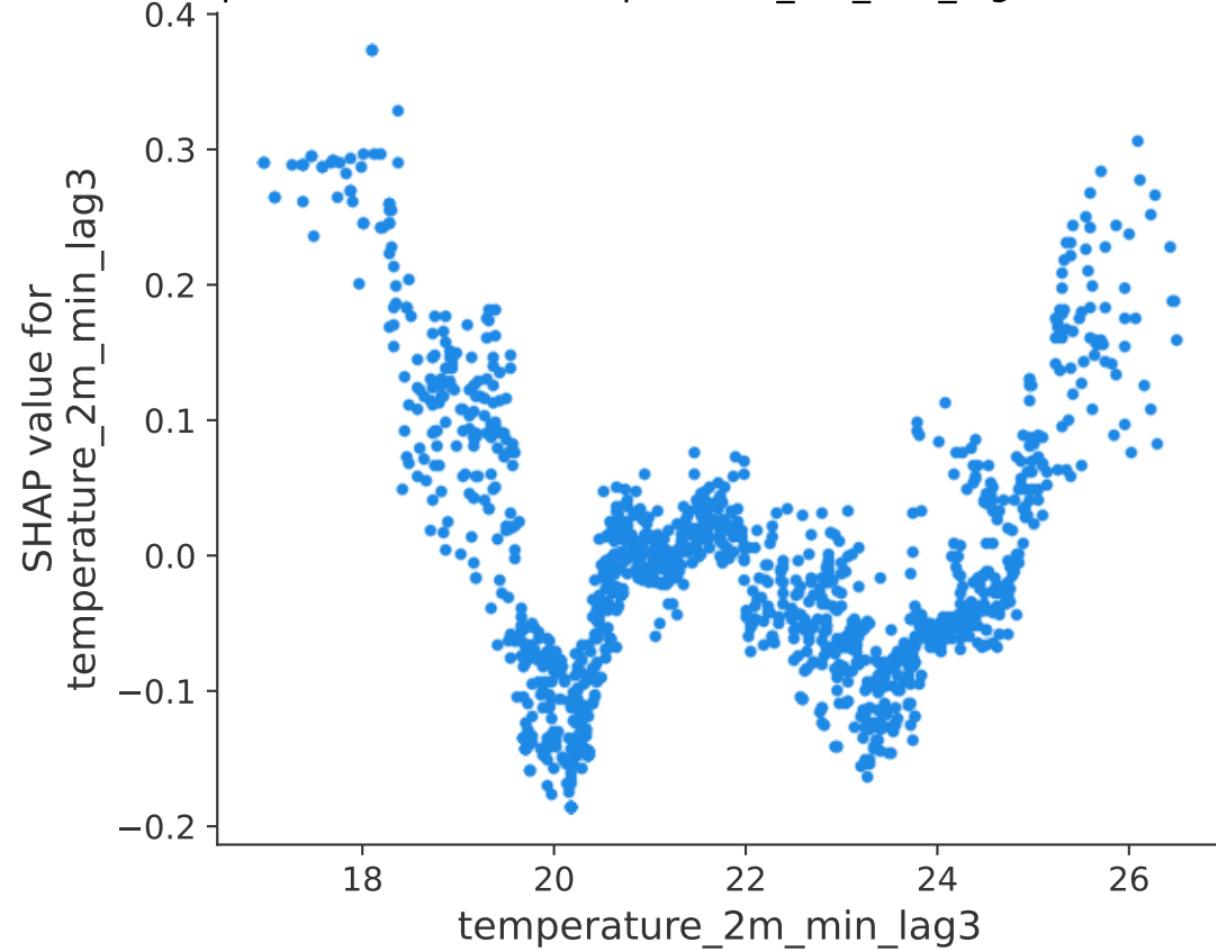


SHAP Dependence Plot for ANOM4, Class 2 - Sumatra

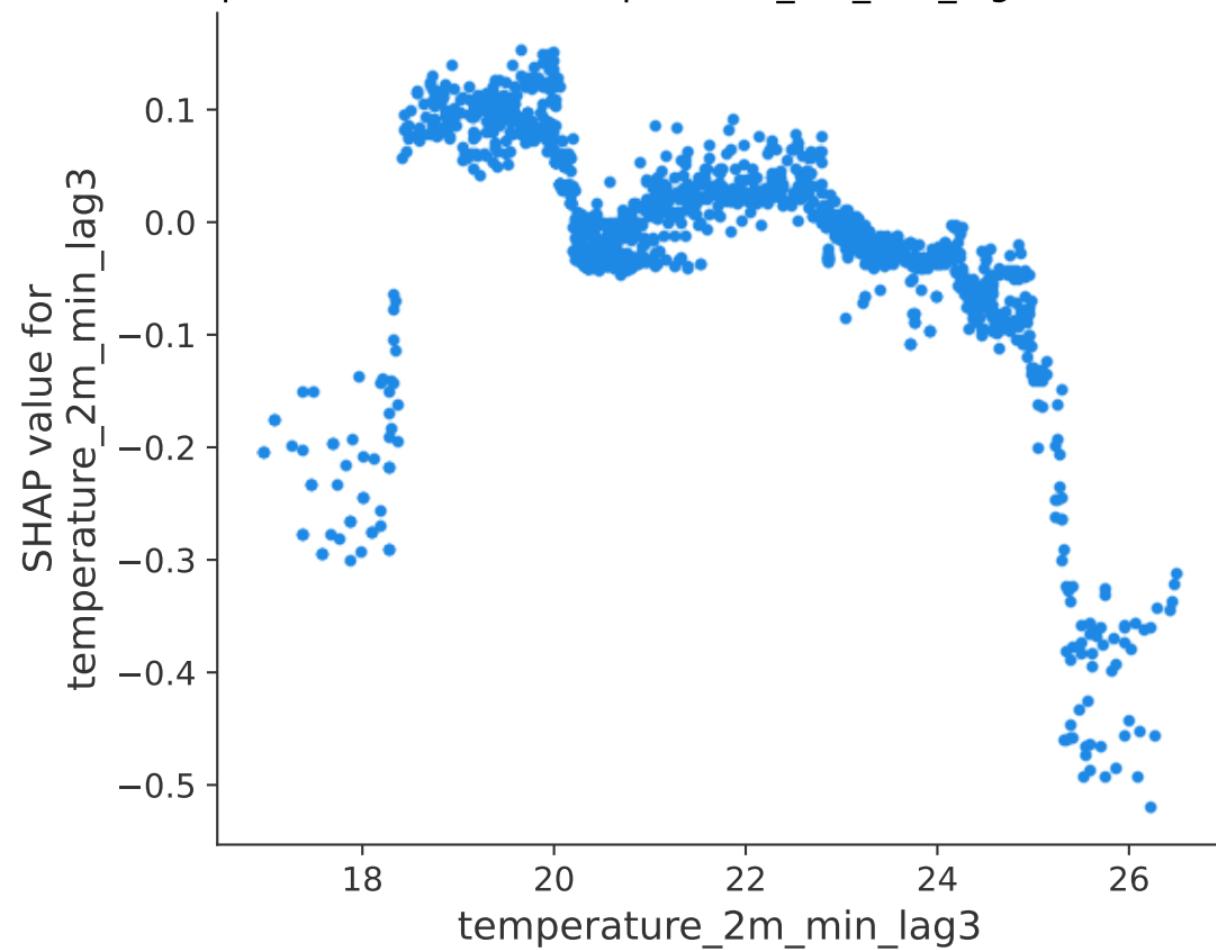
SHAP value for
ANOM4



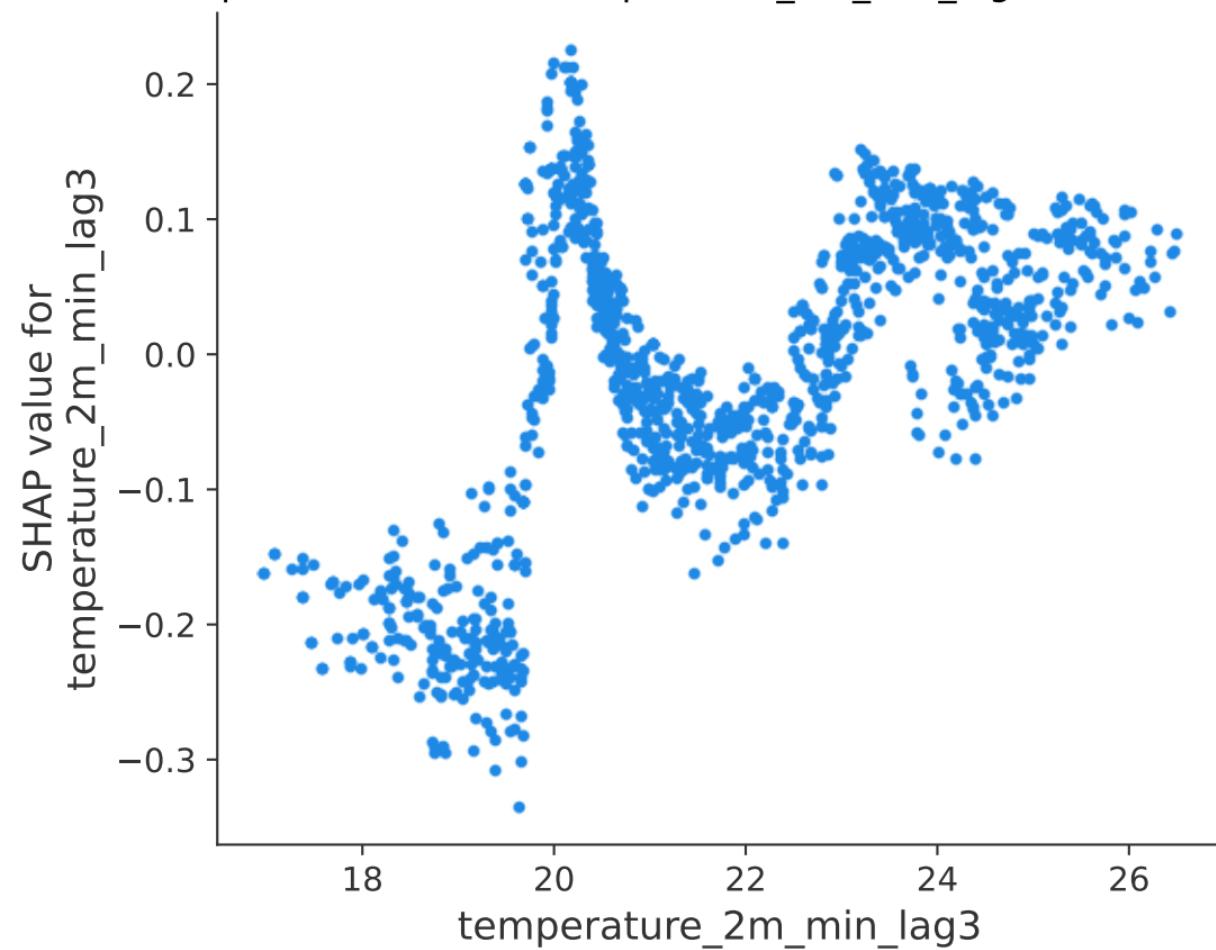
SHAP Dependence Plot for temperature_2m_min_lag3, Class 0 - Sumatra



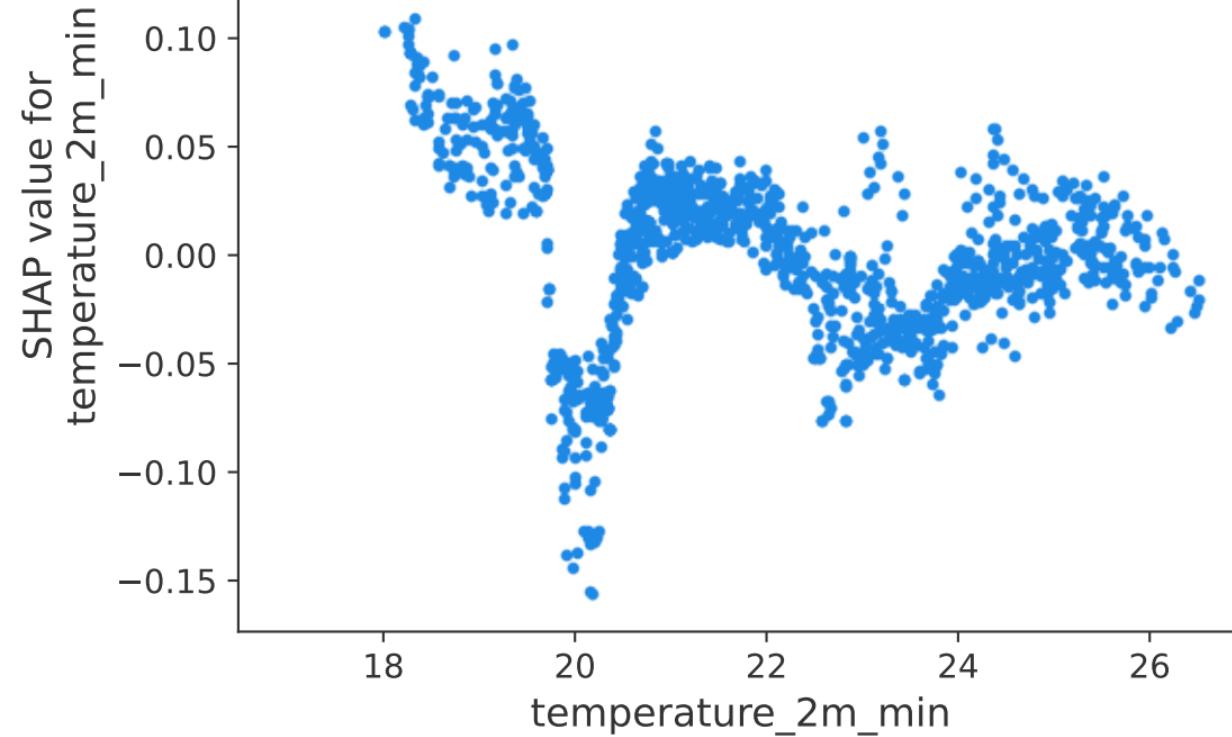
SHAP Dependence Plot for temperature_2m_min_lag3, Class 1 - Sumatra



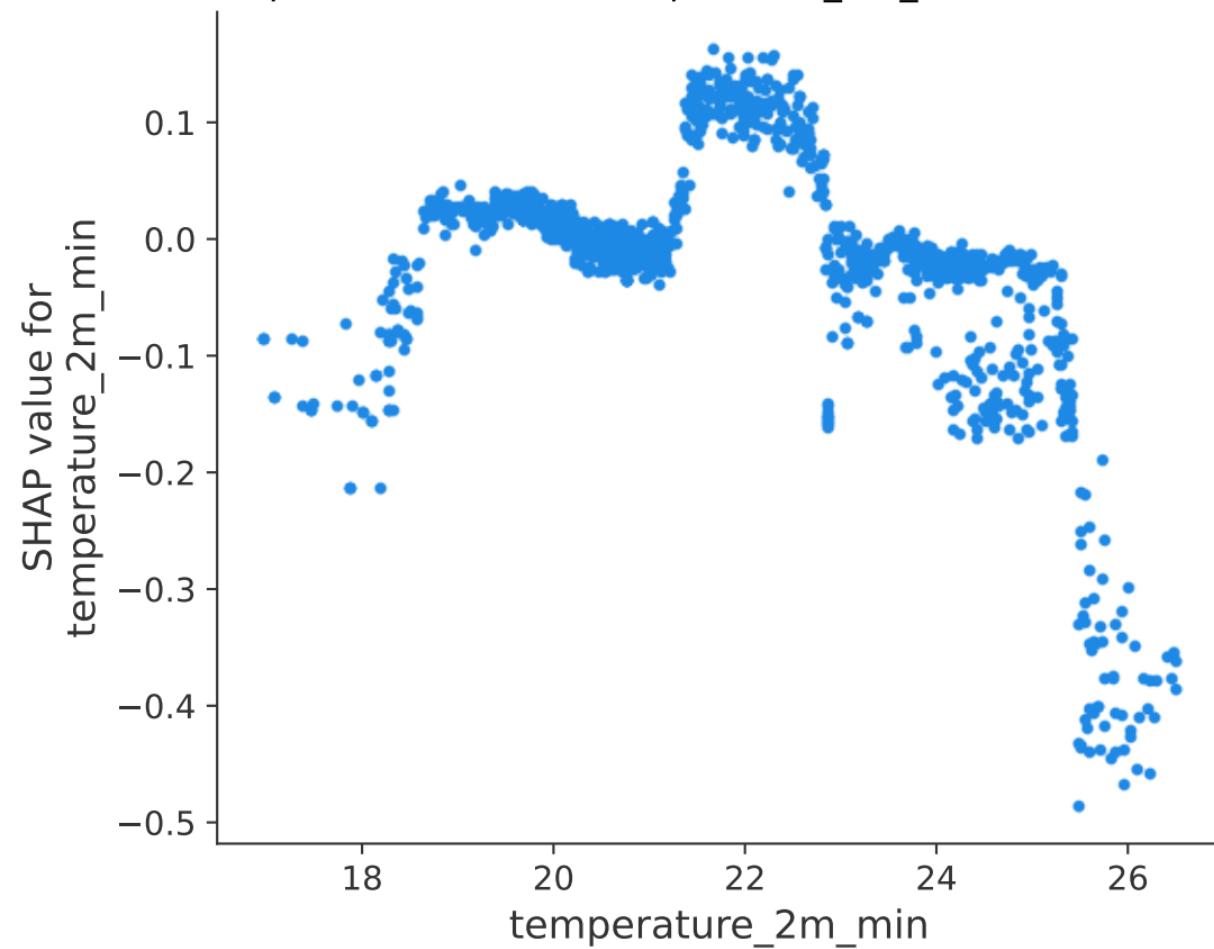
SHAP Dependence Plot for temperature_2m_min_lag3, Class 2 - Sumatra



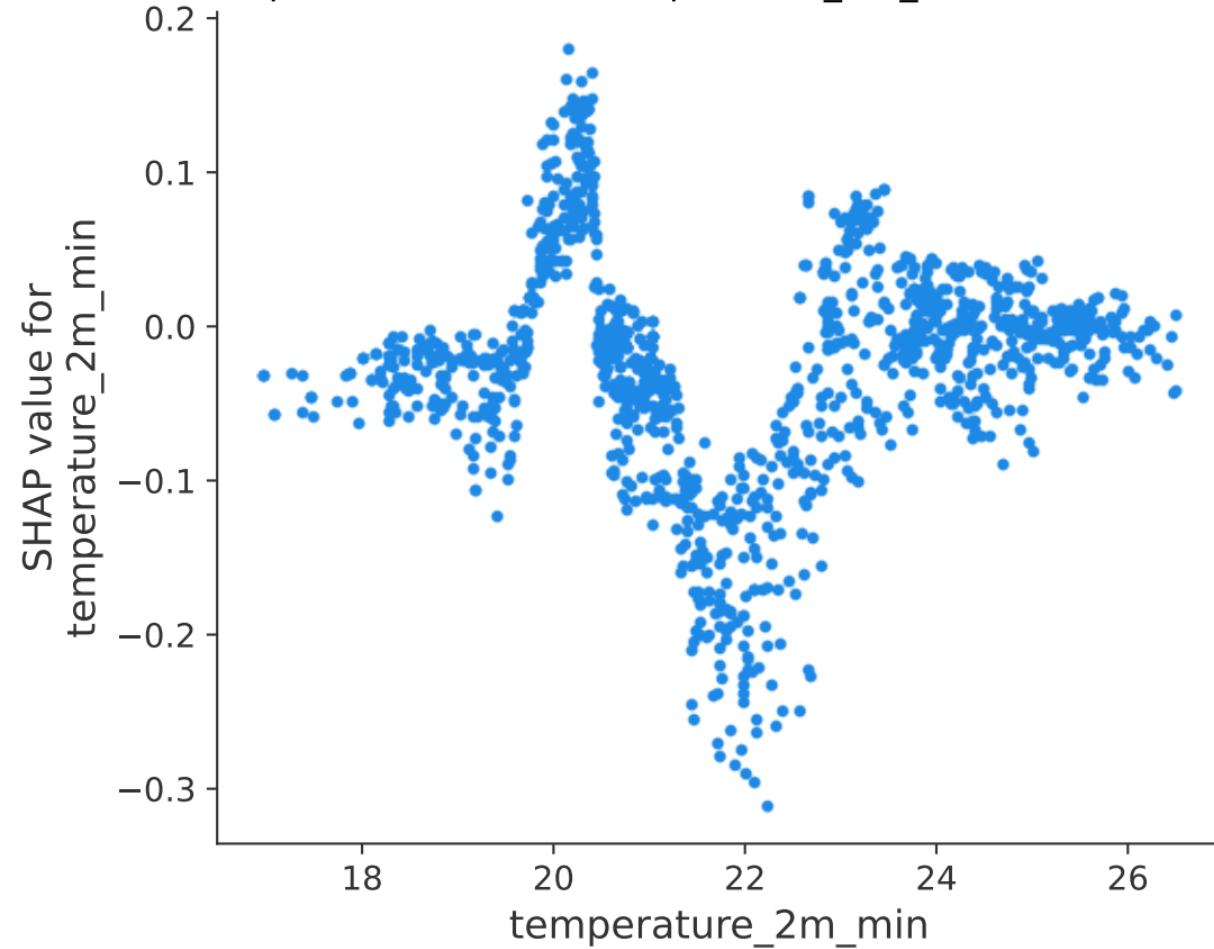
SHAP Dependence Plot for temperature_2m_min, Class 0 - Sumatra



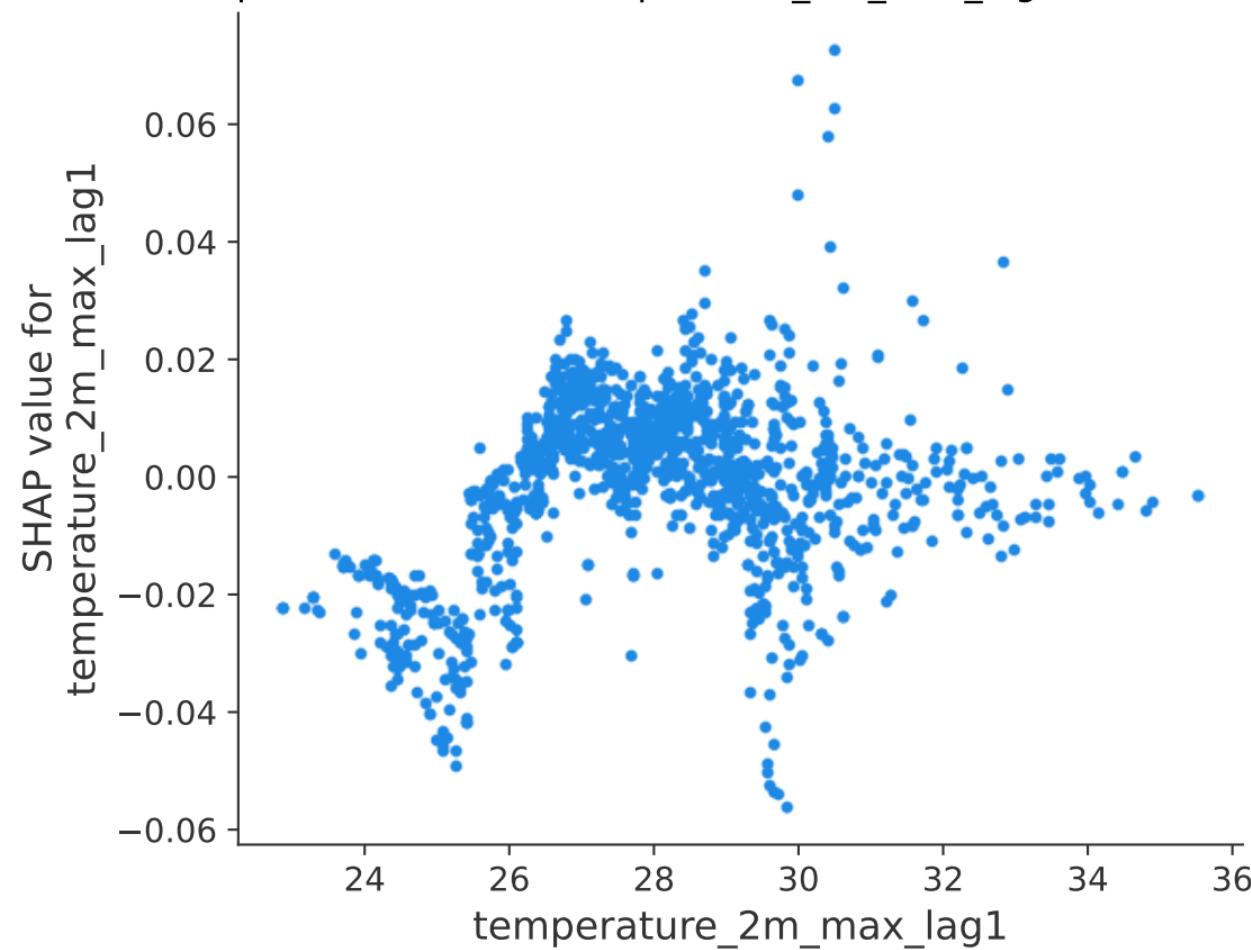
SHAP Dependence Plot for temperature_2m_min, Class 1 - Sumatra



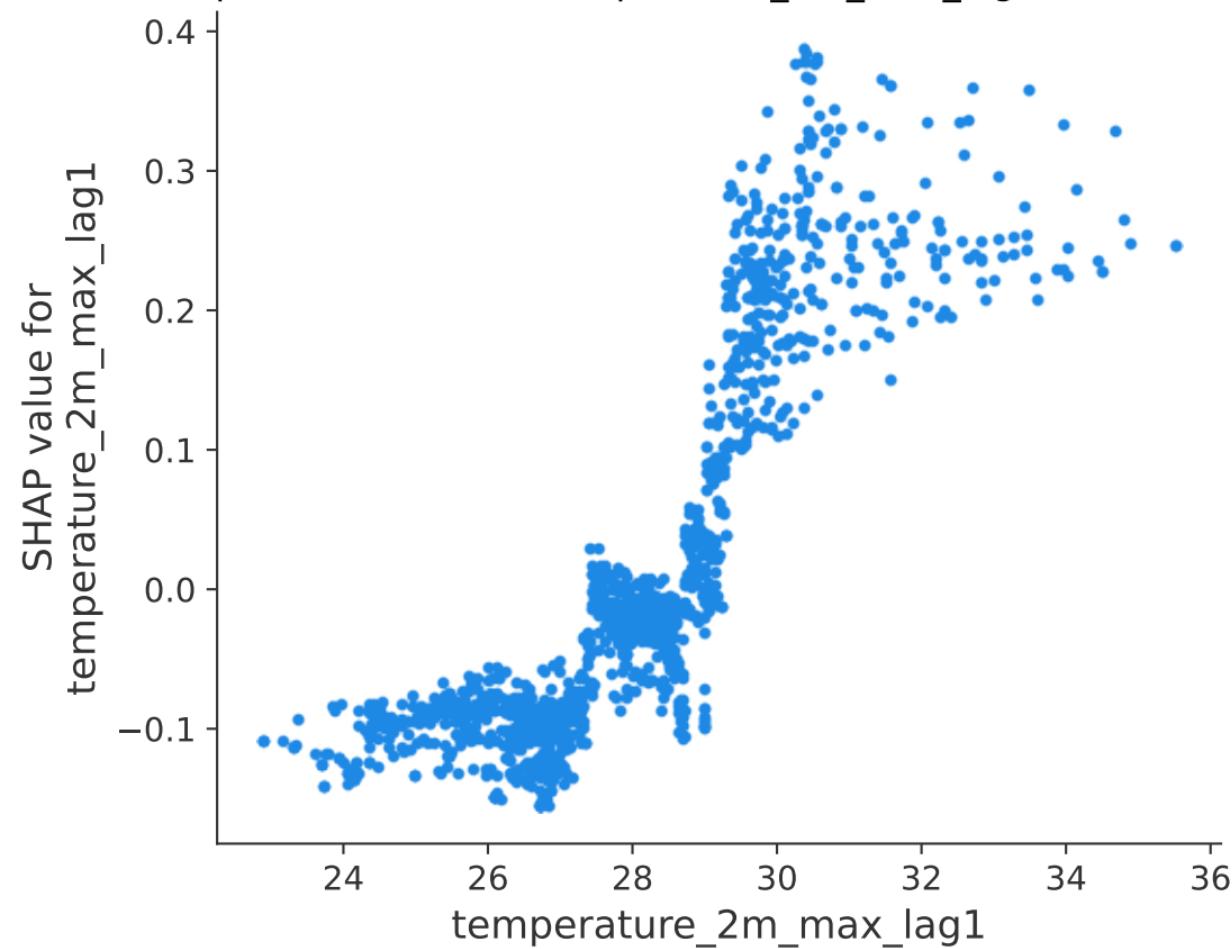
SHAP Dependence Plot for temperature_2m_min, Class 2 - Sumatra



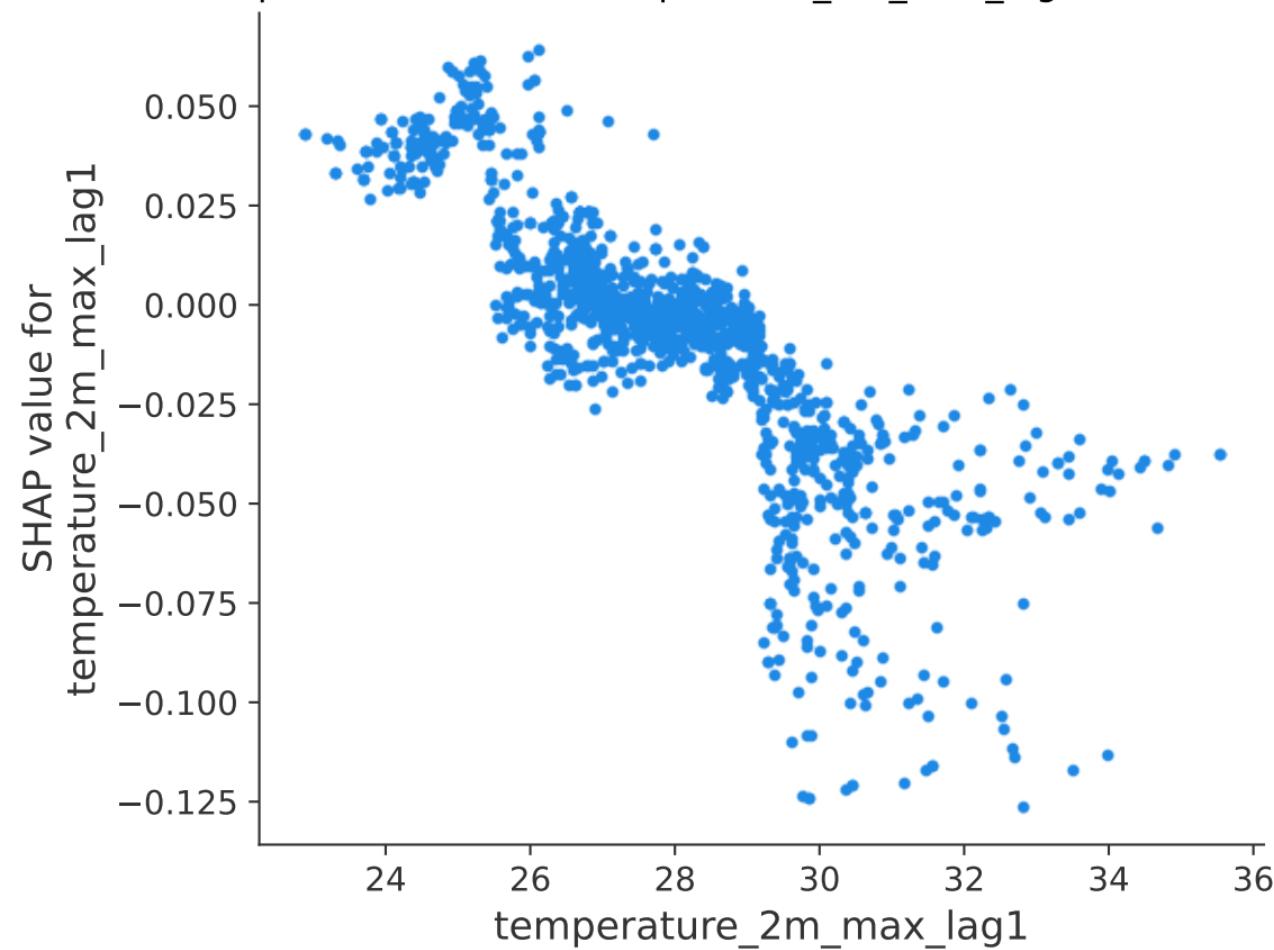
SHAP Dependence Plot for temperature_2m_max_lag1, Class 0 - Sumatra



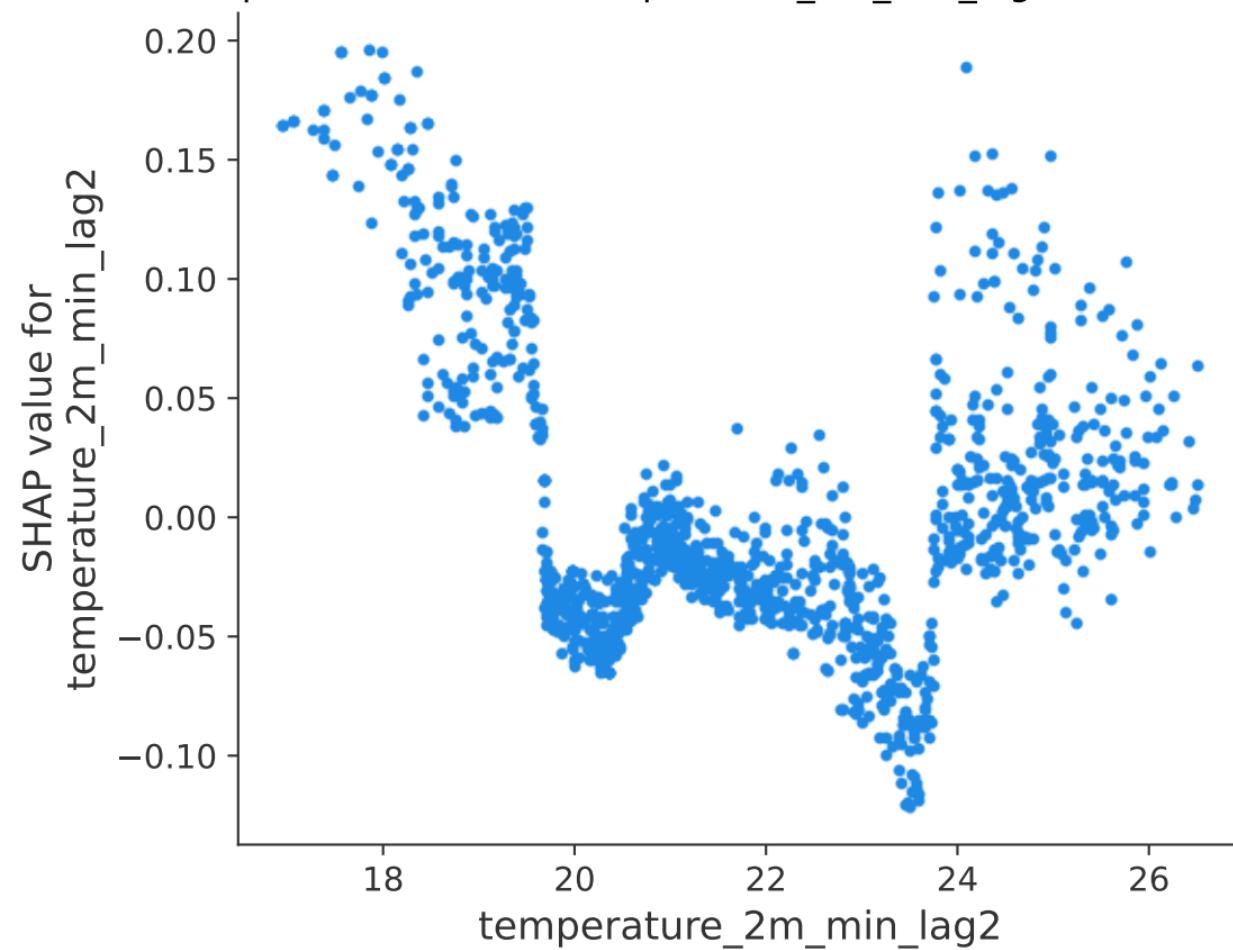
SHAP Dependence Plot for temperature_2m_max_lag1, Class 1 - Sumatra



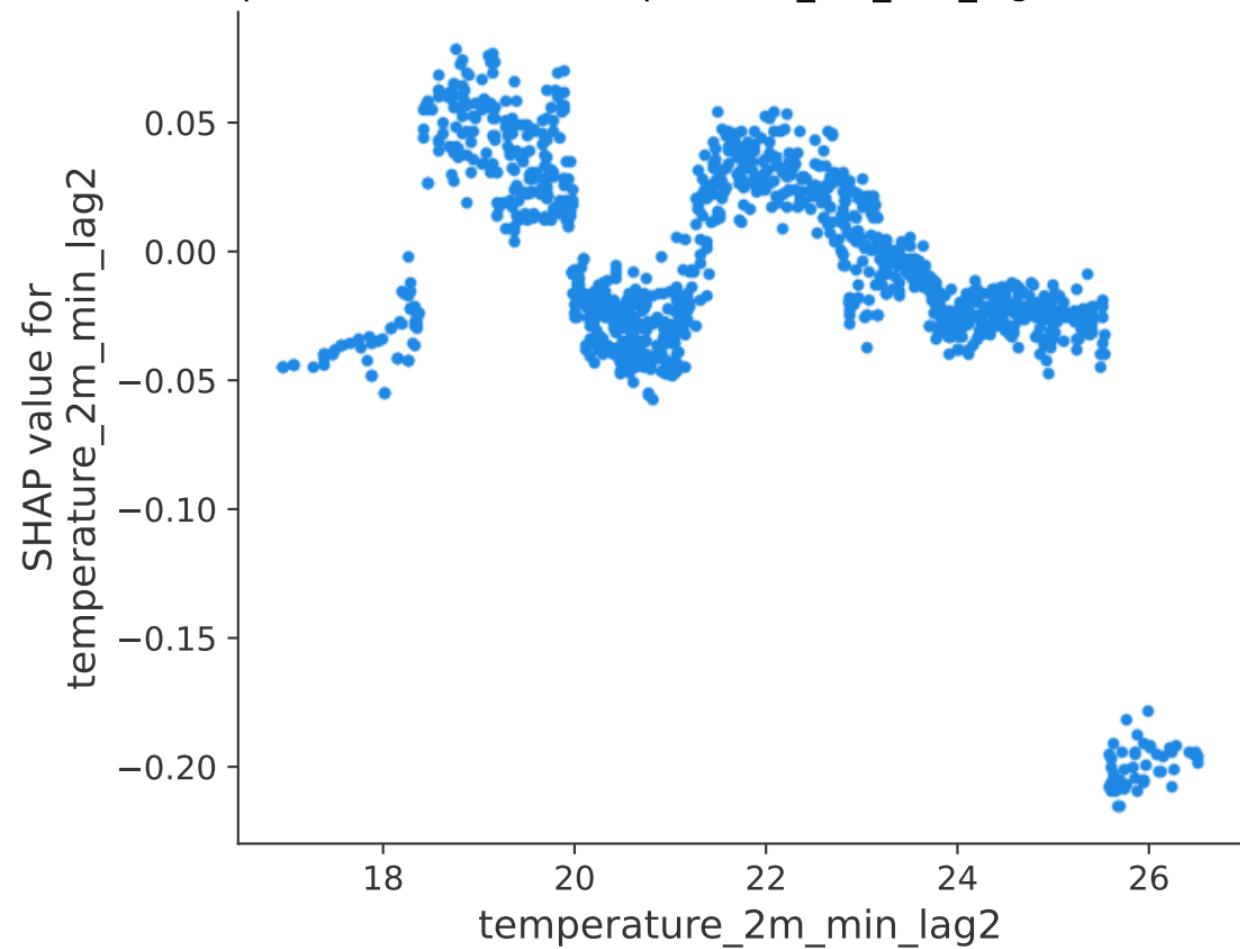
SHAP Dependence Plot for temperature_2m_max_lag1, Class 2 - Sumatra



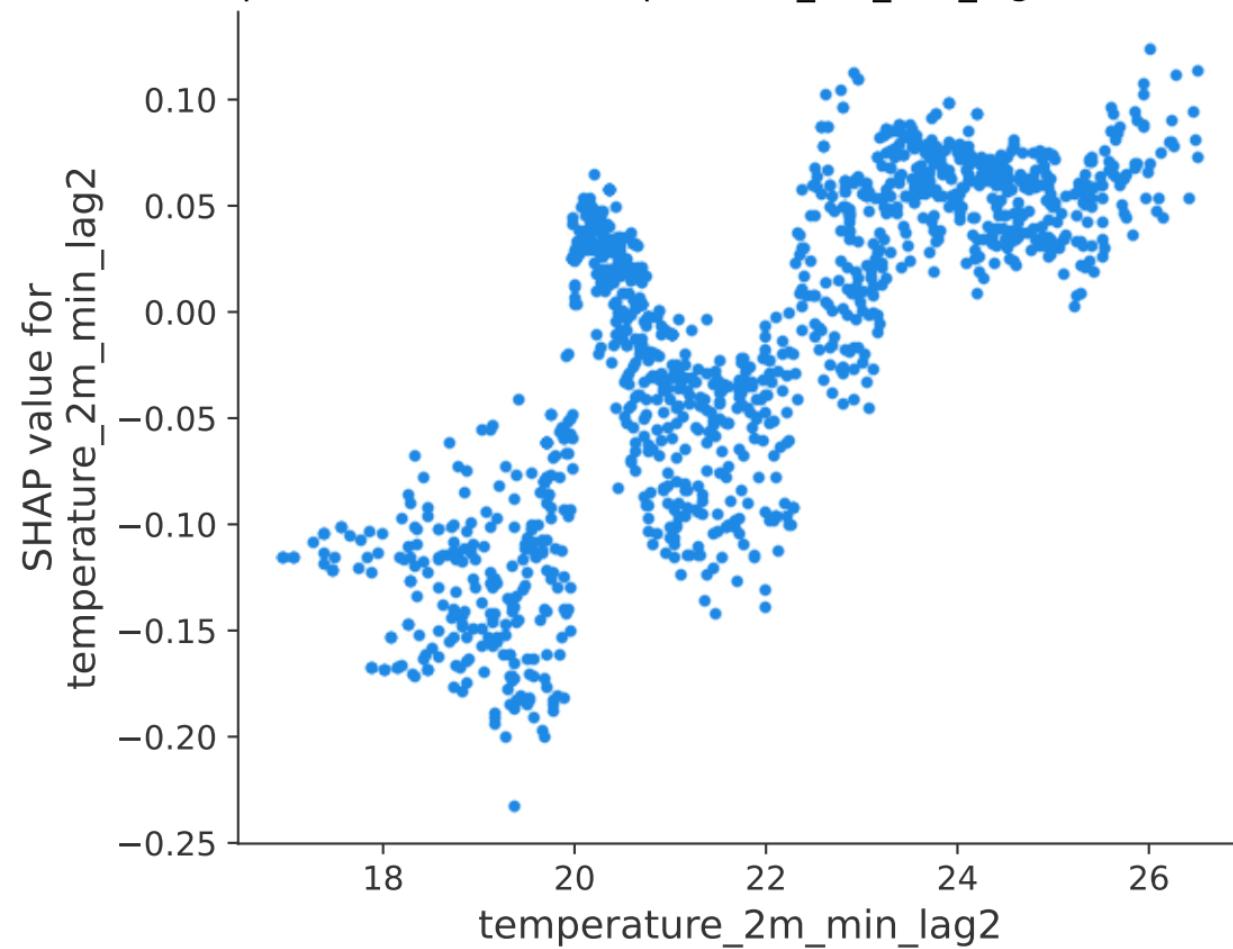
SHAP Dependence Plot for temperature_2m_min_lag2, Class 0 - Sumatra



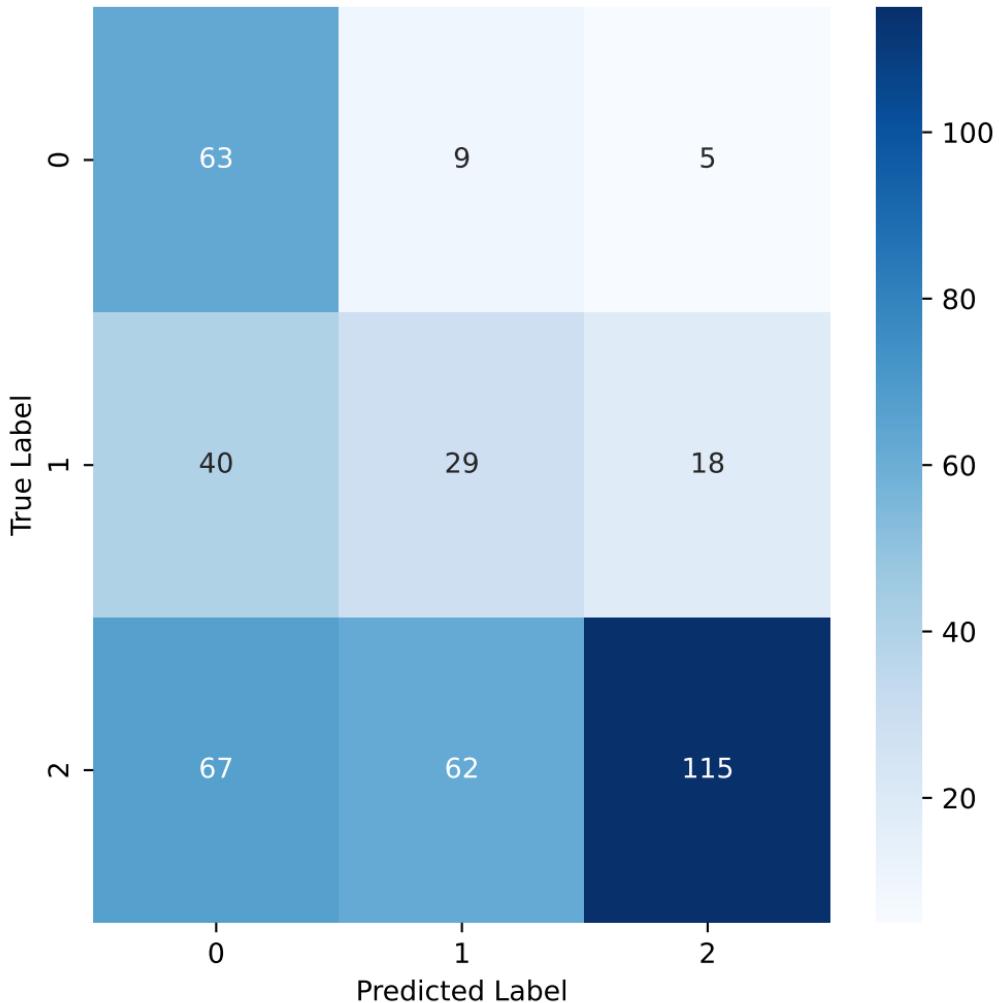
SHAP Dependence Plot for temperature_2m_min_lag2, Class 1 - Sumatra



SHAP Dependence Plot for temperature_2m_min_lag2, Class 2 - Sumatra

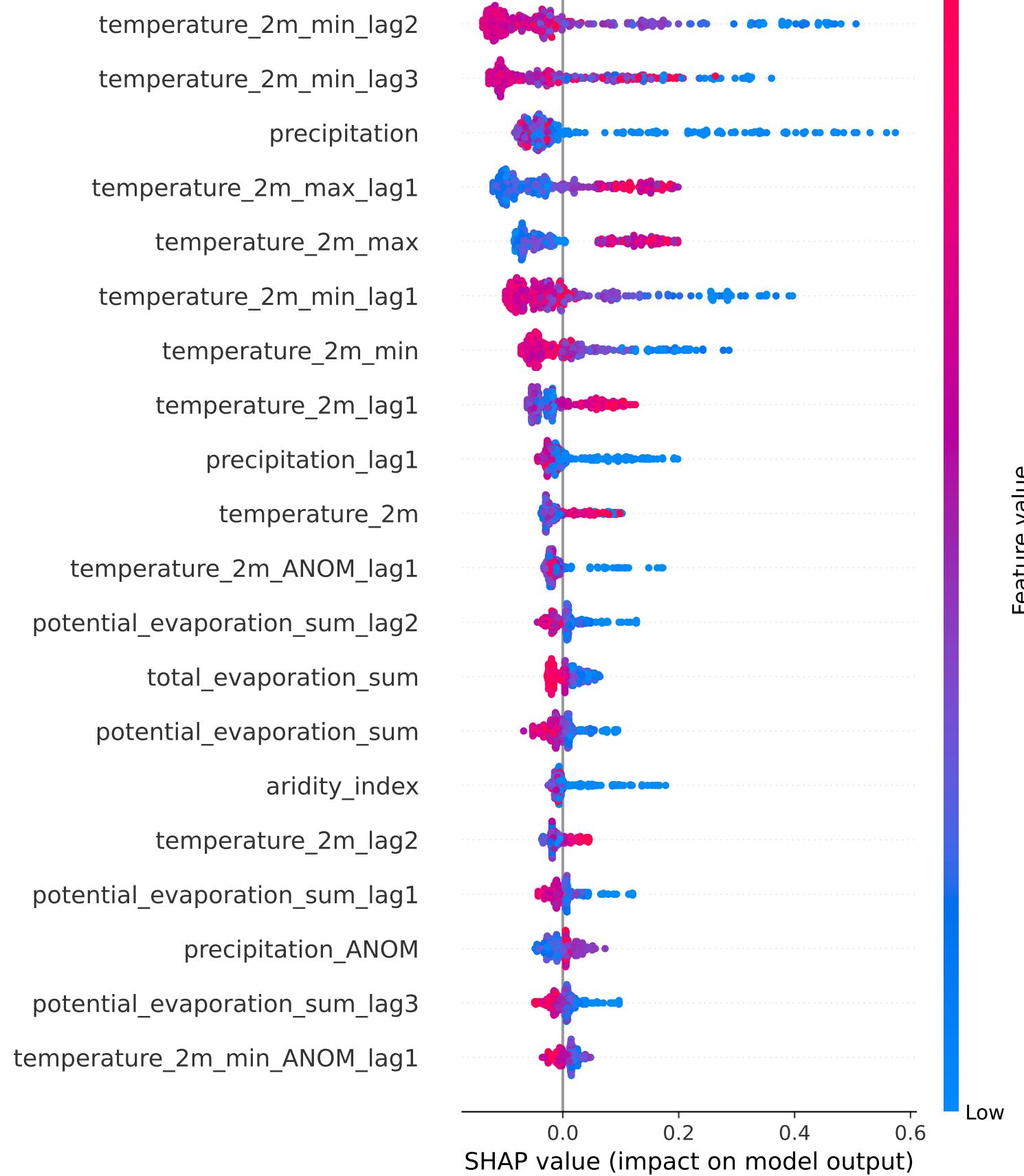


Confusion Matrix - Nusa Tenggara



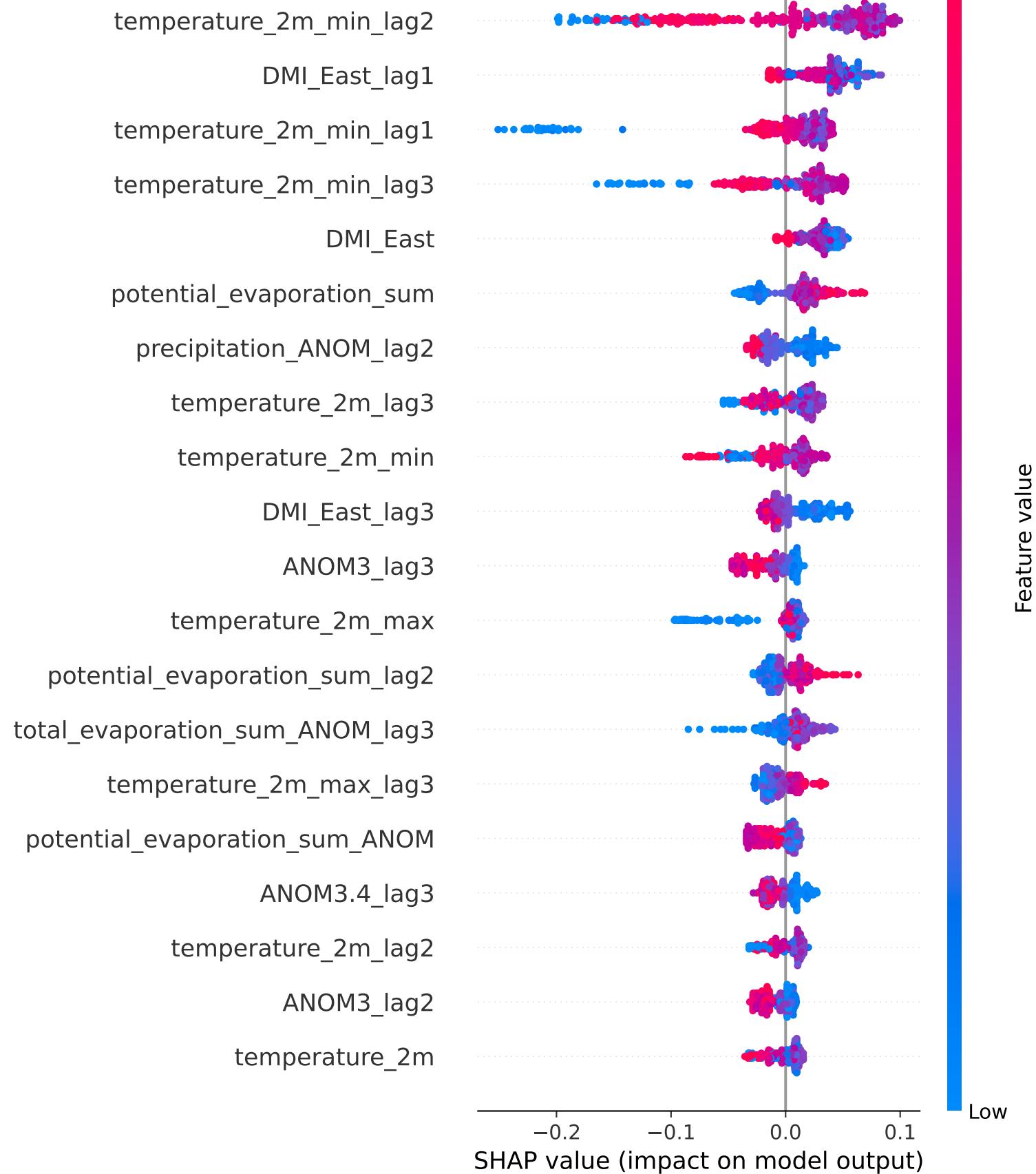
SHAP Beeswarm Plot for Class 0 - Nusa Tenggara

High



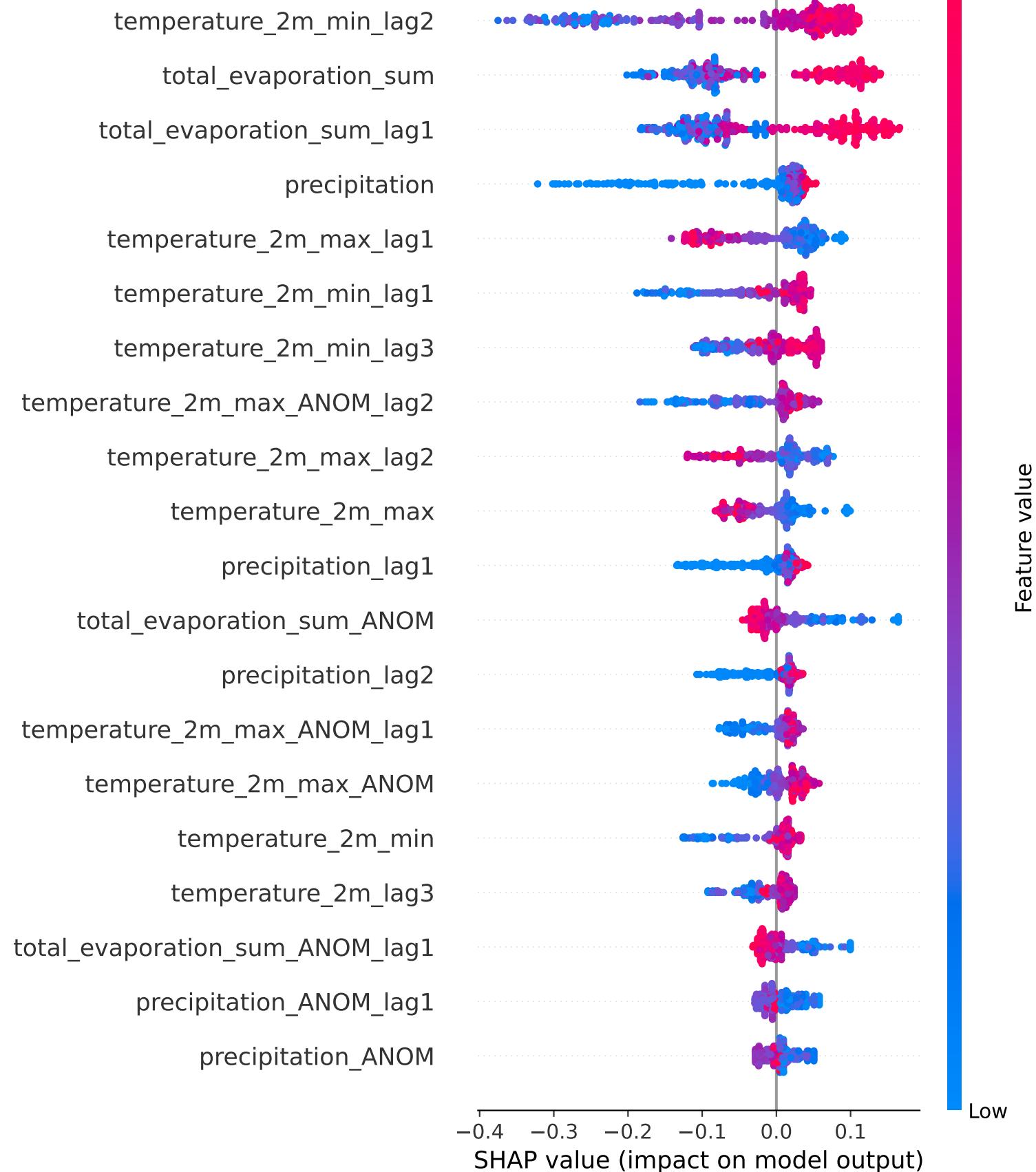
SHAP Beeswarm Plot for Class 1 - Nusa Tenggara

High

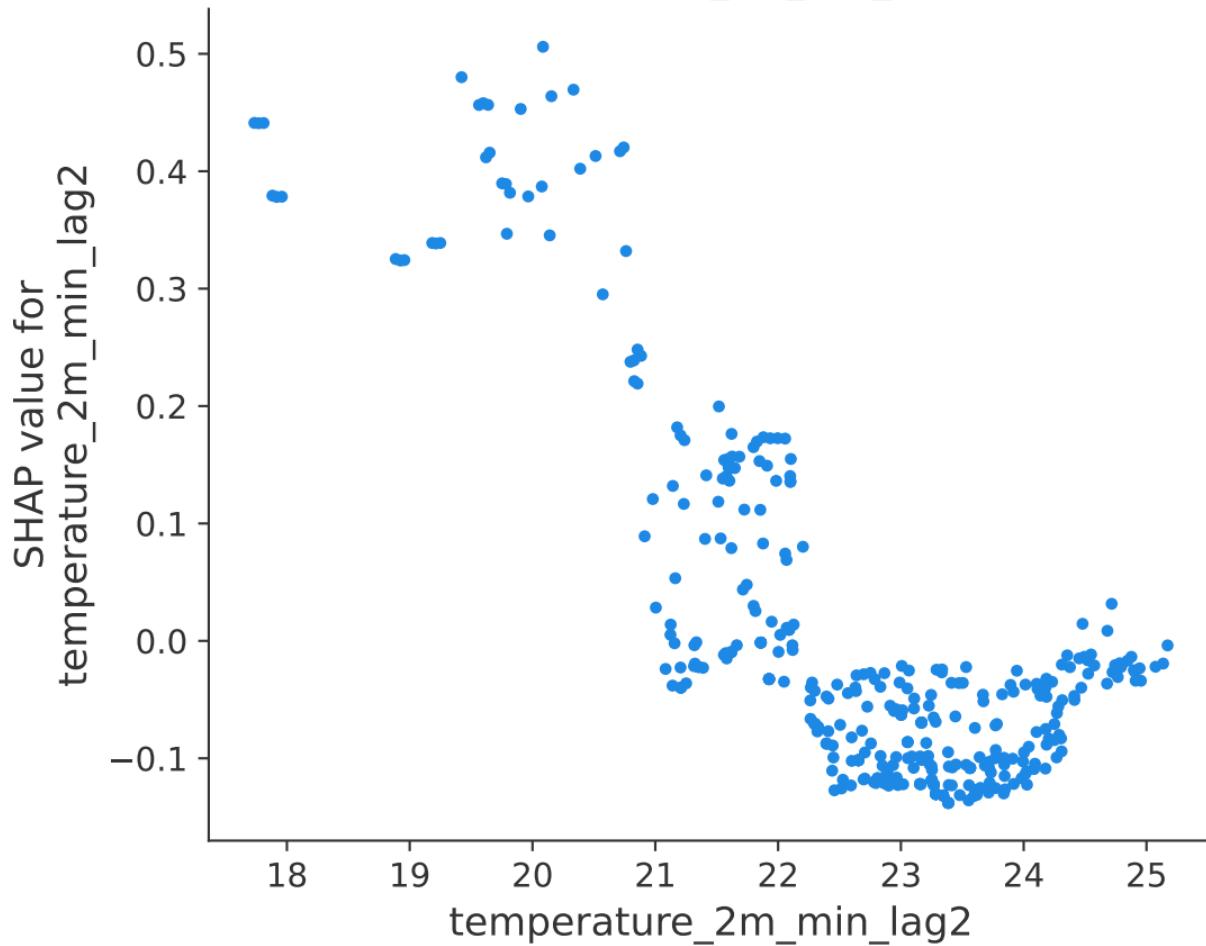


SHAP Beeswarm Plot for Class 2 - Nusa Tenggara

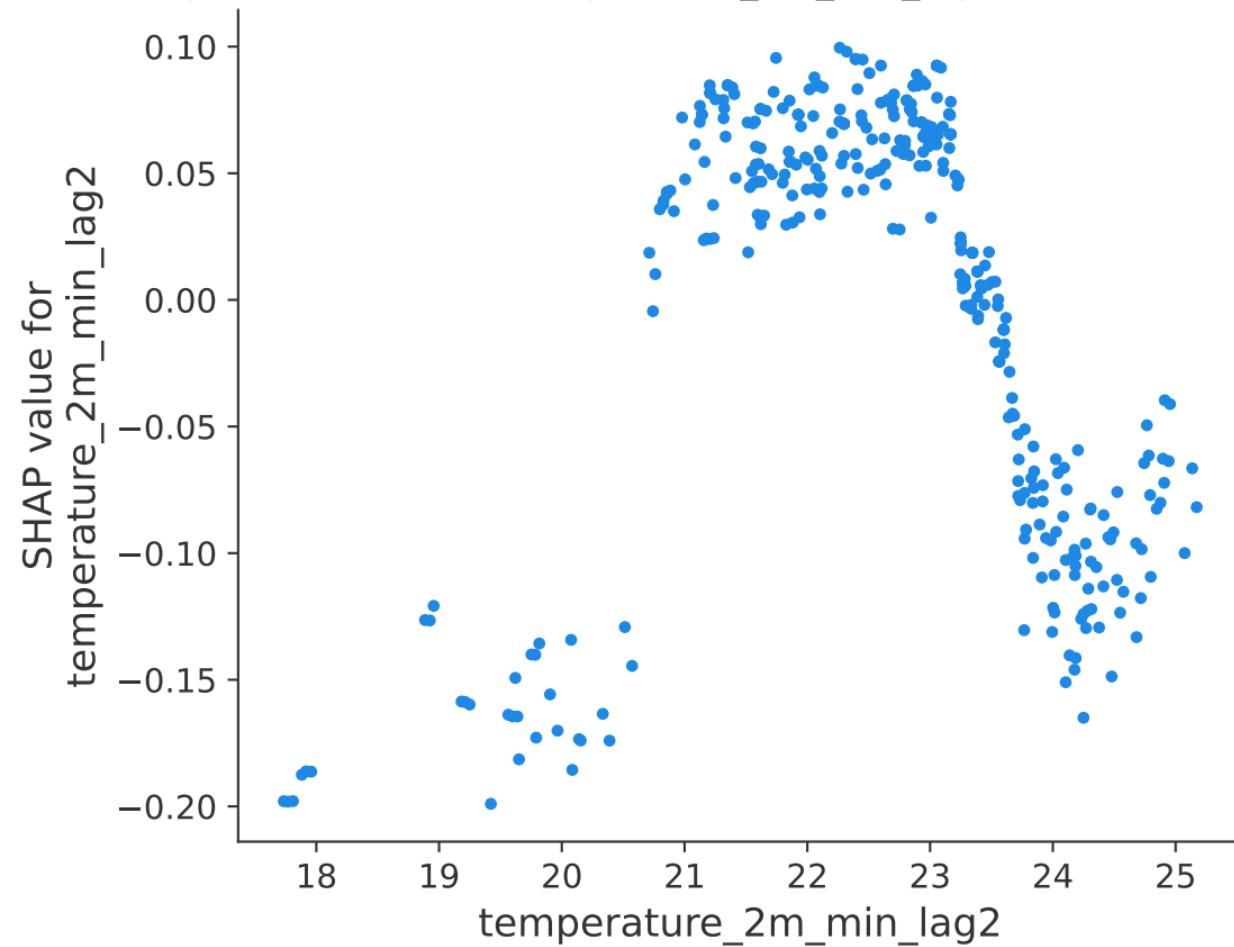
High



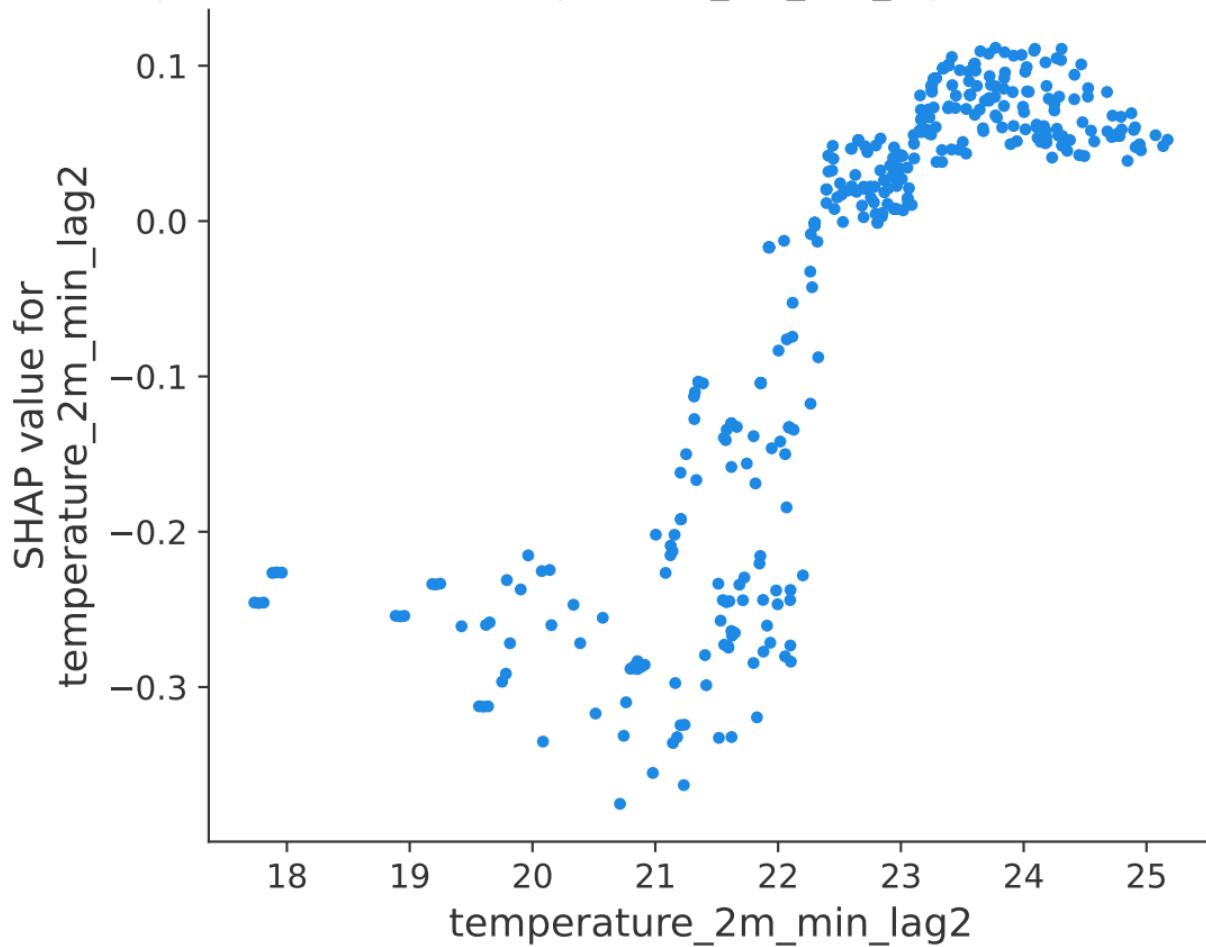
SHAP Dependence Plot for temperature_2m_min_lag2, Class 0 - Nusa Tenggara



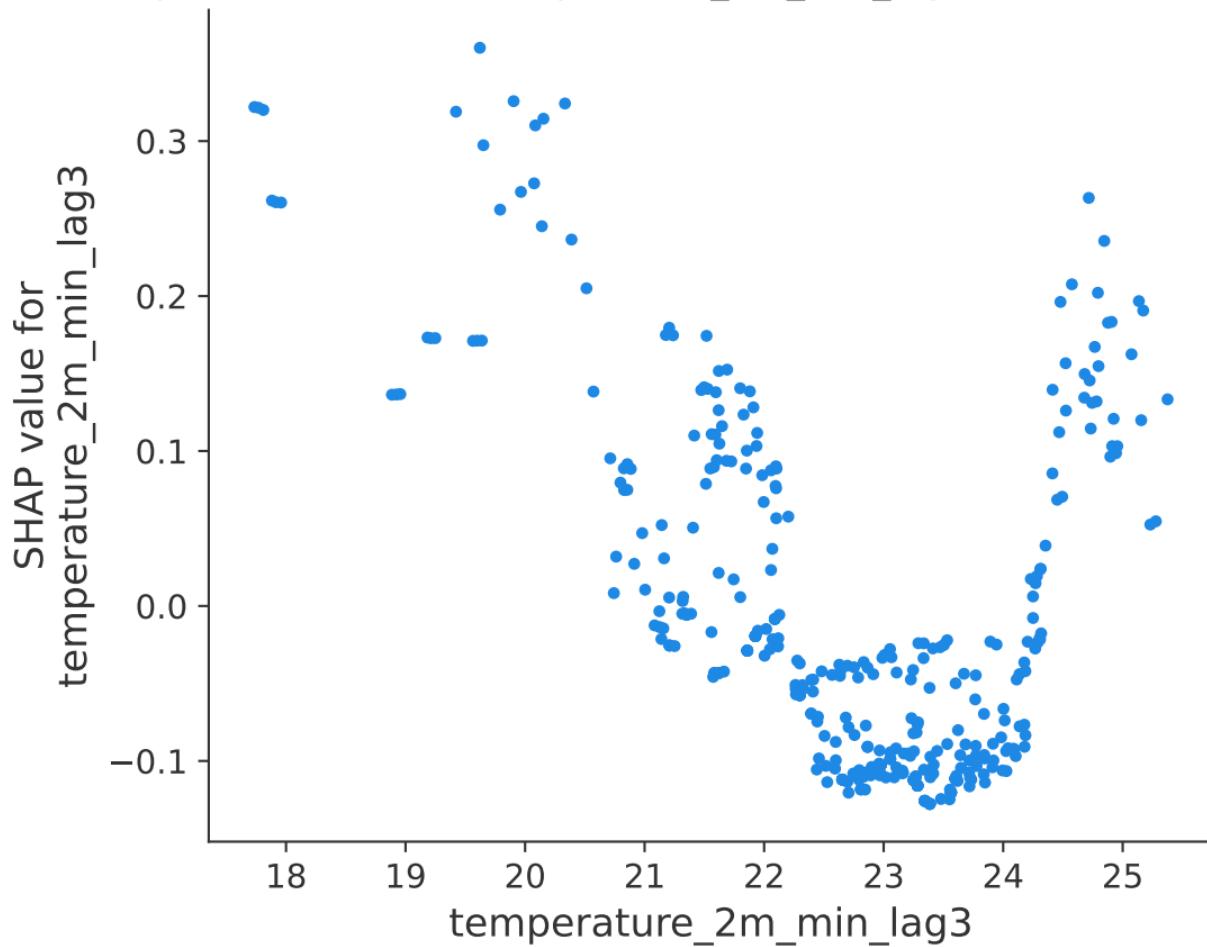
SHAP Dependence Plot for temperature_2m_min_lag2, Class 1 - Nusa Tenggara



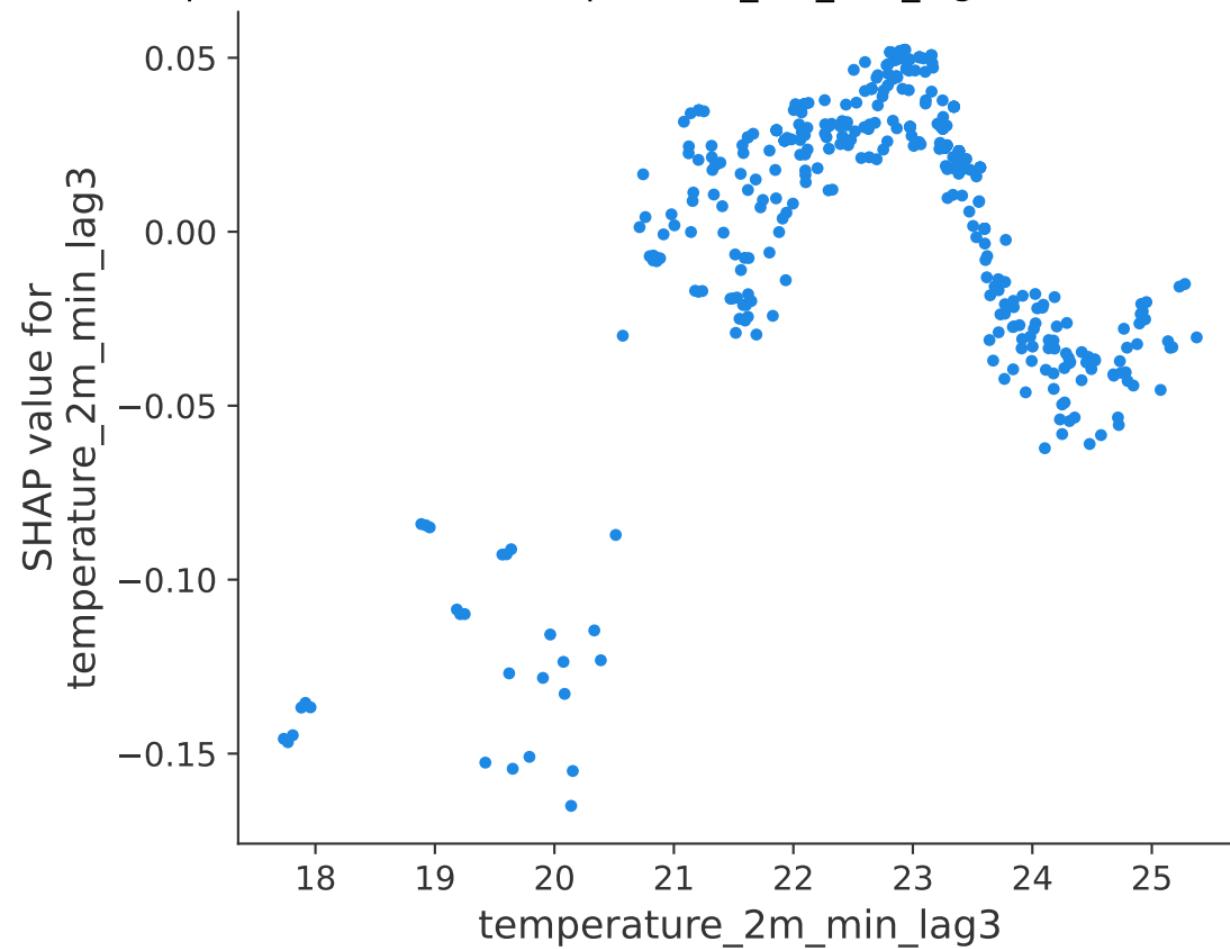
SHAP Dependence Plot for temperature_2m_min_lag2, Class 2 - Nusa Tenggara



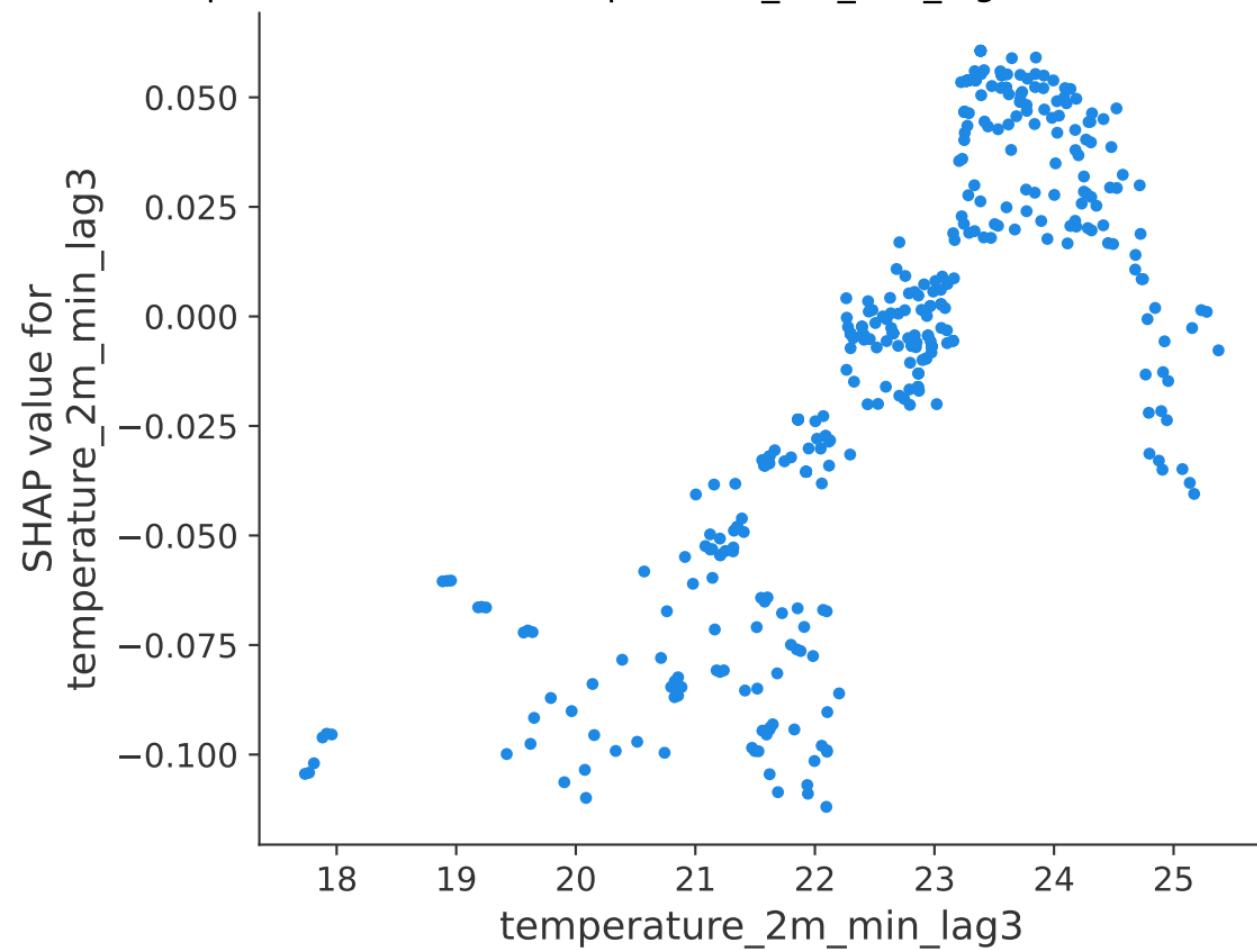
SHAP Dependence Plot for temperature_2m_min_lag3, Class 0 - Nusa Tenggara



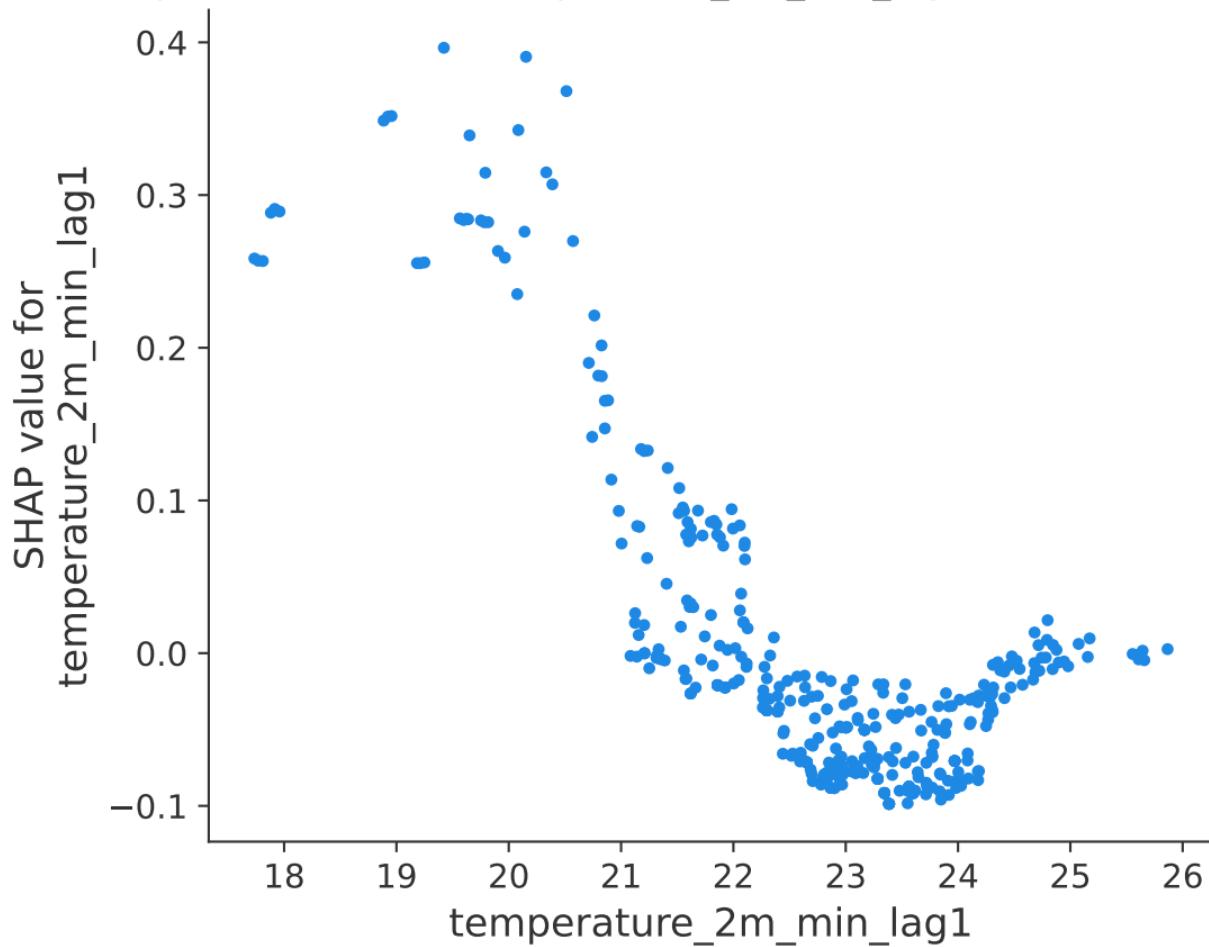
SHAP Dependence Plot for temperature_2m_min_lag3, Class 1 - Nusa Tenggara



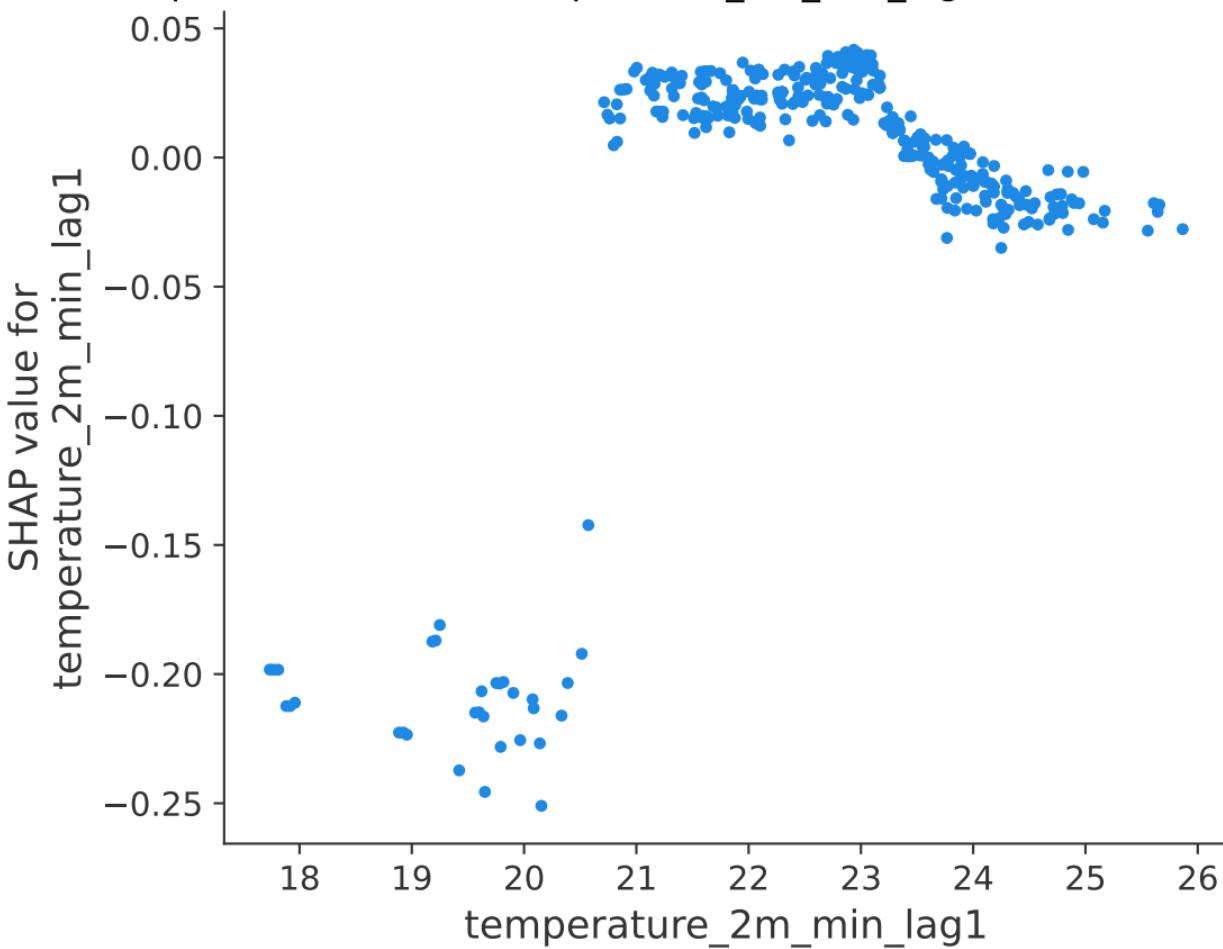
SHAP Dependence Plot for temperature_2m_min_lag3, Class 2 - Nusa Tenggara



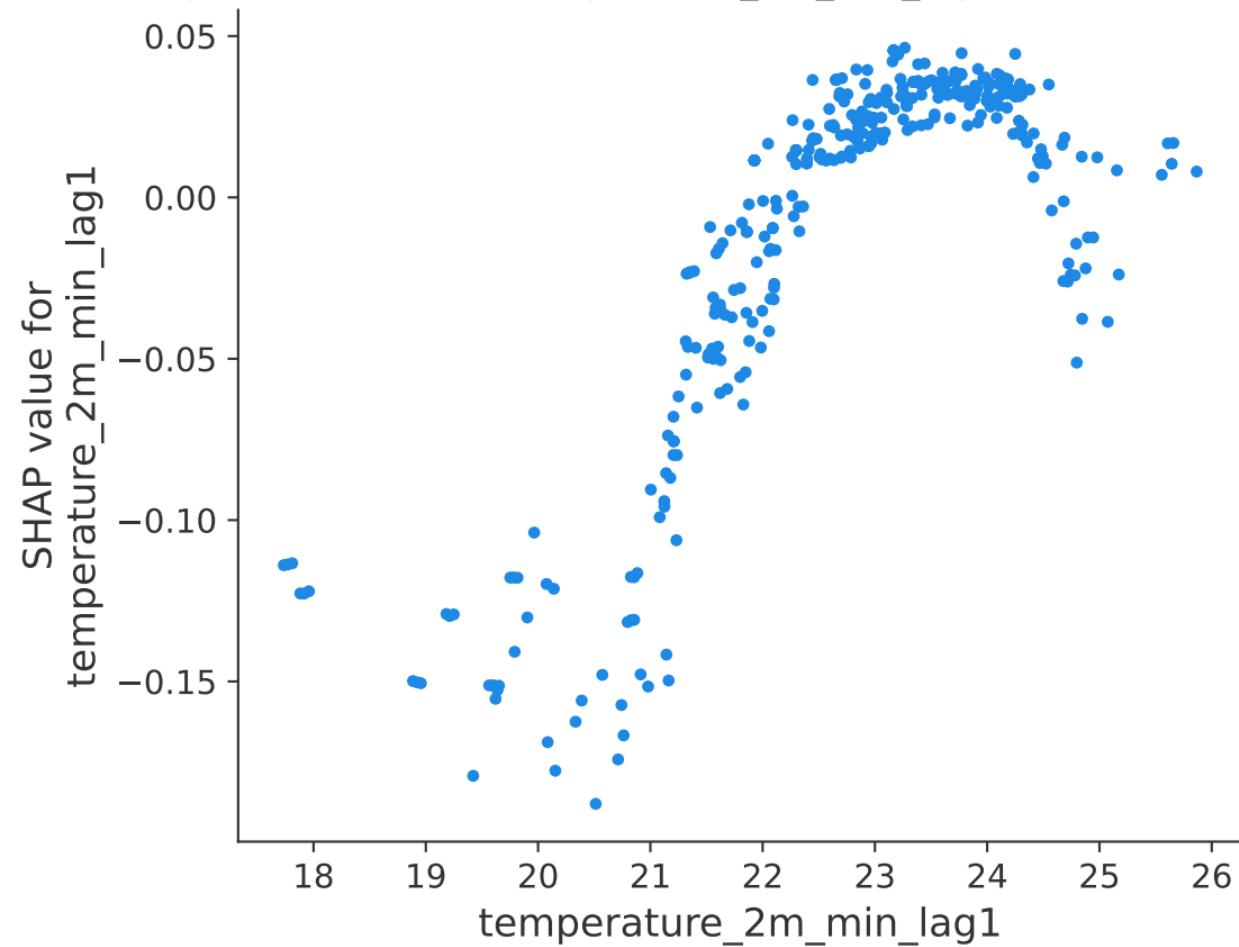
SHAP Dependence Plot for temperature_2m_min_lag1, Class 0 - Nusa Tenggara



SHAP Dependence Plot for temperature_2m_min_lag1, Class 1 - Nusa Tenggara

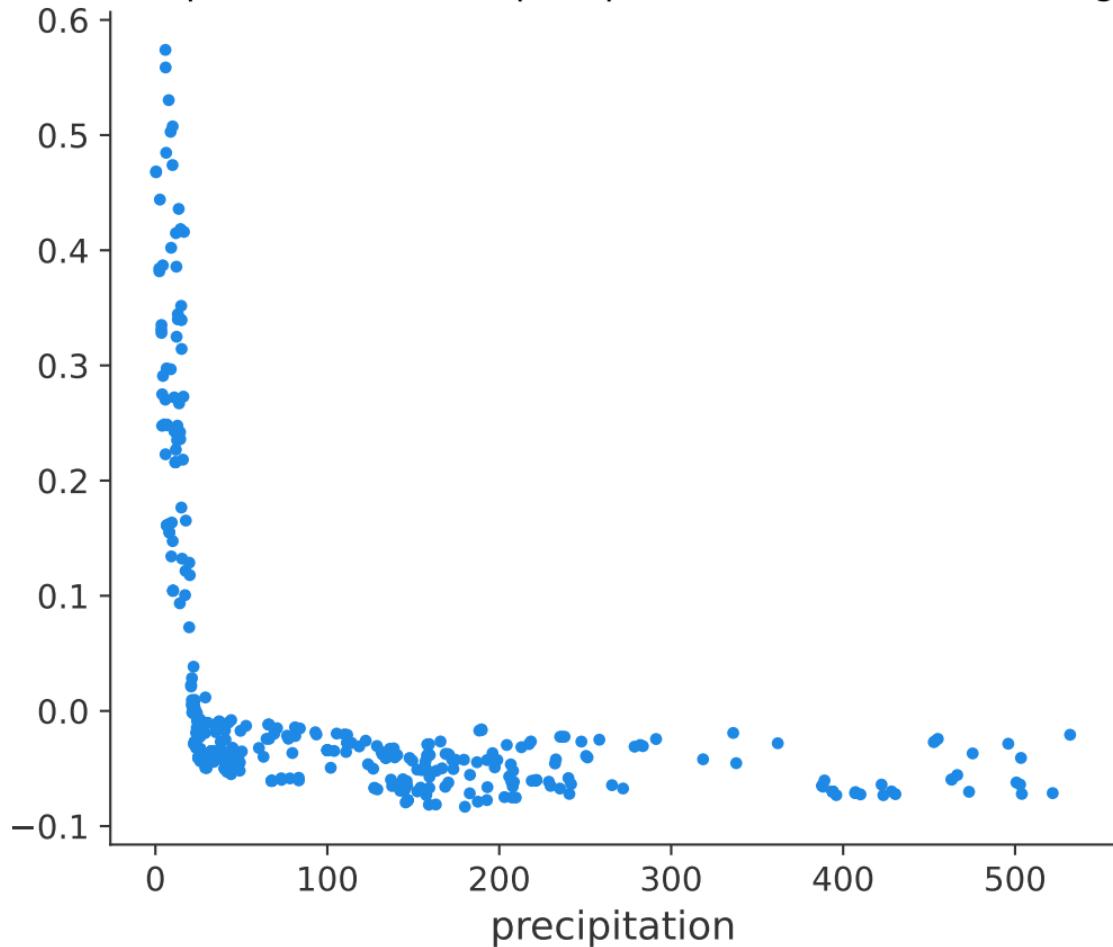


SHAP Dependence Plot for temperature_2m_min_lag1, Class 2 - Nusa Tenggara

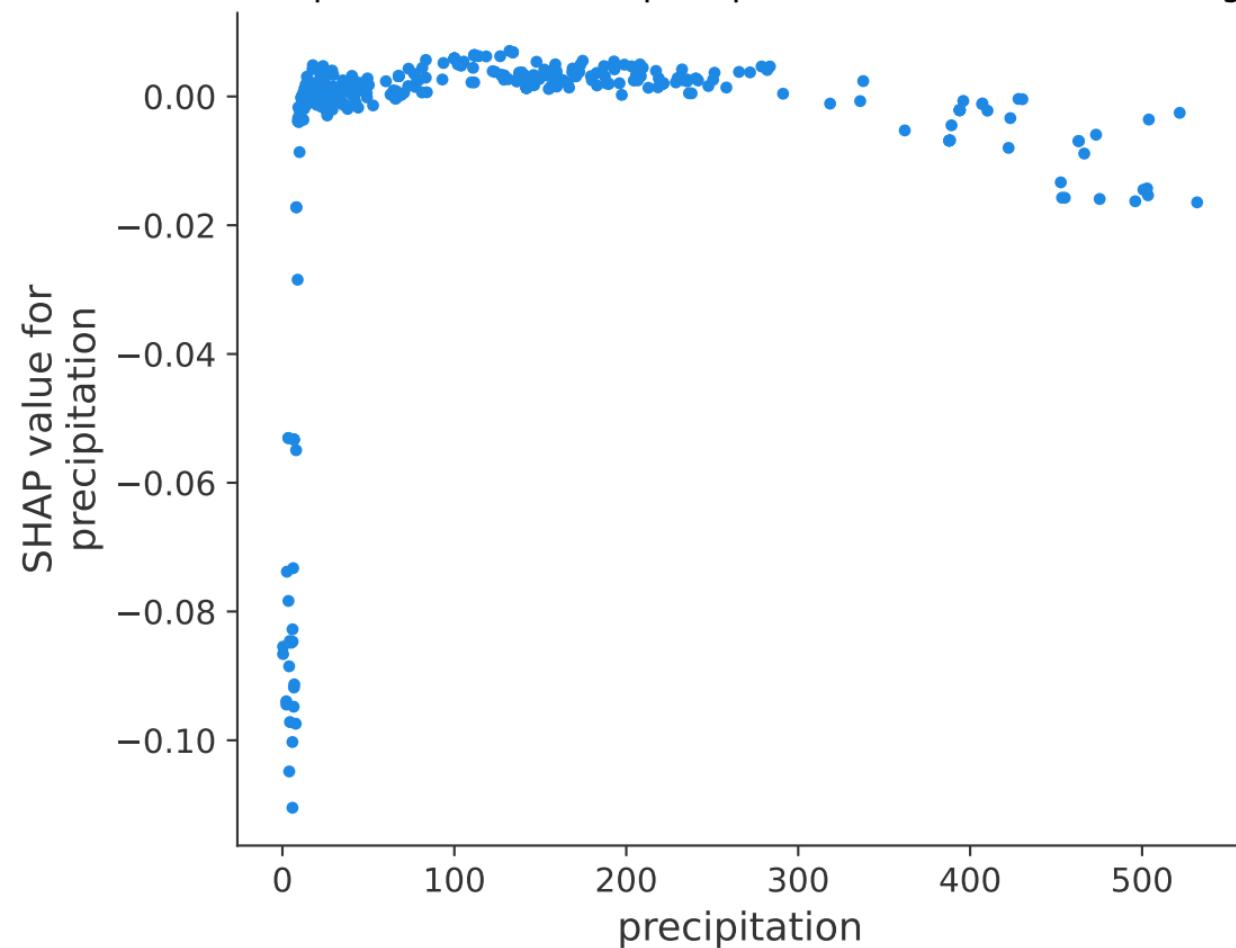


SHAP Dependence Plot for precipitation, Class 0 - Nusa Tenggara

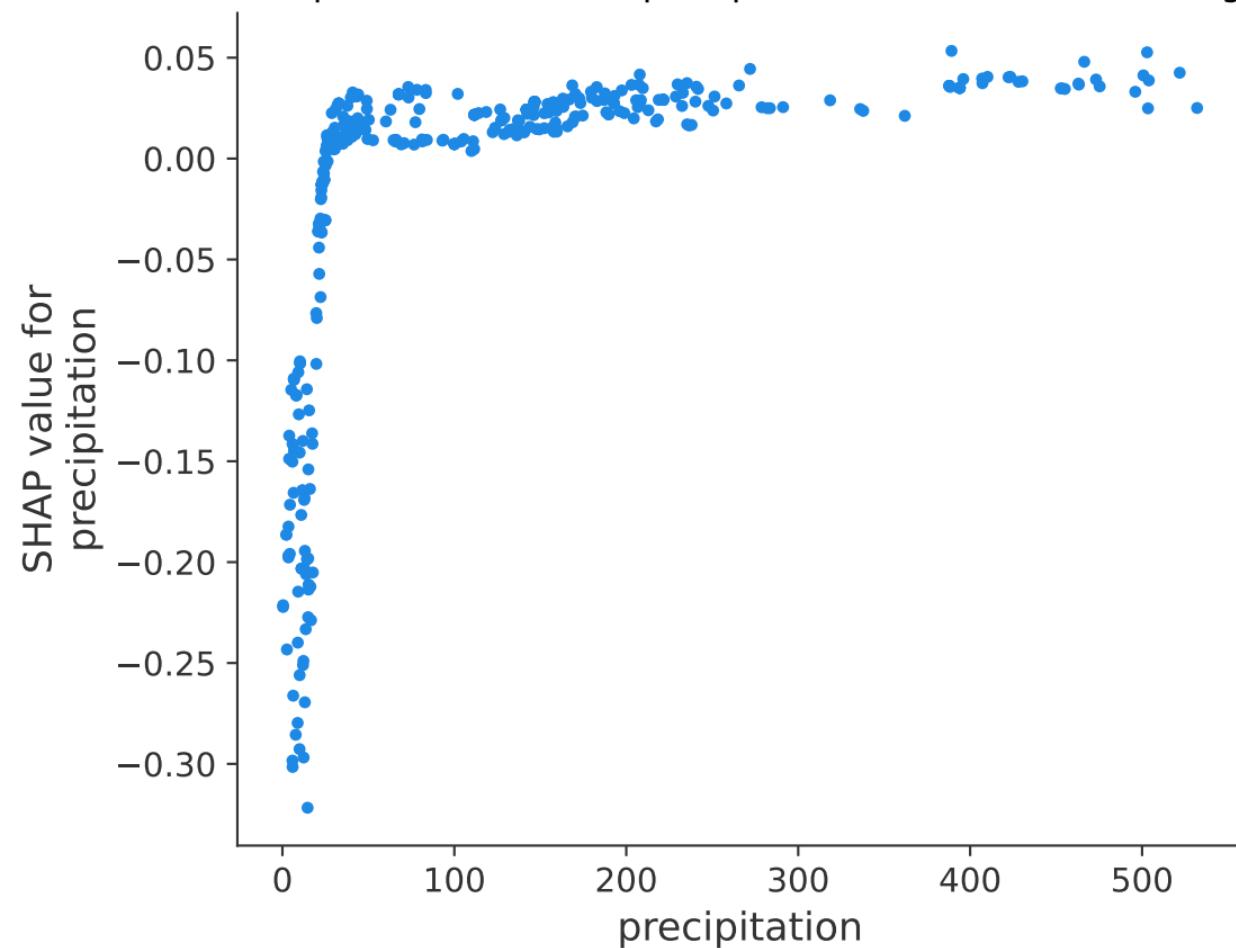
SHAP value for precipitation



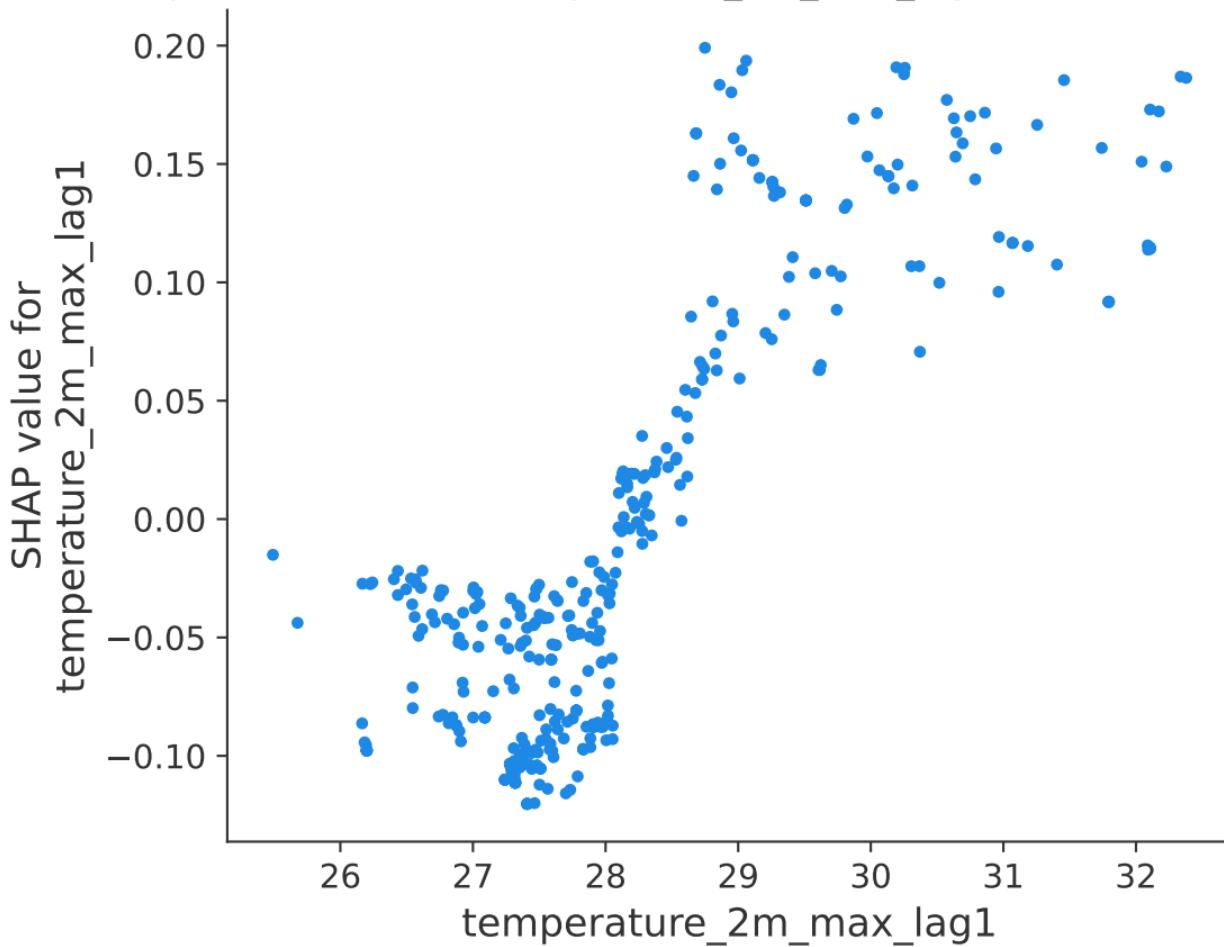
SHAP Dependence Plot for precipitation, Class 1 - Nusa Tenggara



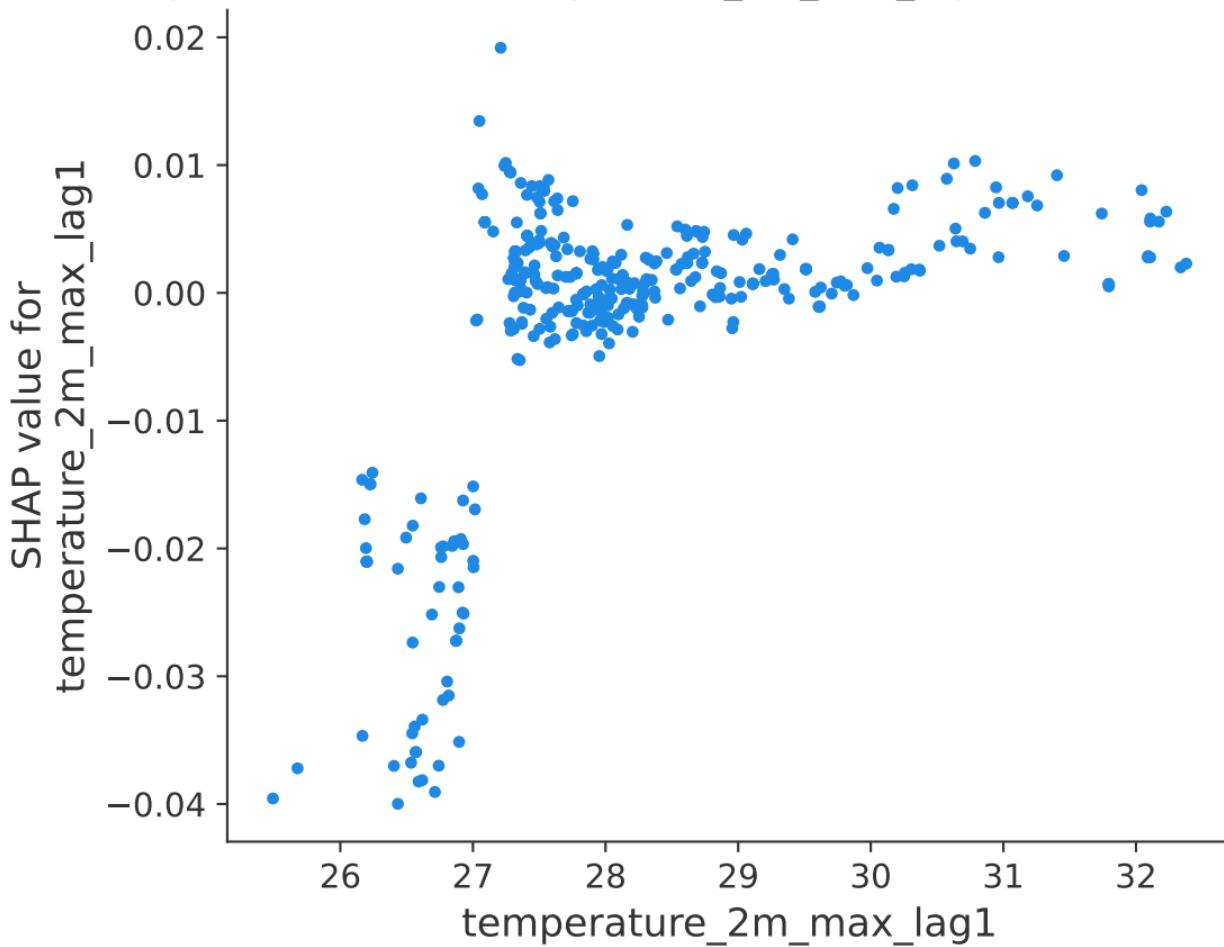
SHAP Dependence Plot for precipitation, Class 2 - Nusa Tenggara



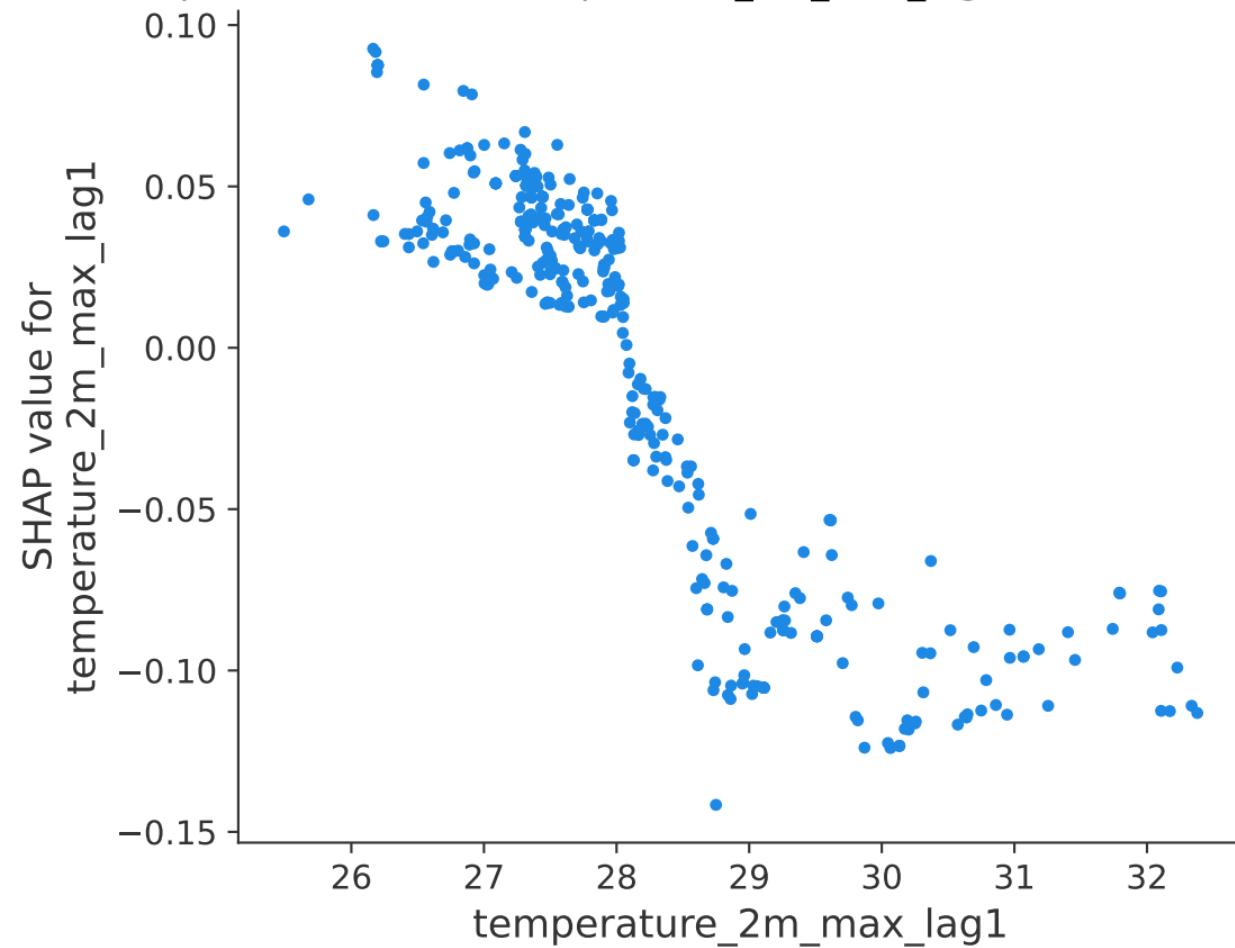
SHAP Dependence Plot for temperature_2m_max_lag1, Class 0 - Nusa Tenggara



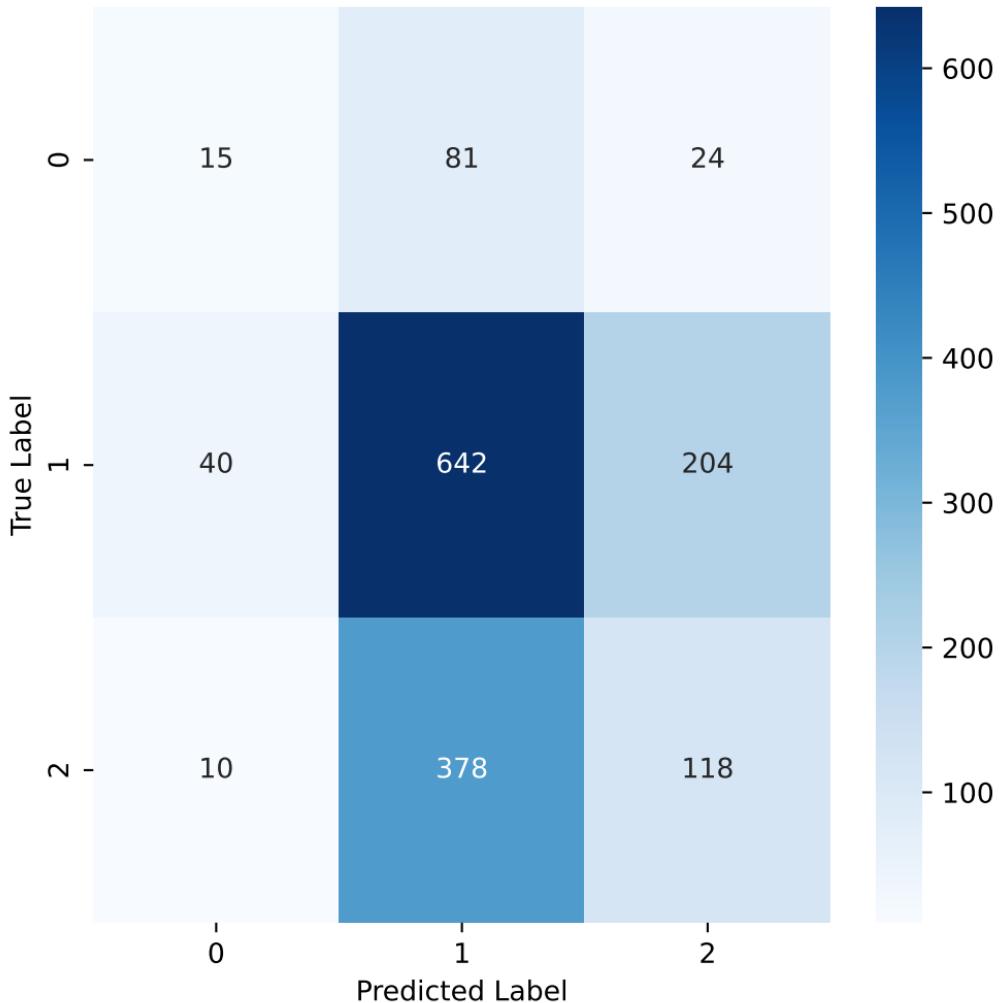
SHAP Dependence Plot for temperature_2m_max_lag1, Class 1 - Nusa Tenggara



SHAP Dependence Plot for temperature_2m_max_lag1, Class 2 - Nusa Tenggara



Confusion Matrix - Java

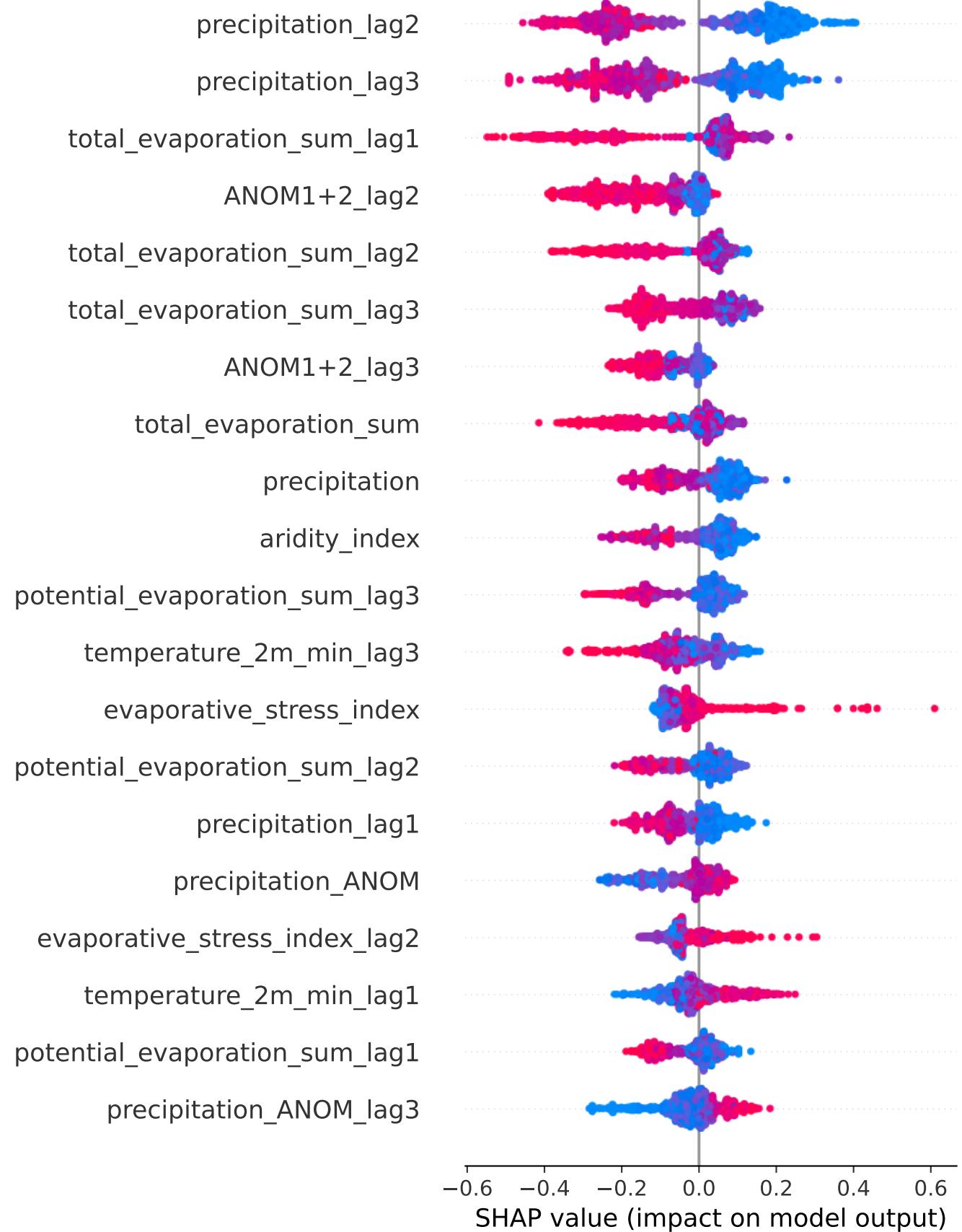


SHAP Beeswarm Plot for Class 0 - Java

High

Feature value

Low



SHAP Beeswarm Plot for Class 1 - Java

High

Feature value

Low

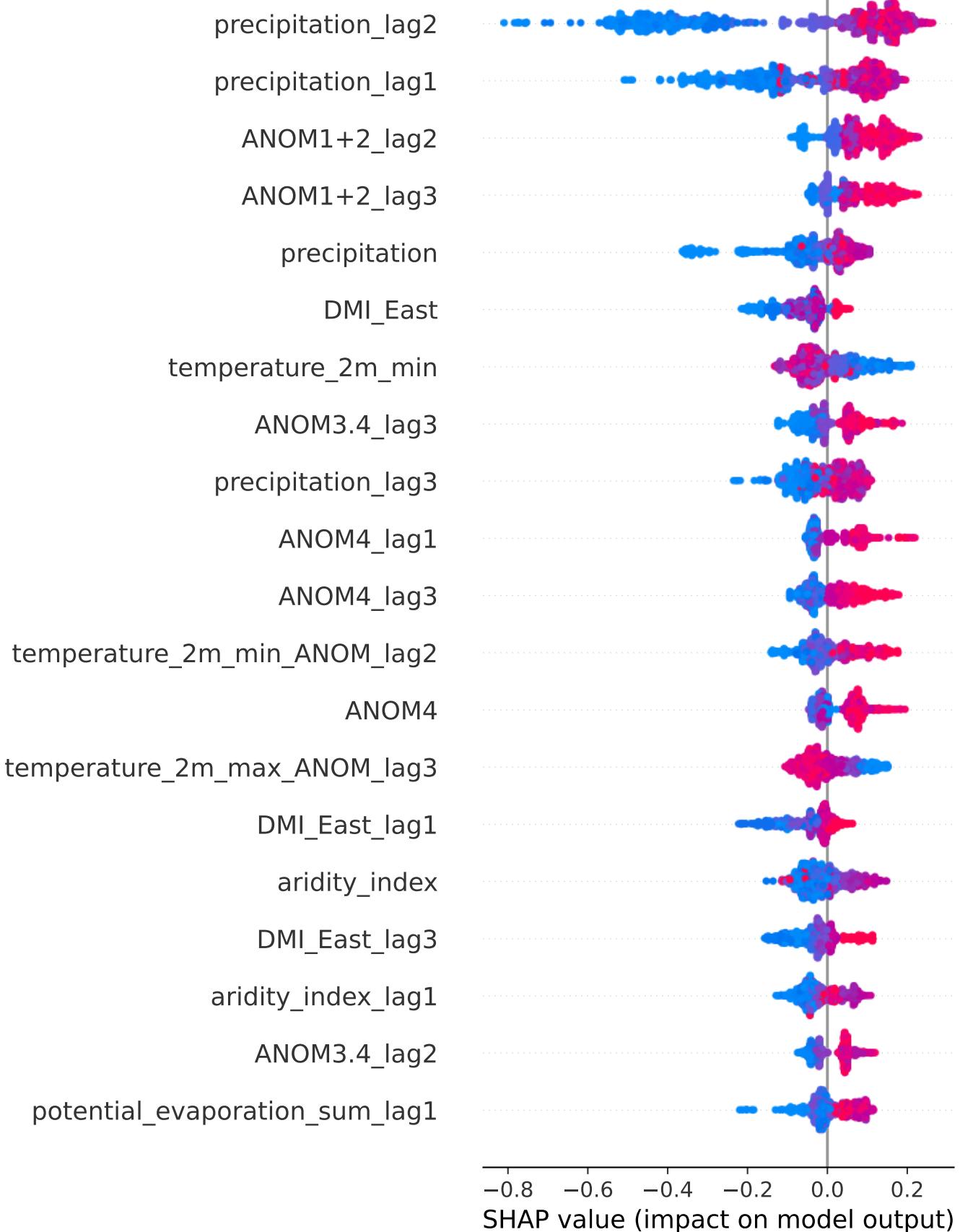
SHAP value (impact on model output)

evaporative_stress_index
potential_evaporation_sum
total_evaporation_sum_lag3
potential_evaporation_sum_lag1
precipitation_lag3
total_evaporation_sum
evaporative_stress_index_lag1
temperature_2m_min_lag3
temperature_2m_min_ANOM_lag1
temperature_2m_min_lag2
temperature_2m_max_ANOM_lag3
total_evaporation_sum_lag2
ANOM4_lag1
potential_evaporation_sum_ANOM_lag2
precipitation_ANOM_lag3
total_evaporation_sum_lag1
temperature_2m
ANOM3.4_lag2
temperature_2m_max
potential_evaporation_sum_ANOM

SHAP Beeswarm Plot for Class 2 - Java

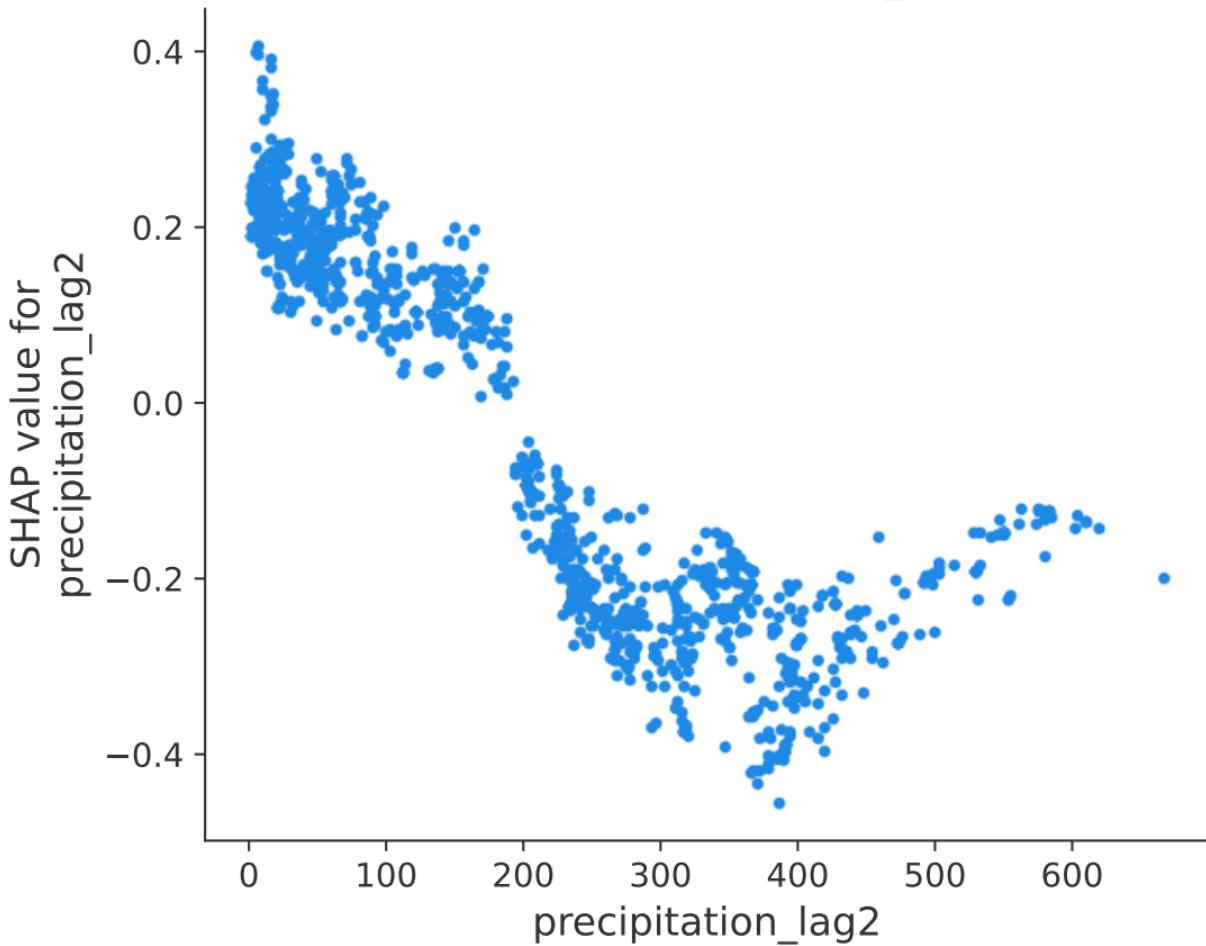
High

Feature value

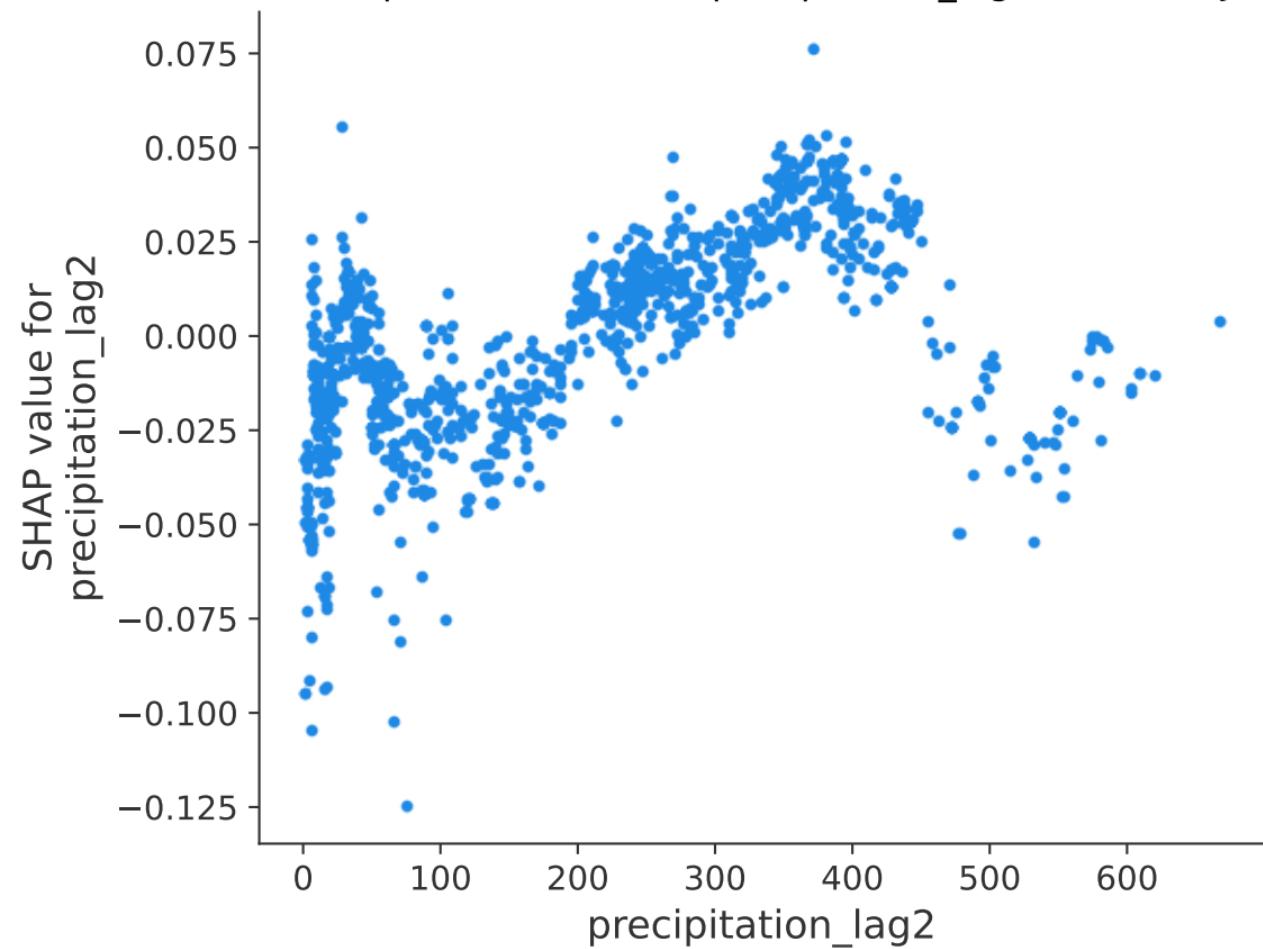
-0.8 -0.6 -0.4 -0.2 0.0 0.2
SHAP value (impact on model output)

Low

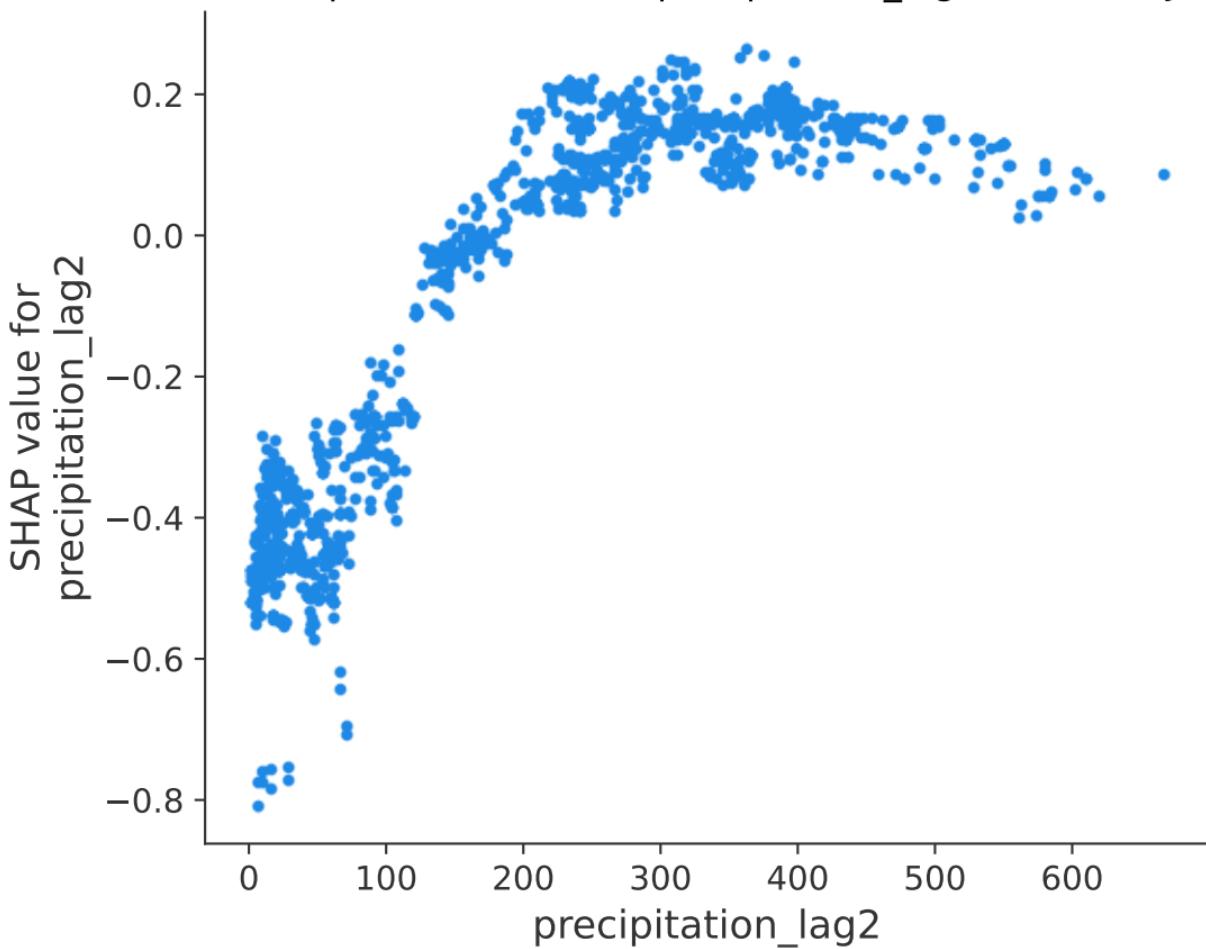
SHAP Dependence Plot for precipitation_lag2, Class 0 - Java



SHAP Dependence Plot for precipitation_lag2, Class 1 - Java



SHAP Dependence Plot for precipitation_lag2, Class 2 - Java



SHAP Dependence Plot for precipitation_lag3, Class 0 - Java

SHAP value for
precipitation_lag3

0.4

0.2

0.0

-0.2

-0.4

0

100

200

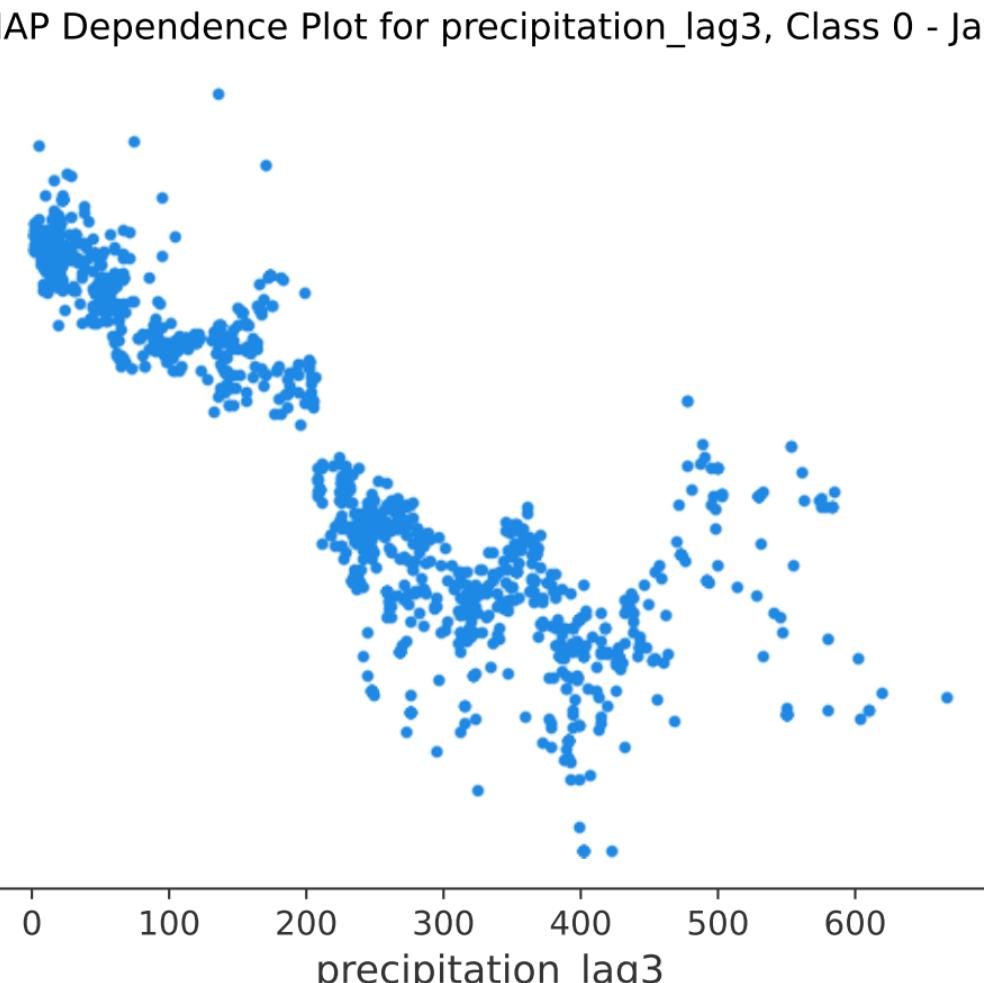
300

400

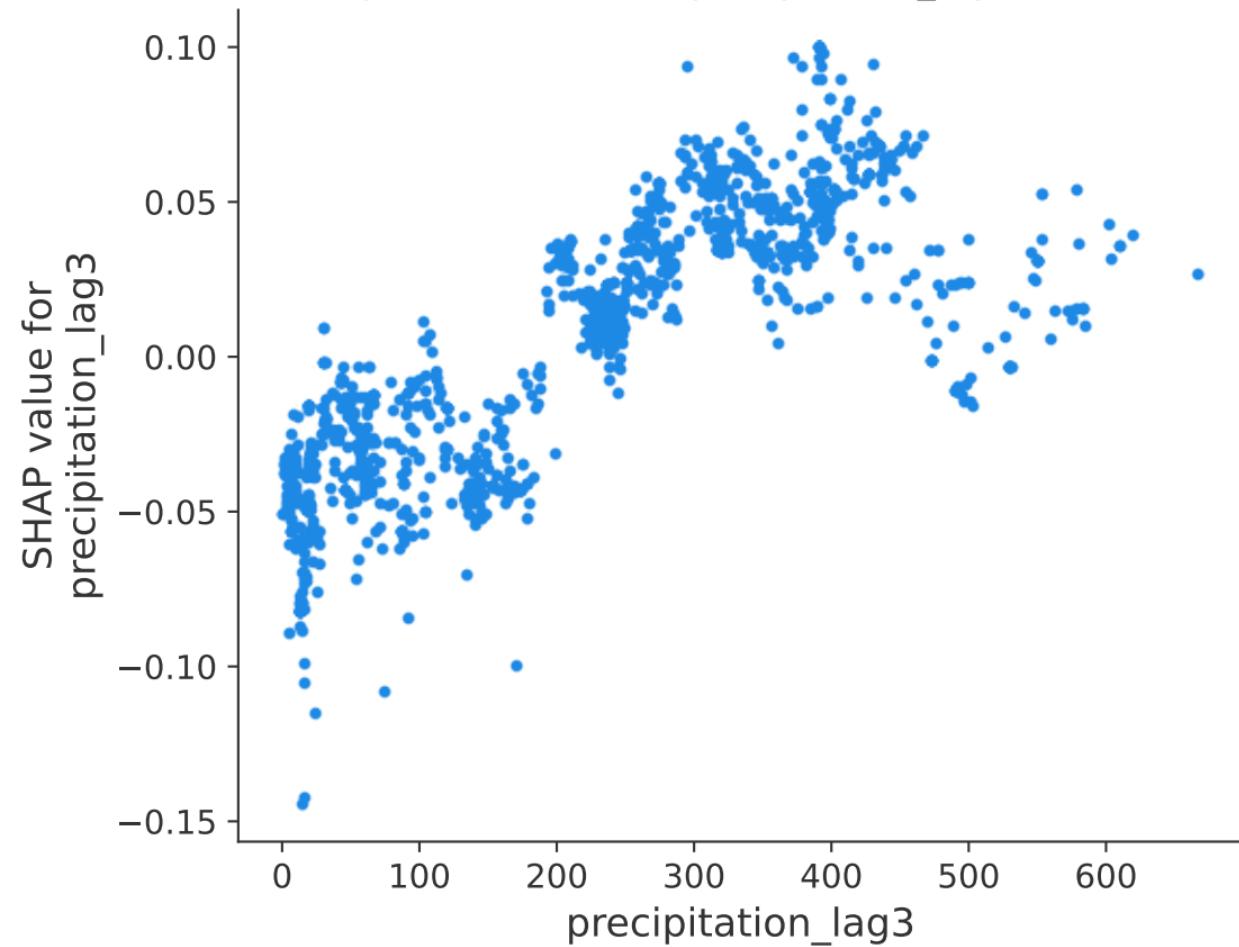
500

600

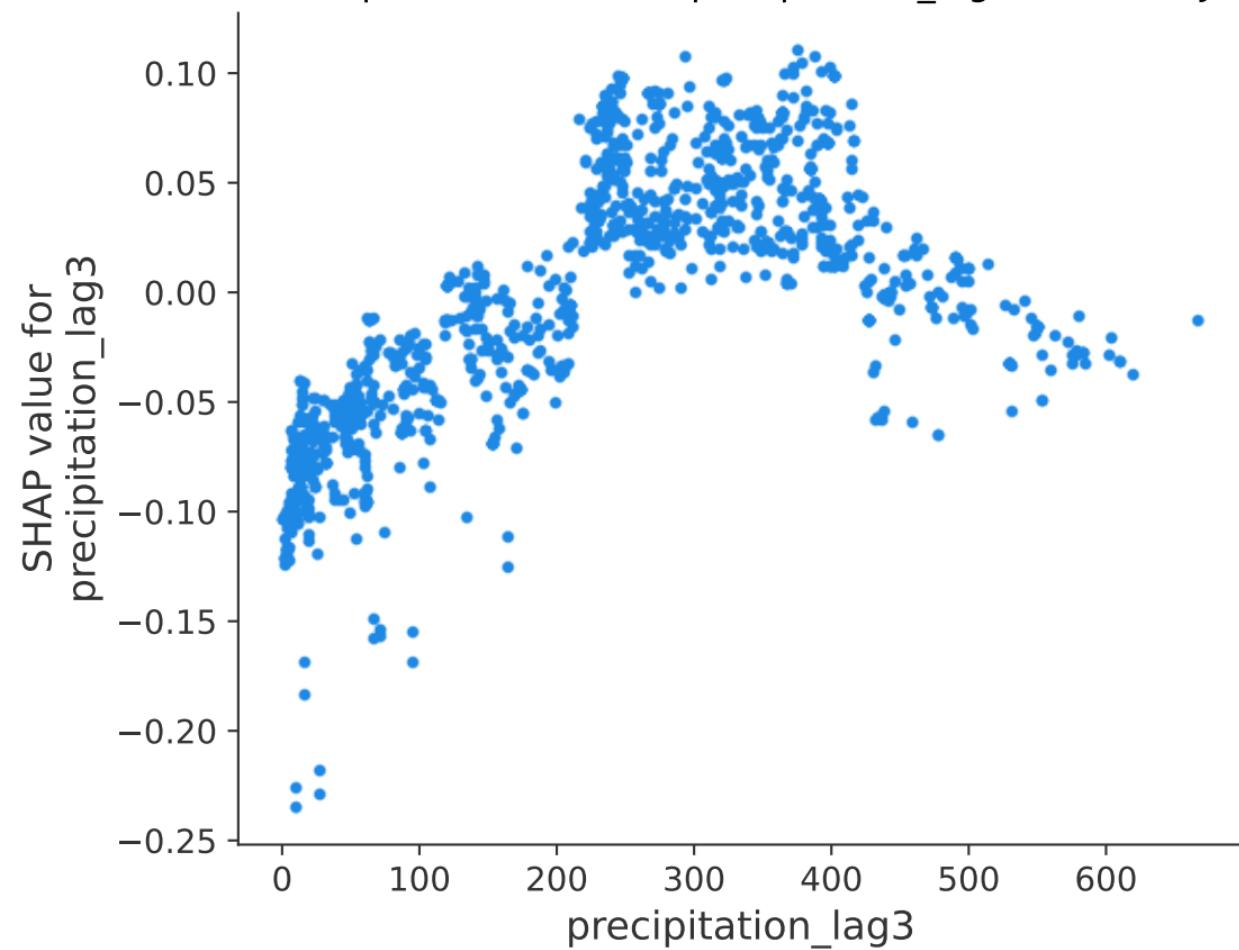
precipitation_lag3



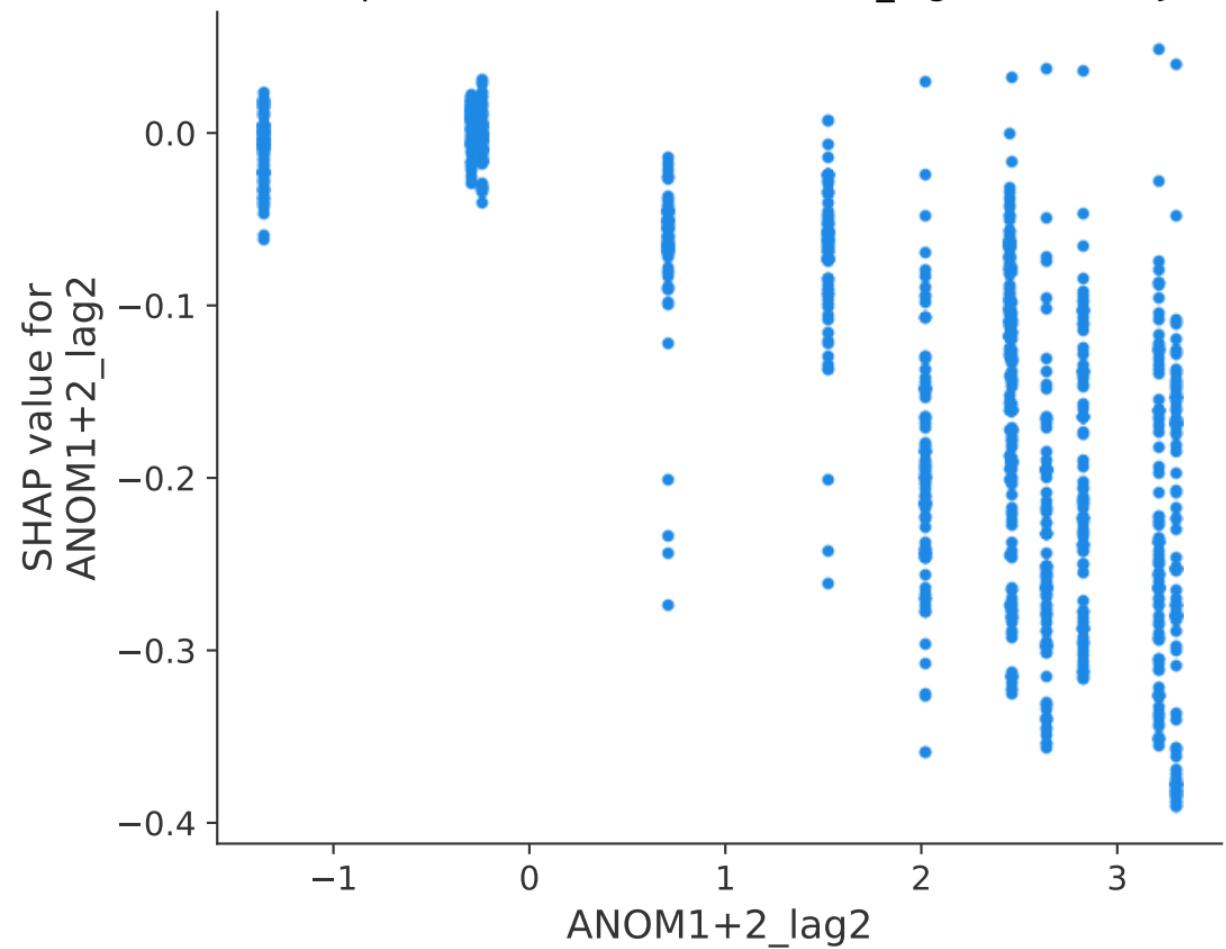
SHAP Dependence Plot for precipitation_lag3, Class 1 - Java



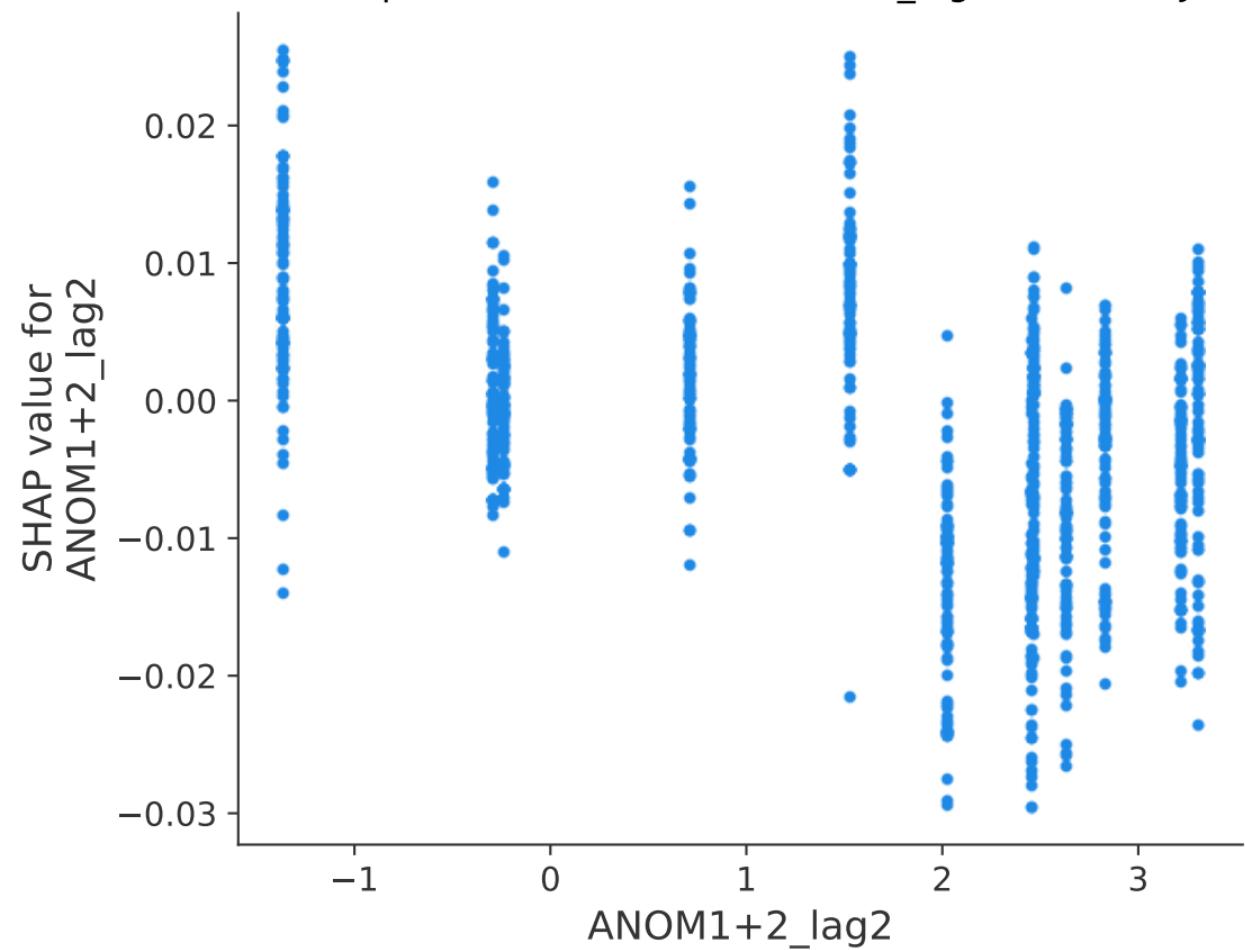
SHAP Dependence Plot for precipitation_lag3, Class 2 - Java



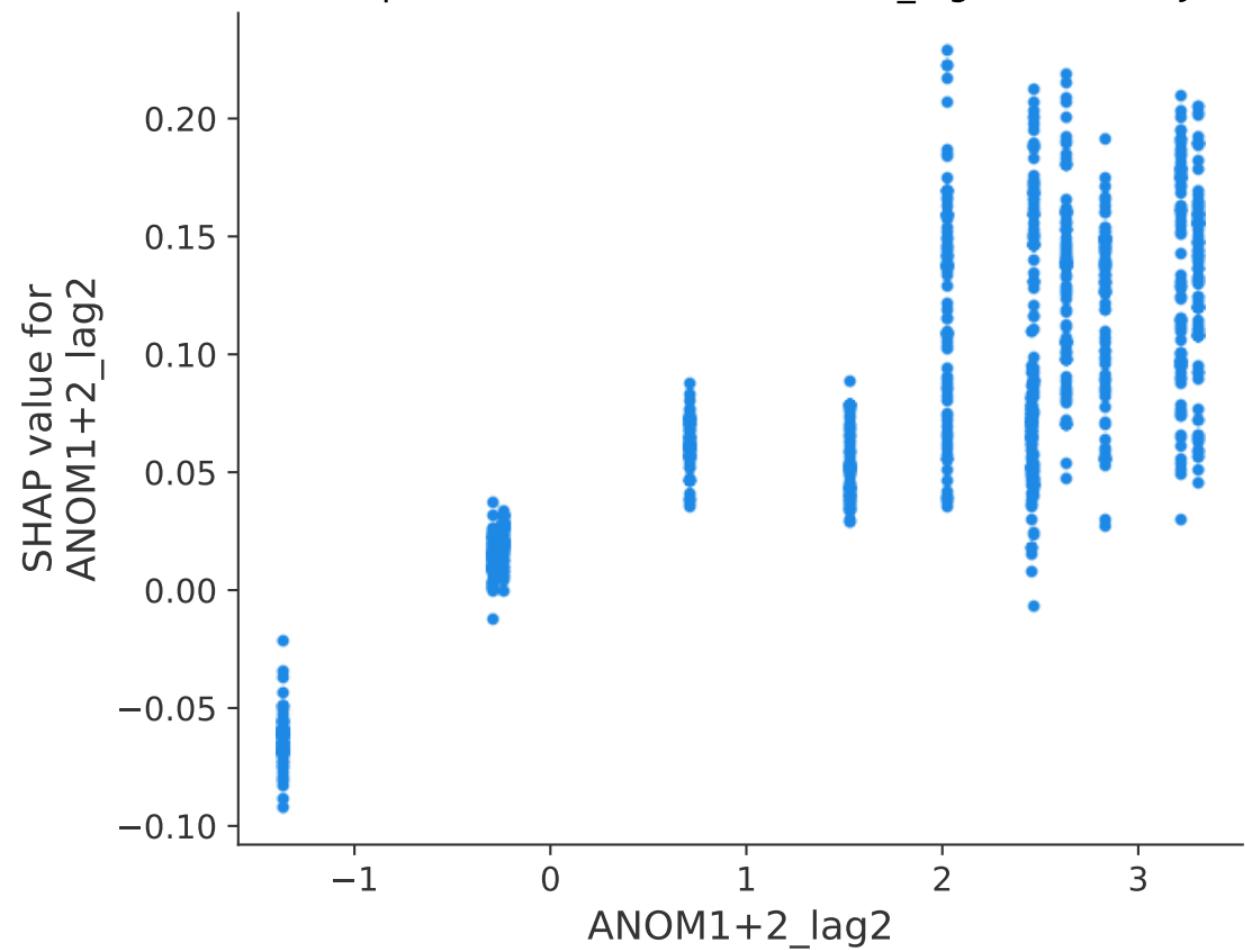
SHAP Dependence Plot for ANOM1+2_lag2, Class 0 - Java



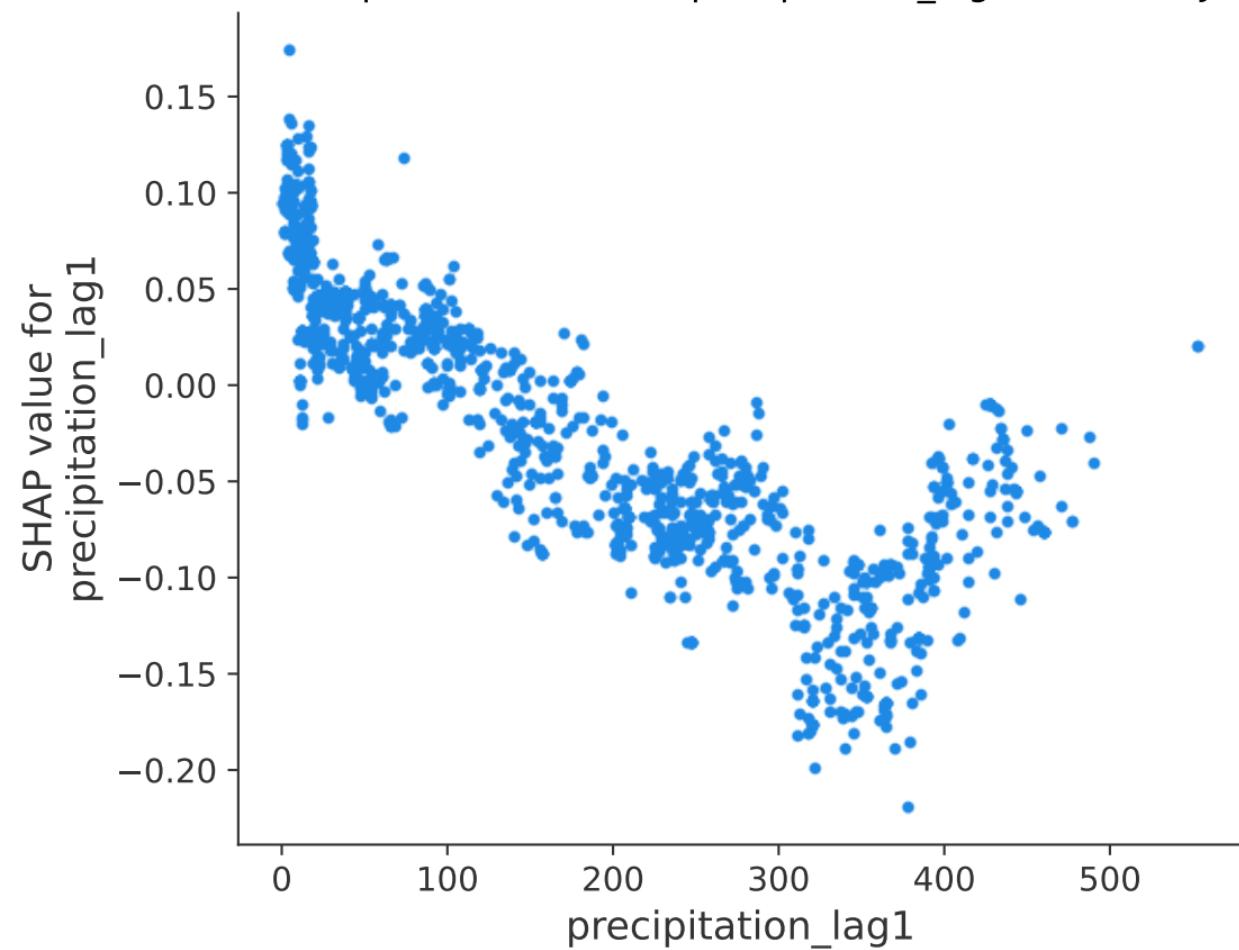
SHAP Dependence Plot for ANOM1+2_lag2, Class 1 - Java



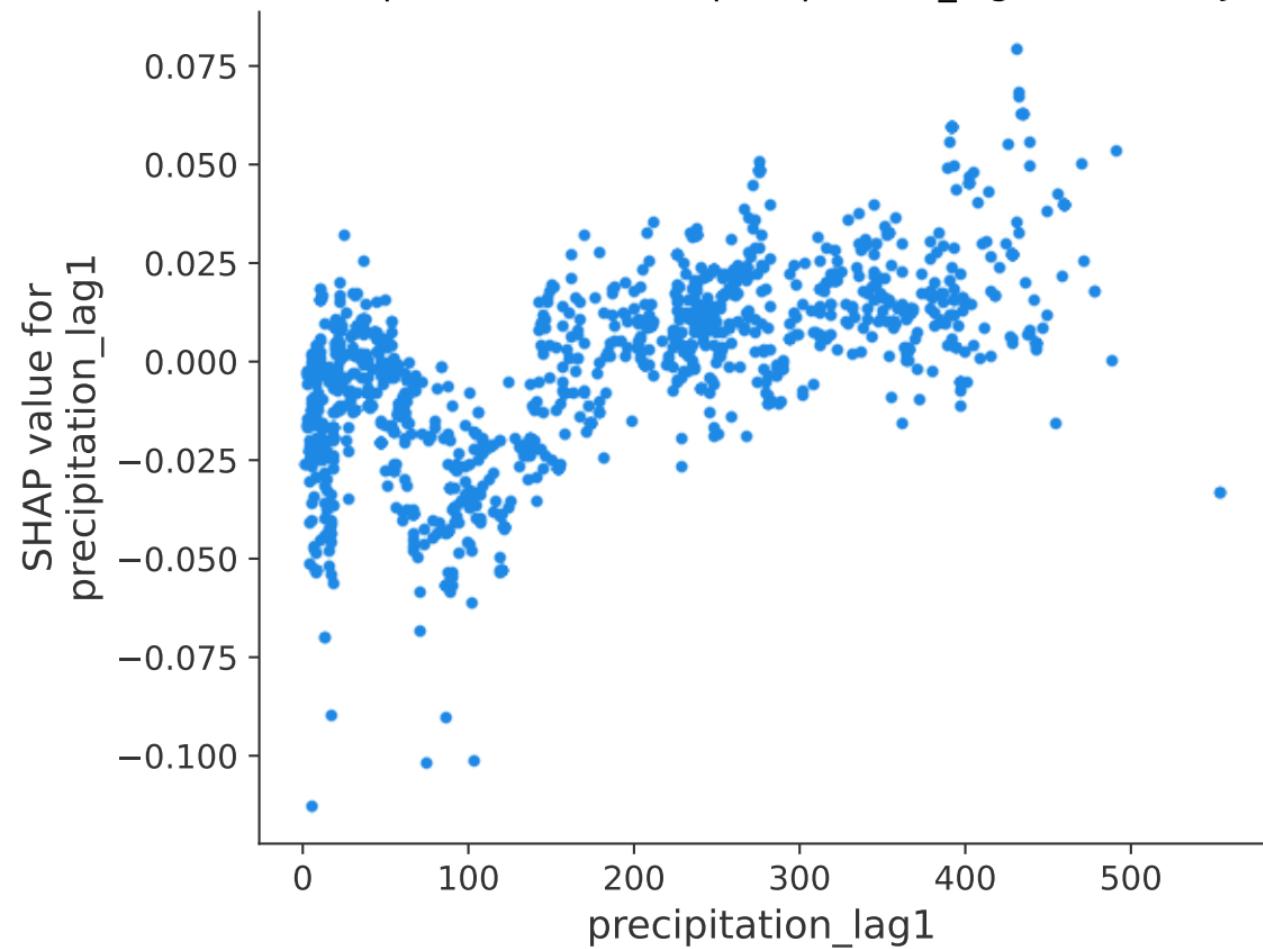
SHAP Dependence Plot for ANOM1+2_lag2, Class 2 - Java



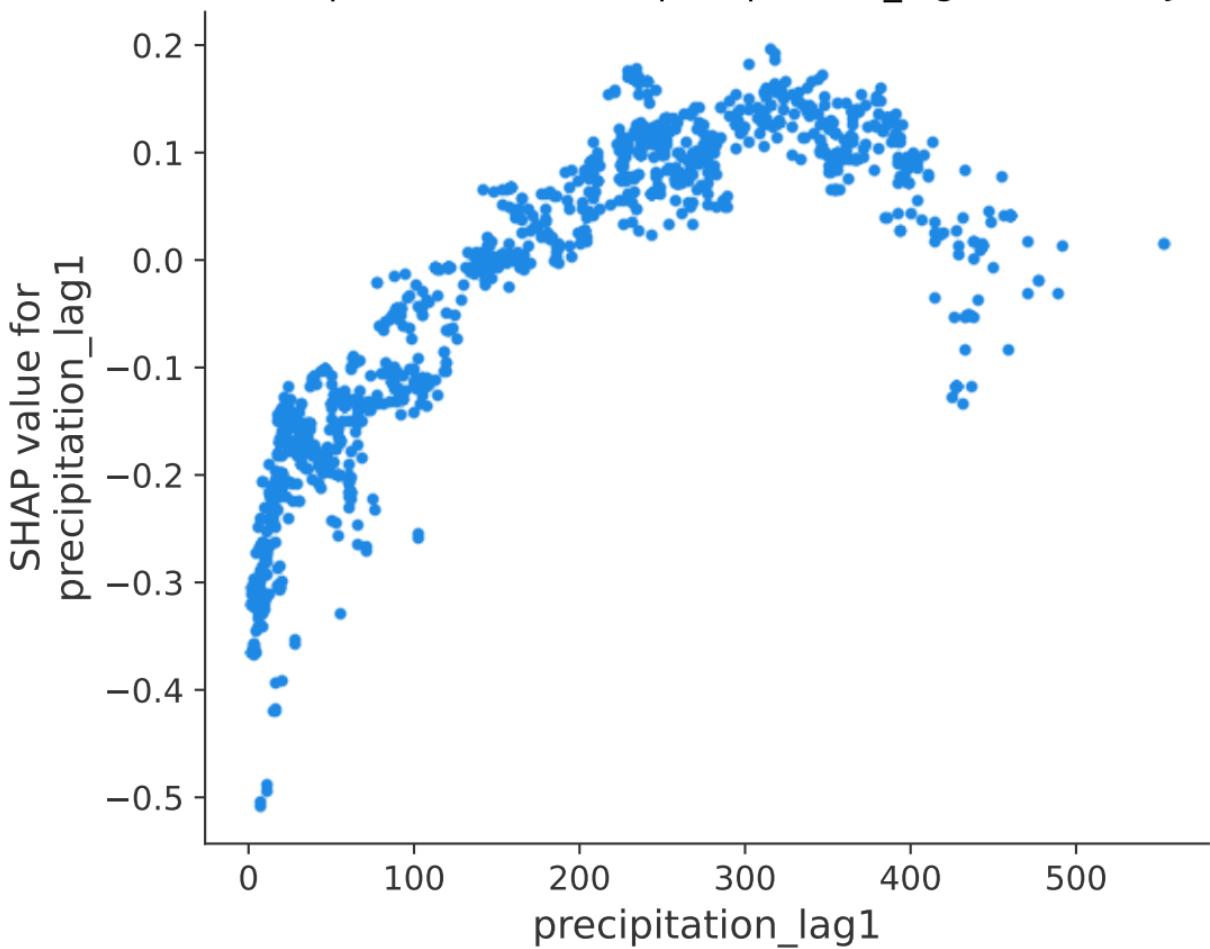
SHAP Dependence Plot for precipitation_lag1, Class 0 - Java



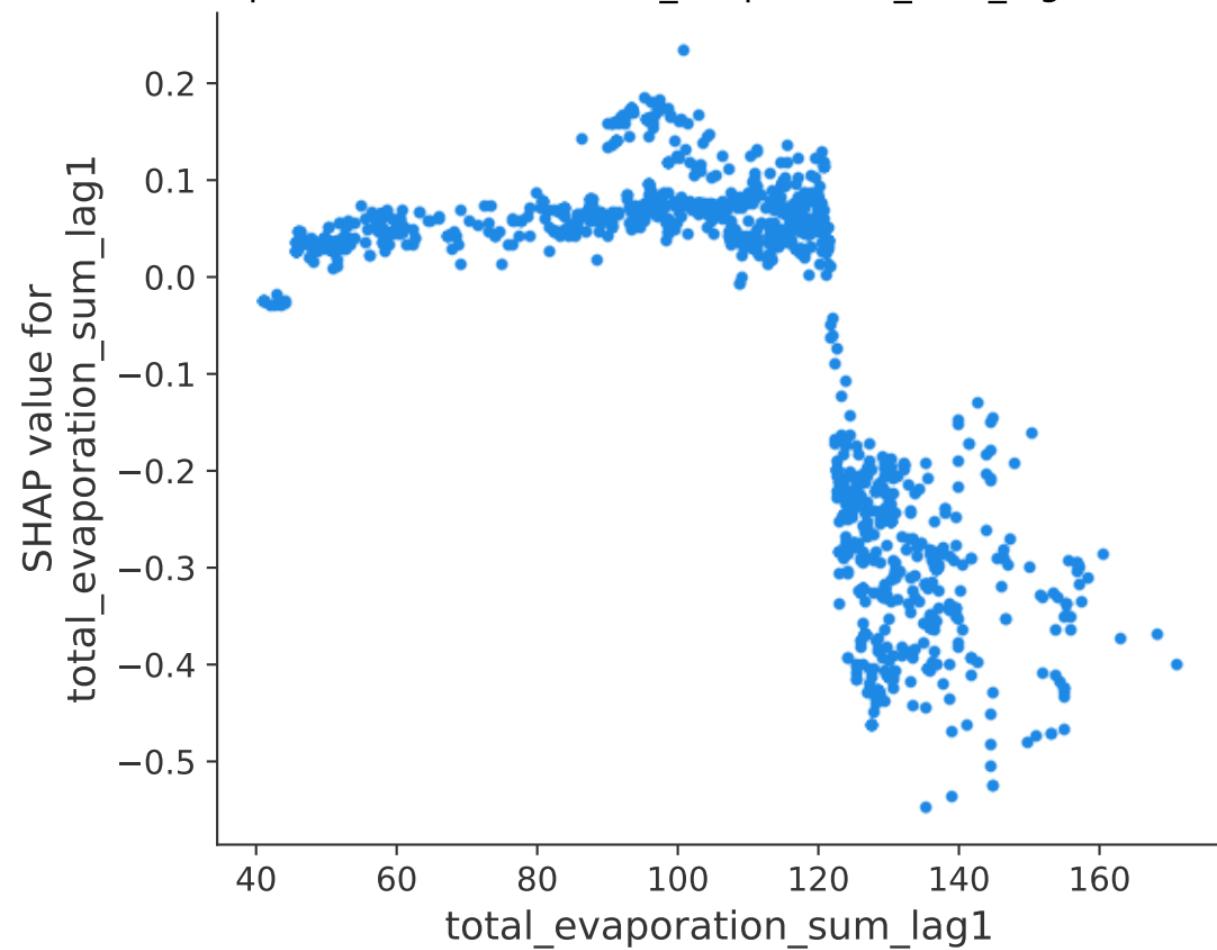
SHAP Dependence Plot for precipitation_lag1, Class 1 - Java



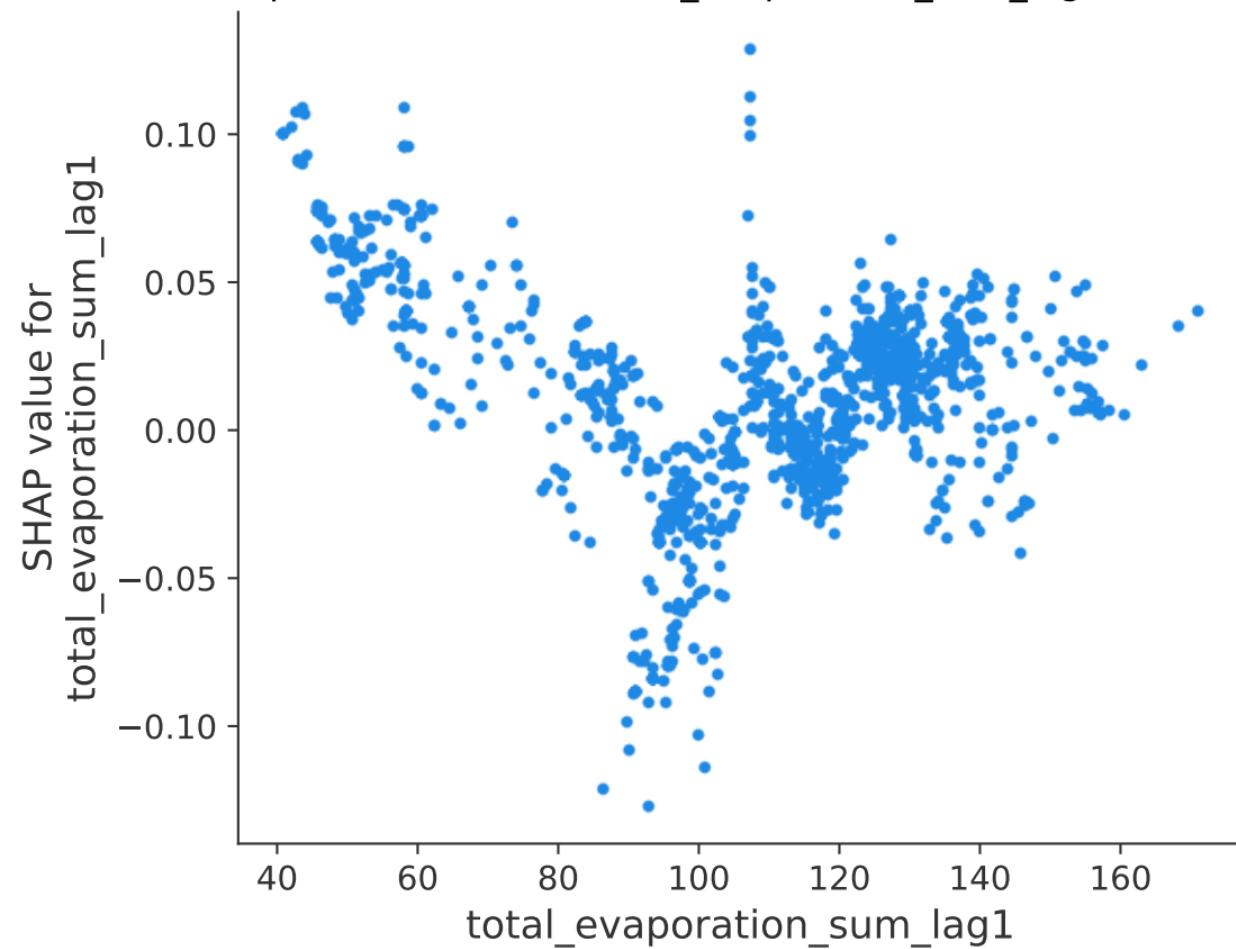
SHAP Dependence Plot for precipitation_lag1, Class 2 - Java



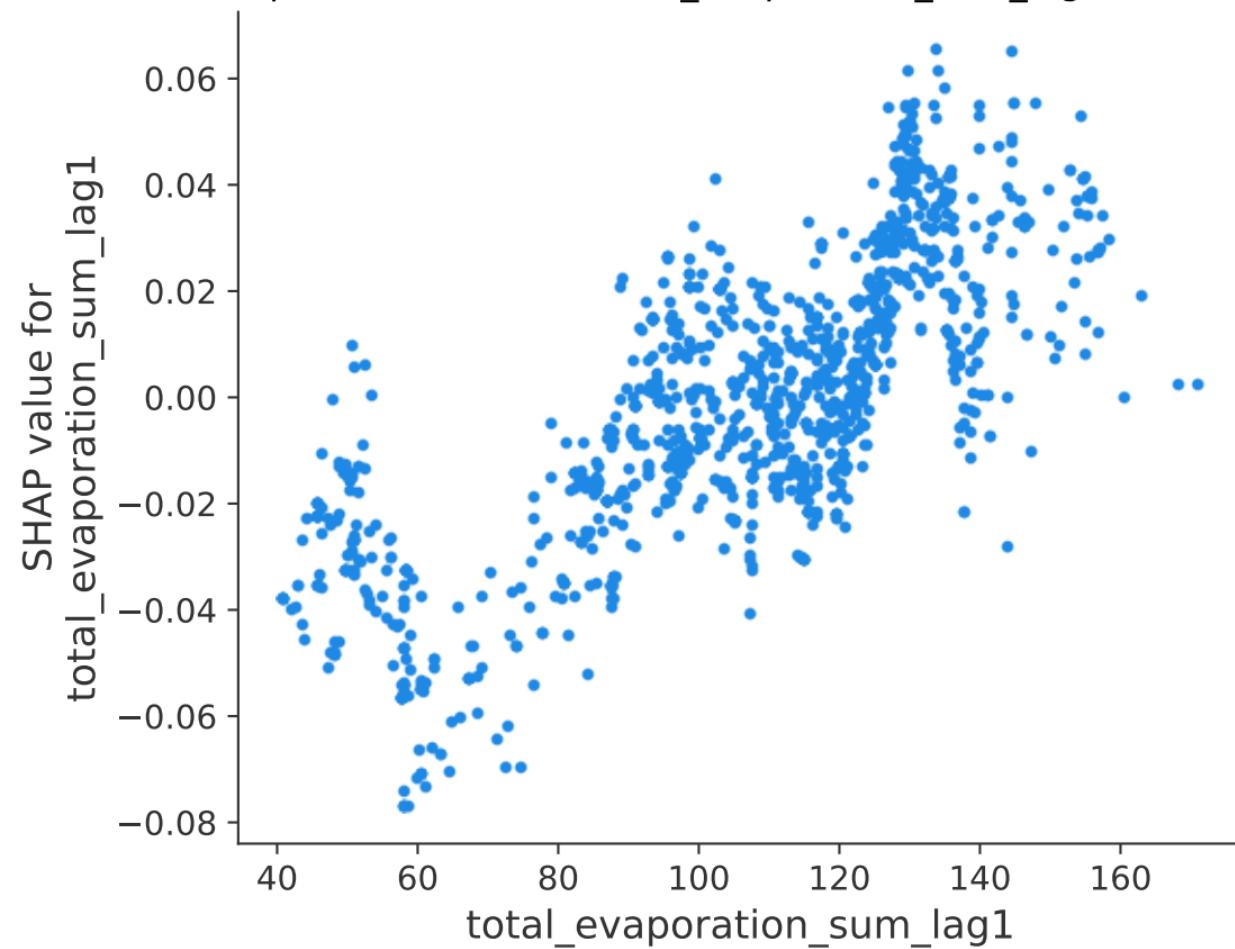
SHAP Dependence Plot for total_evaporation_sum_lag1, Class 0 - Java



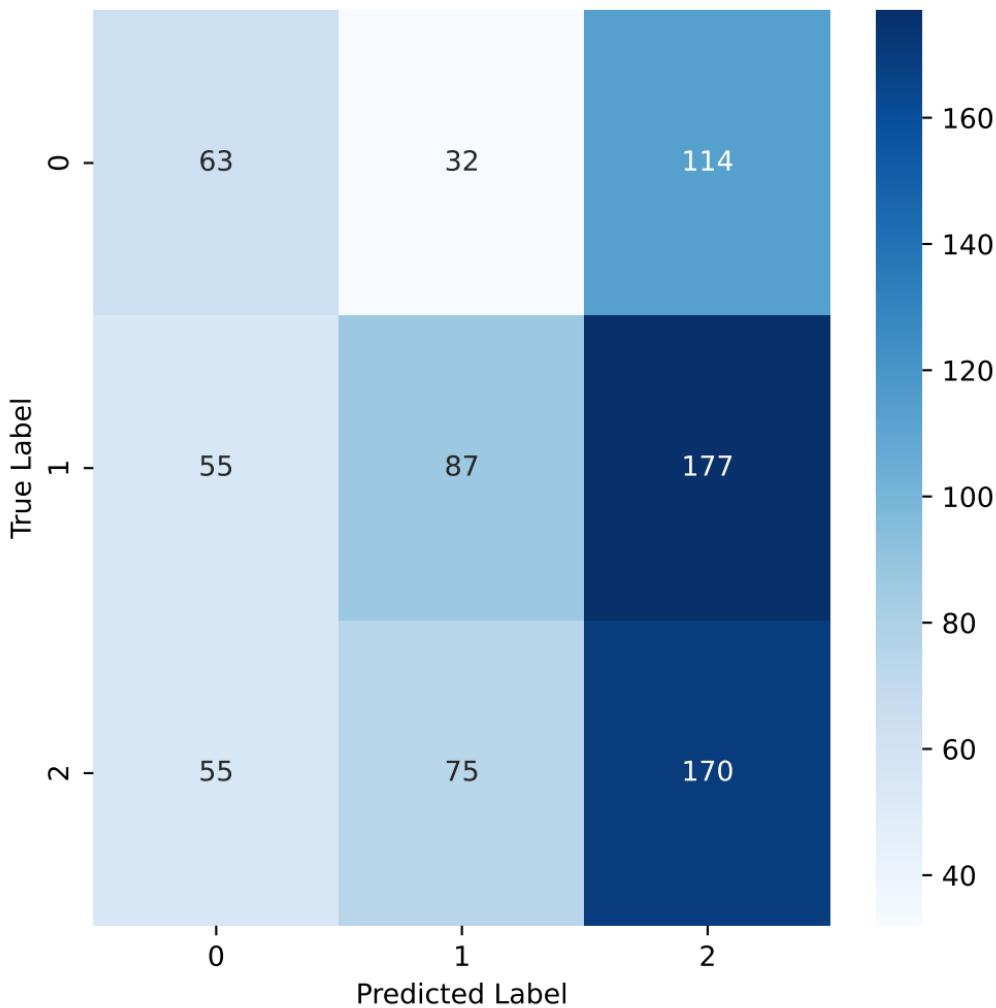
SHAP Dependence Plot for total_evaporation_sum_lag1, Class 1 - Java



SHAP Dependence Plot for total_evaporation_sum_lag1, Class 2 - Java



Confusion Matrix - Sulawesi



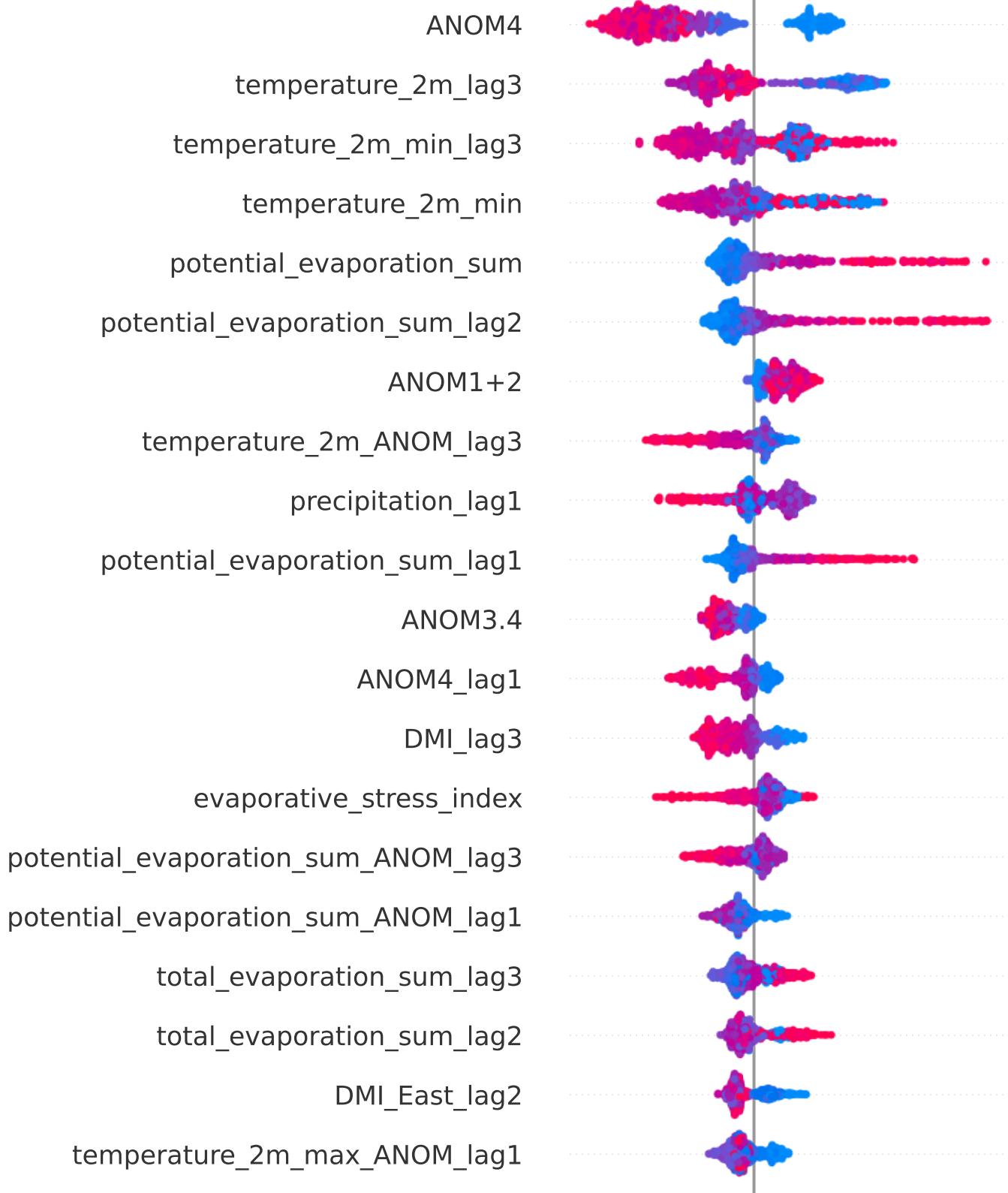
SHAP Beeswarm Plot for Class 0 - Sulawesi

High

Feature value

Low

SHAP value (impact on model output)

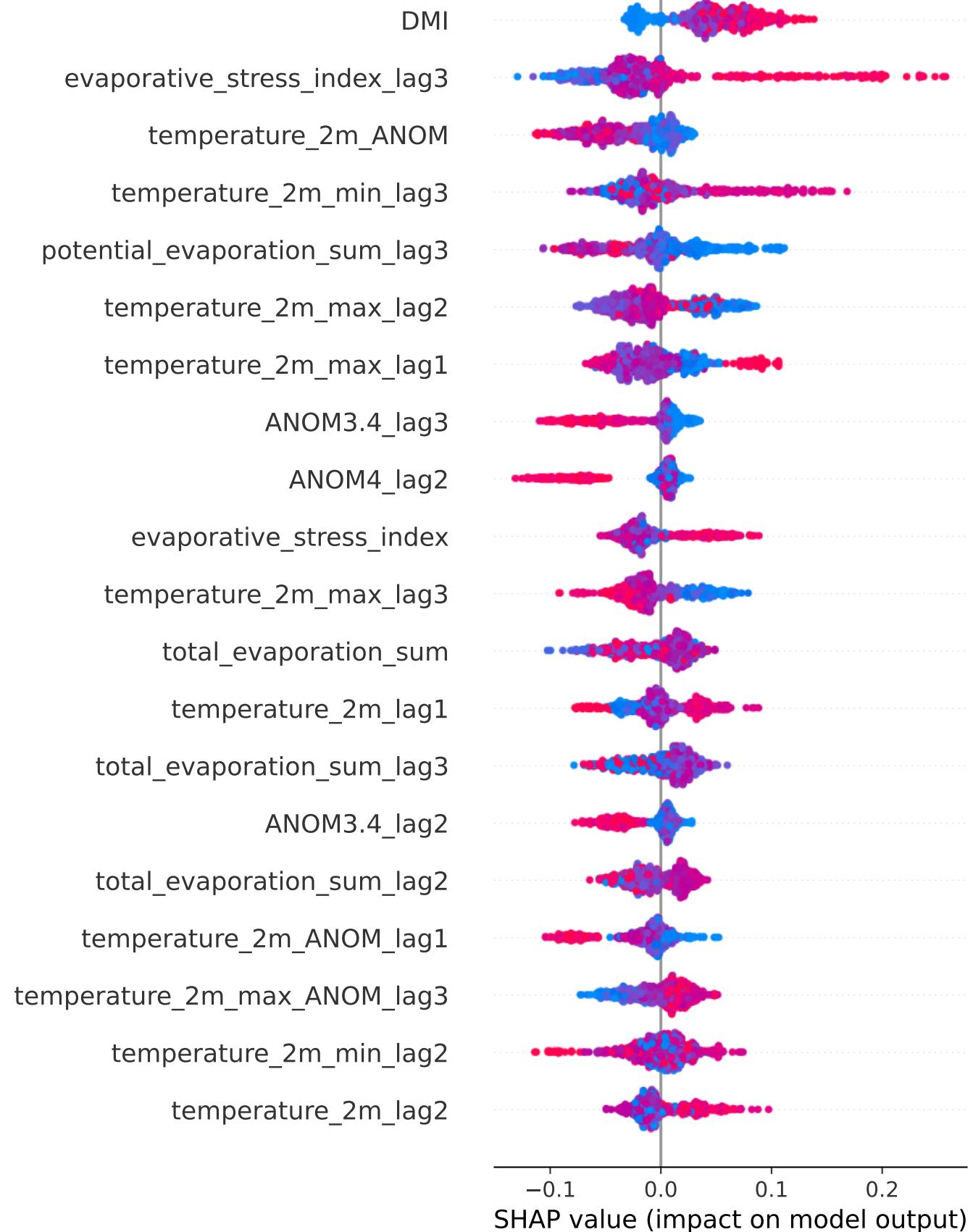


SHAP Beeswarm Plot for Class 1 - Sulawesi

High

Feature value

Low



SHAP Beeswarm Plot for Class 2 - Sulawesi

High

Feature value

Low

ANOM4

temperature_2m_max_lag3

ANOM4_lag1

potential_evaporation_sum

potential_evaporation_sum_ANOM

evaporative_stress_index

potential_evaporation_sum_lag1

temperature_2m_min_ANOM_lag1

ANOM1+2

temperature_2m_min_lag3

DMI_lag1

precipitation

temperature_2m_min_lag1

temperature_2m_max

ANOM3_lag2

potential_evaporation_sum_ANOM_lag1

temperature_2m_min_ANOM_lag2

DMI

temperature_2m_lag1

precipitation_lag1

SHAP value (impact on model output)

SHAP Dependence Plot for ANOM4, Class 0 - Sulawesi

SHAP value for
ANOM4

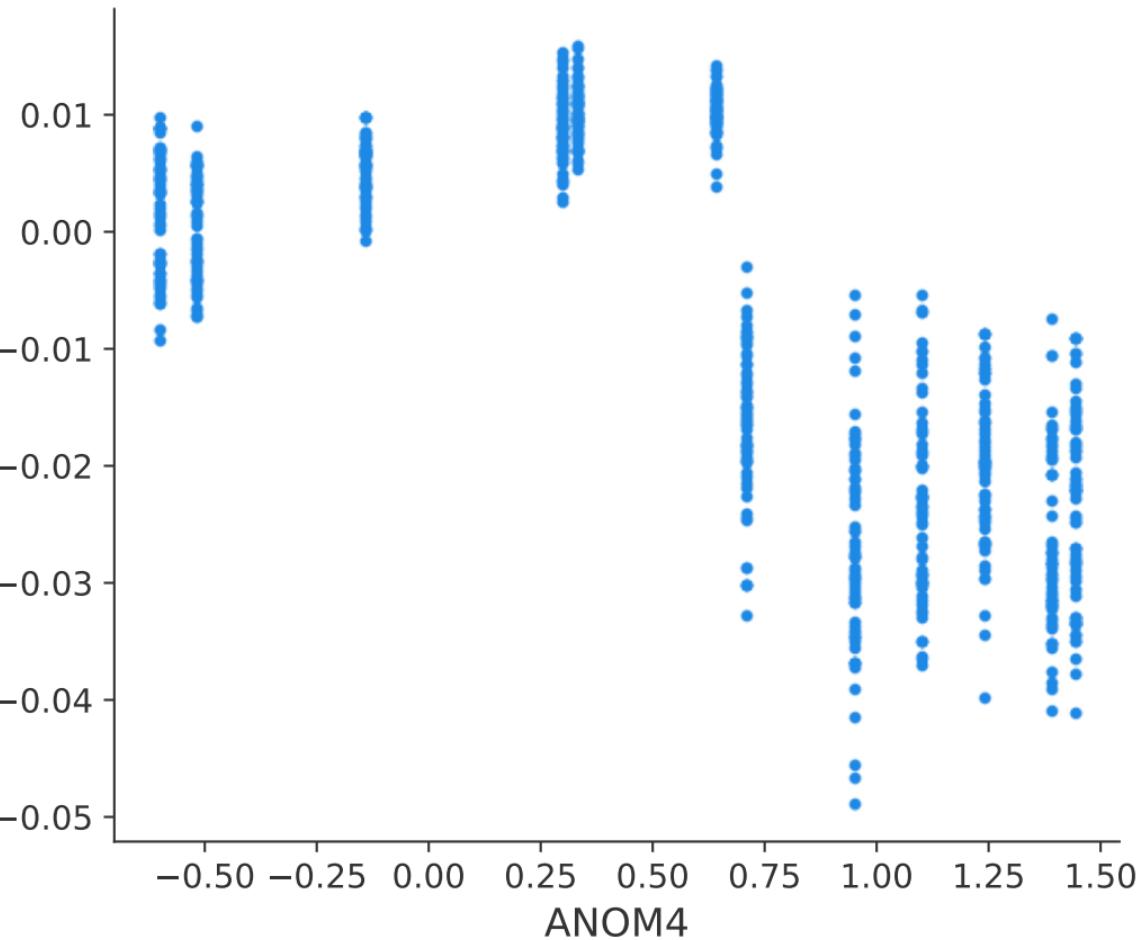
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-0.25

-0.50 -0.25 0.00 0.25 0.50 0.75 1.00 1.25 1.50

ANOM4

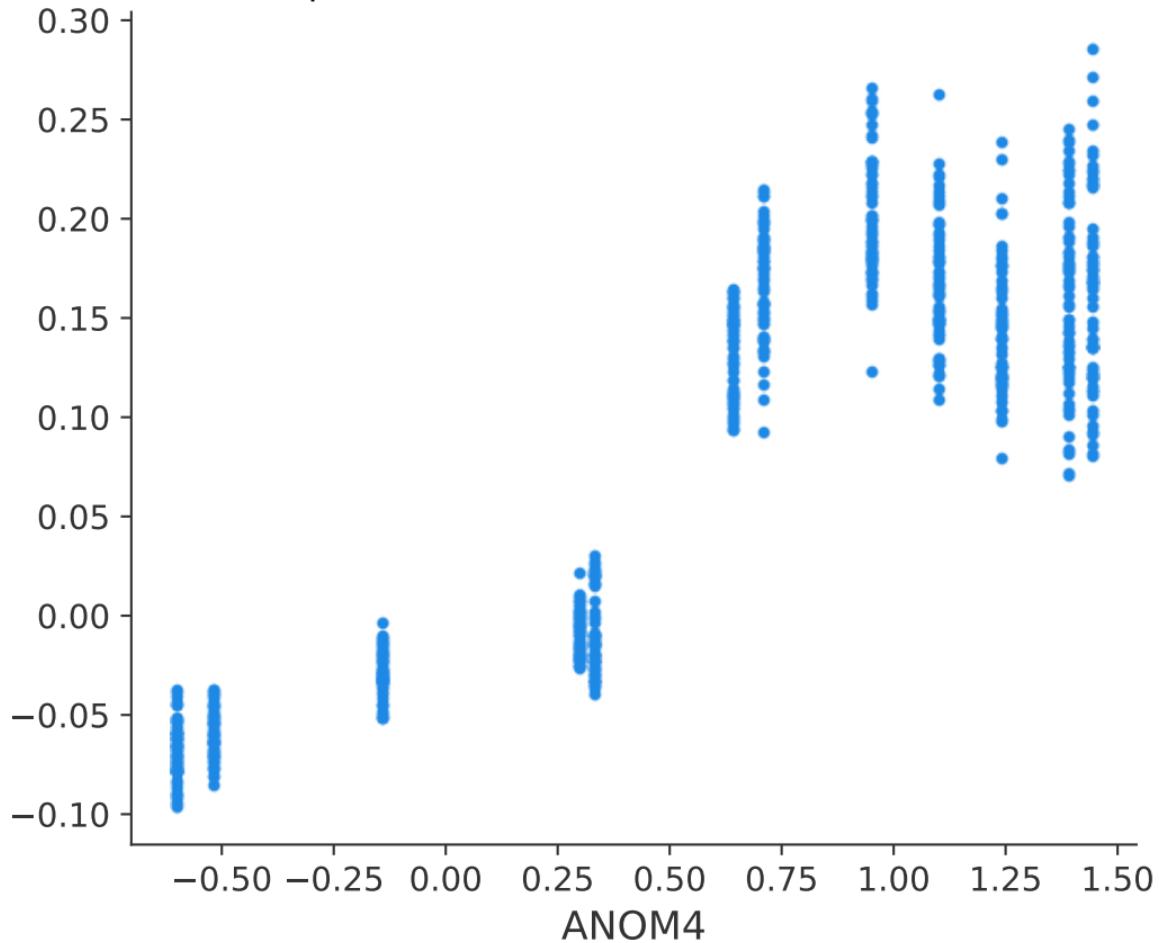
SHAP Dependence Plot for ANOM4, Class 1 - Sulawesi

SHAP value for
ANOM4

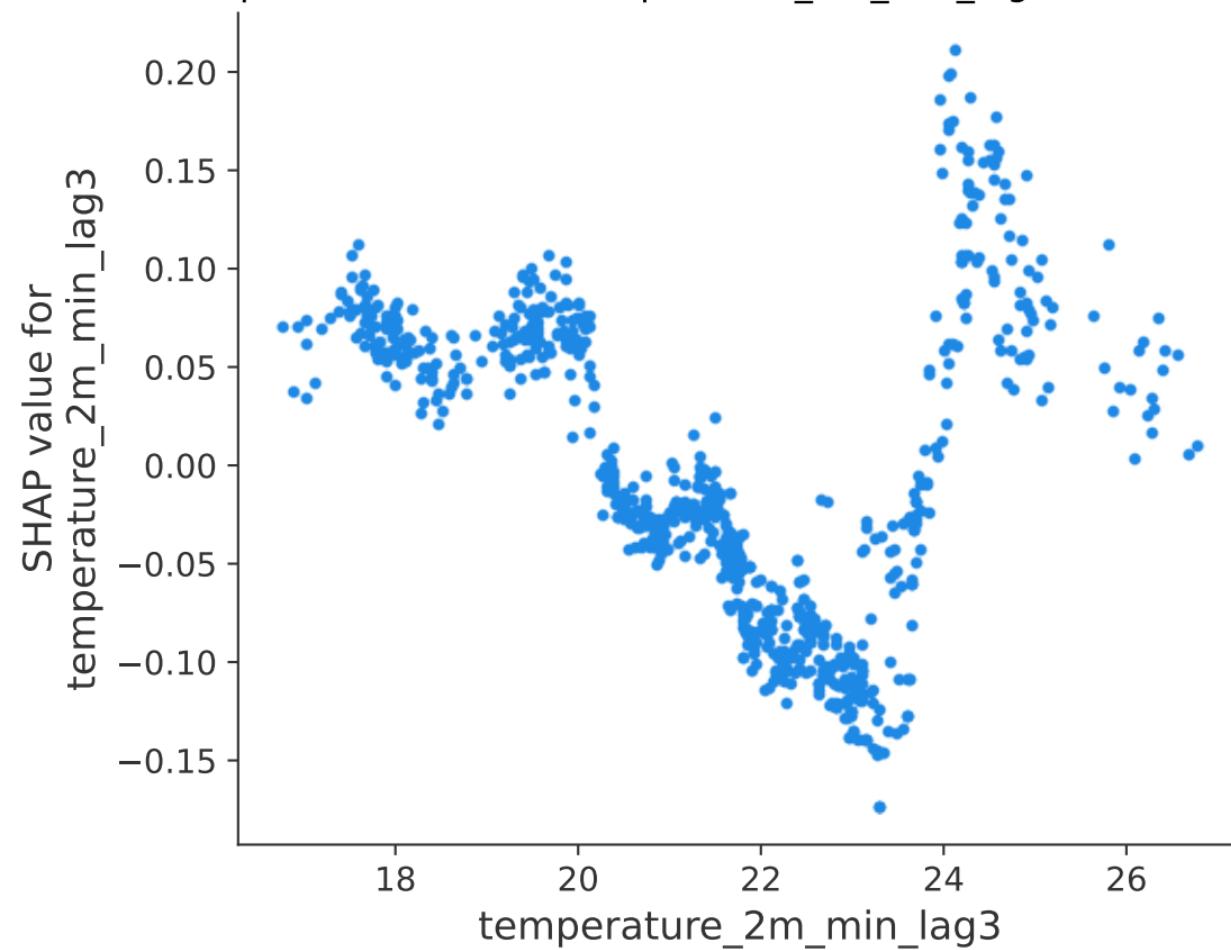


SHAP Dependence Plot for ANOM4, Class 2 - Sulawesi

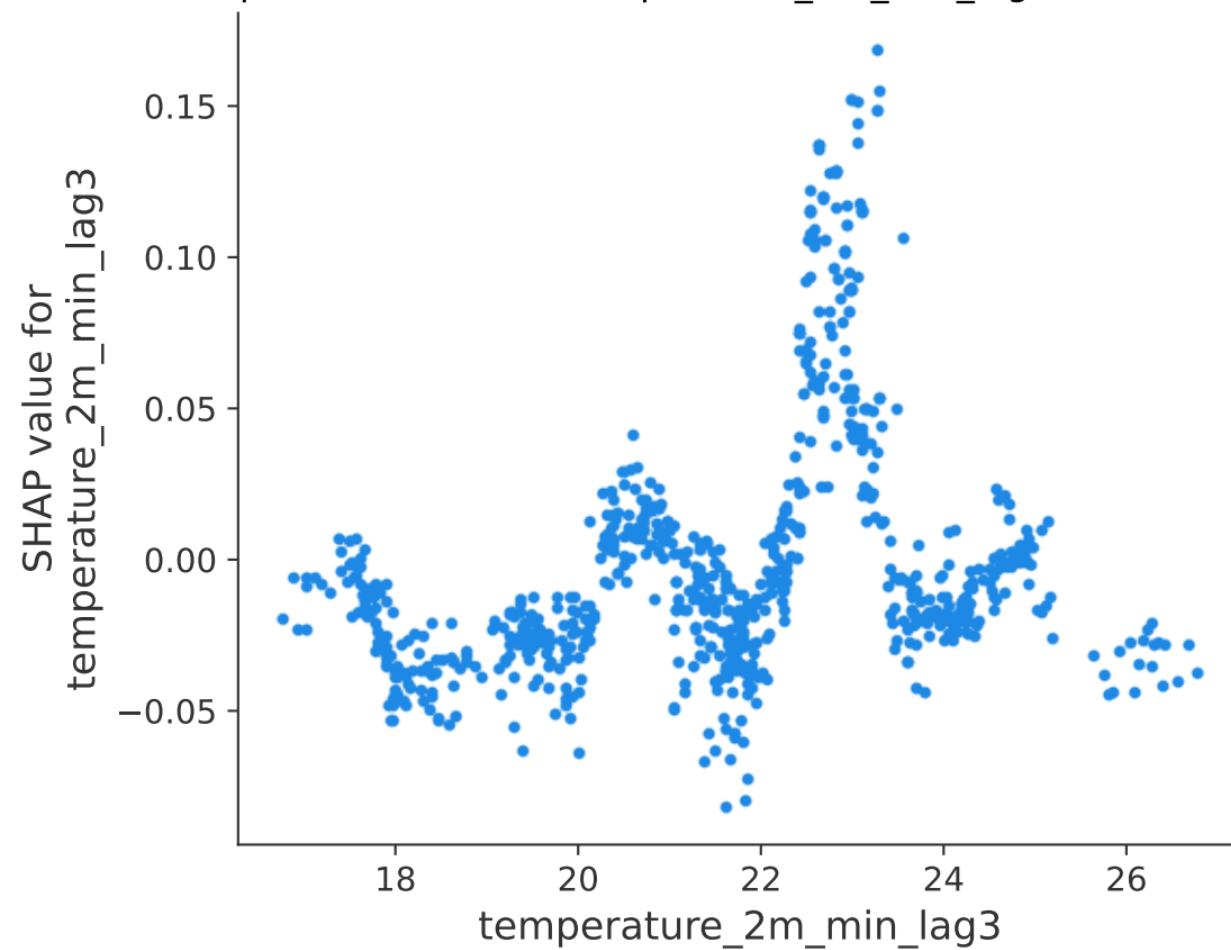
SHAP value for
ANOM4



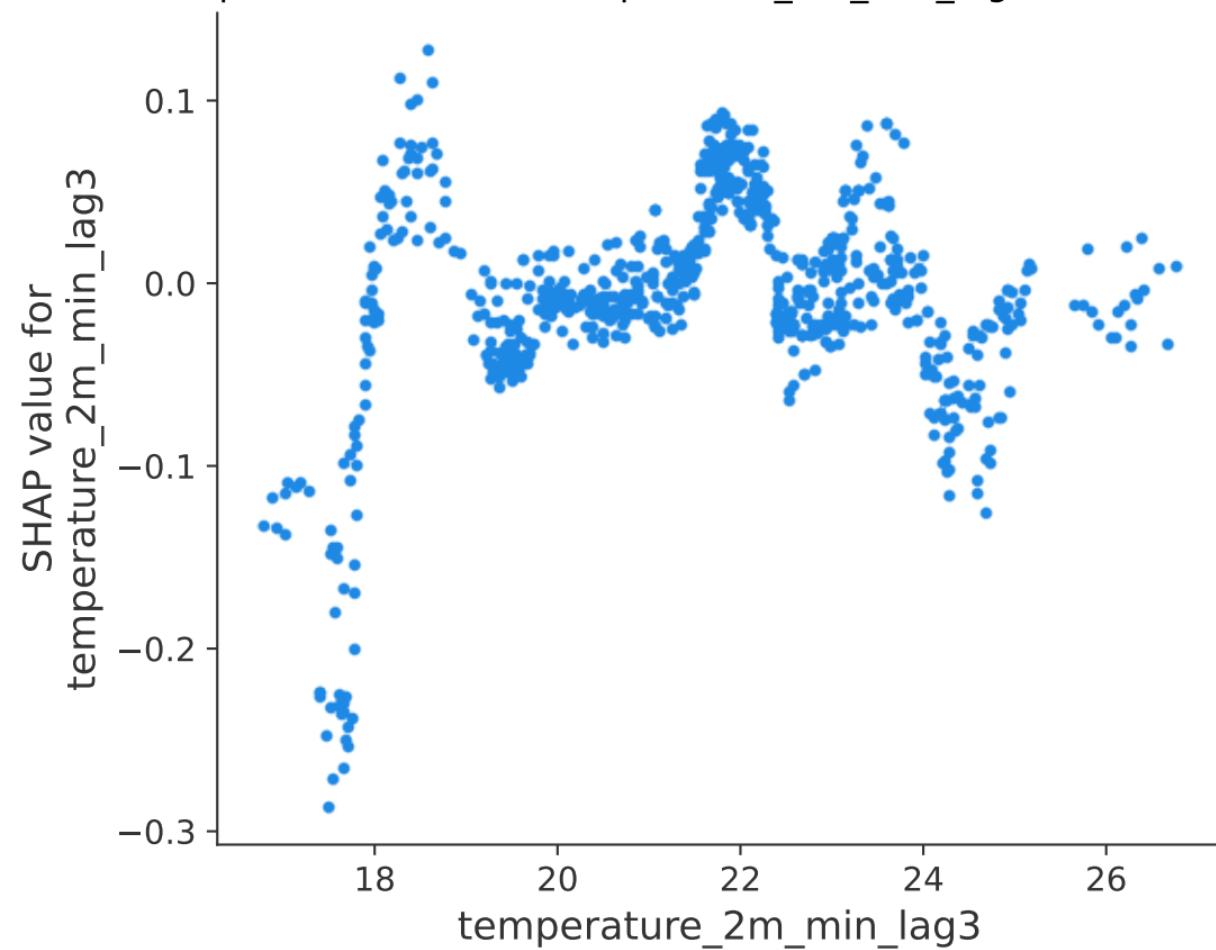
SHAP Dependence Plot for temperature_2m_min_lag3, Class 0 - Sulawesi



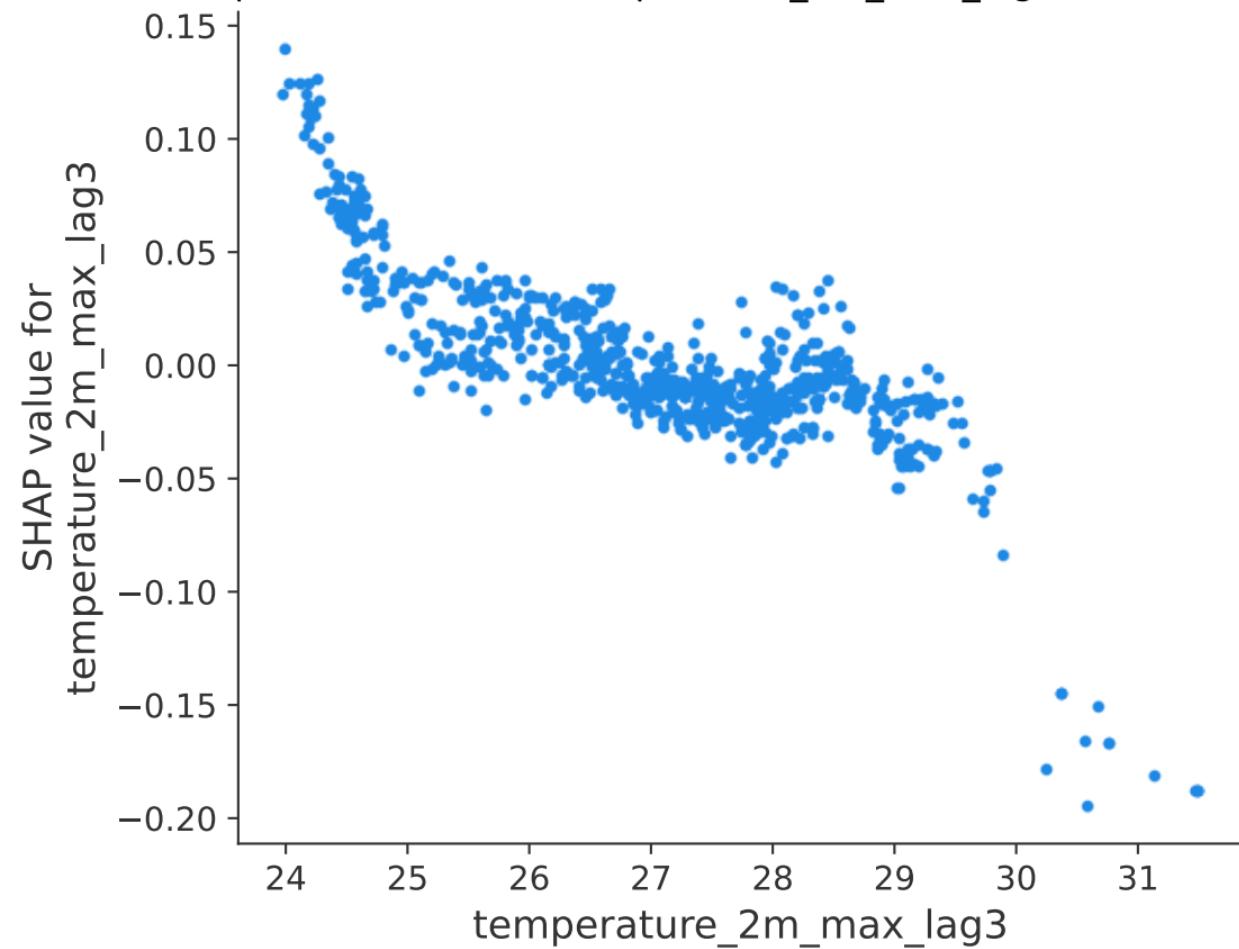
SHAP Dependence Plot for temperature_2m_min_lag3, Class 1 - Sulawesi



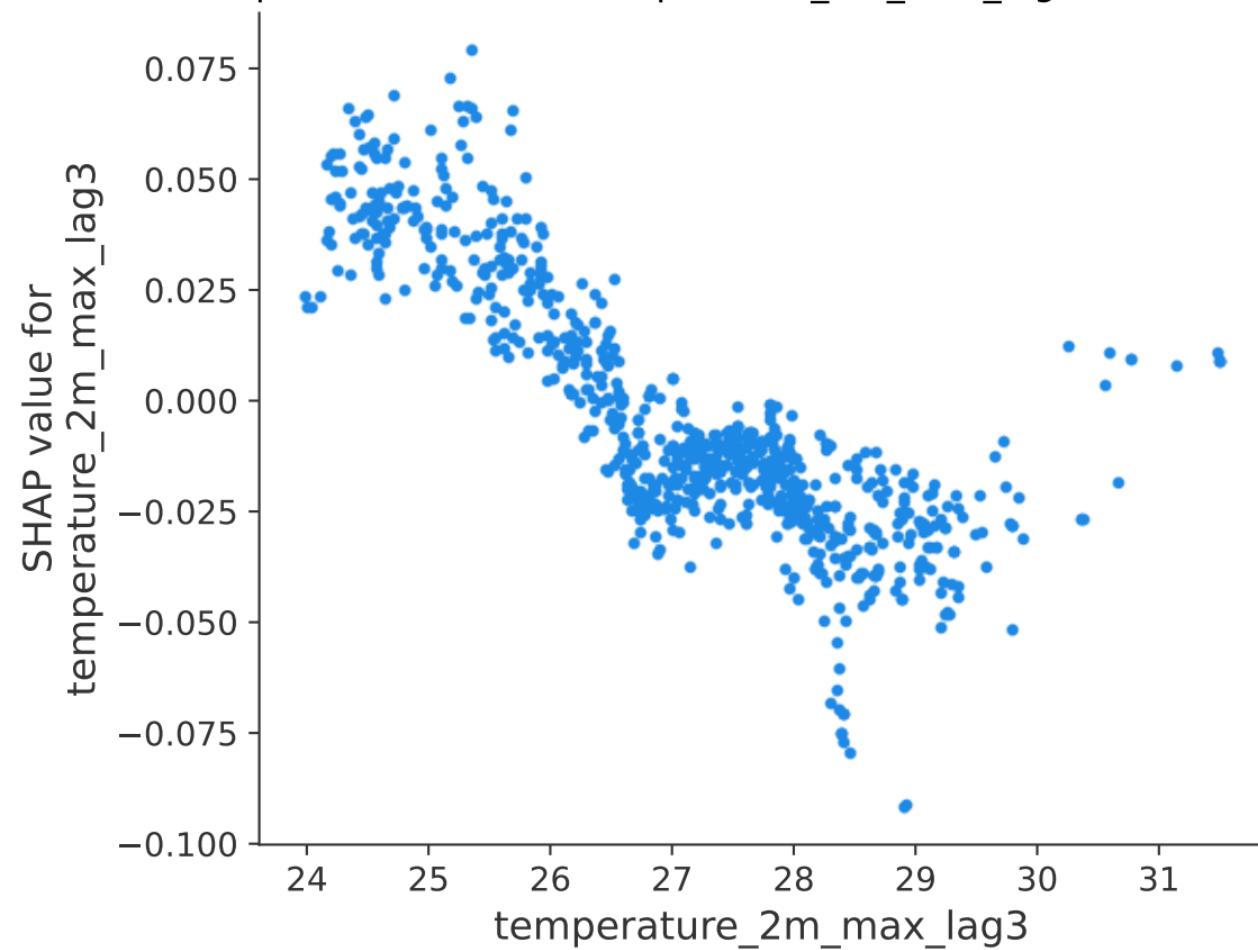
SHAP Dependence Plot for temperature_2m_min_lag3, Class 2 - Sulawesi



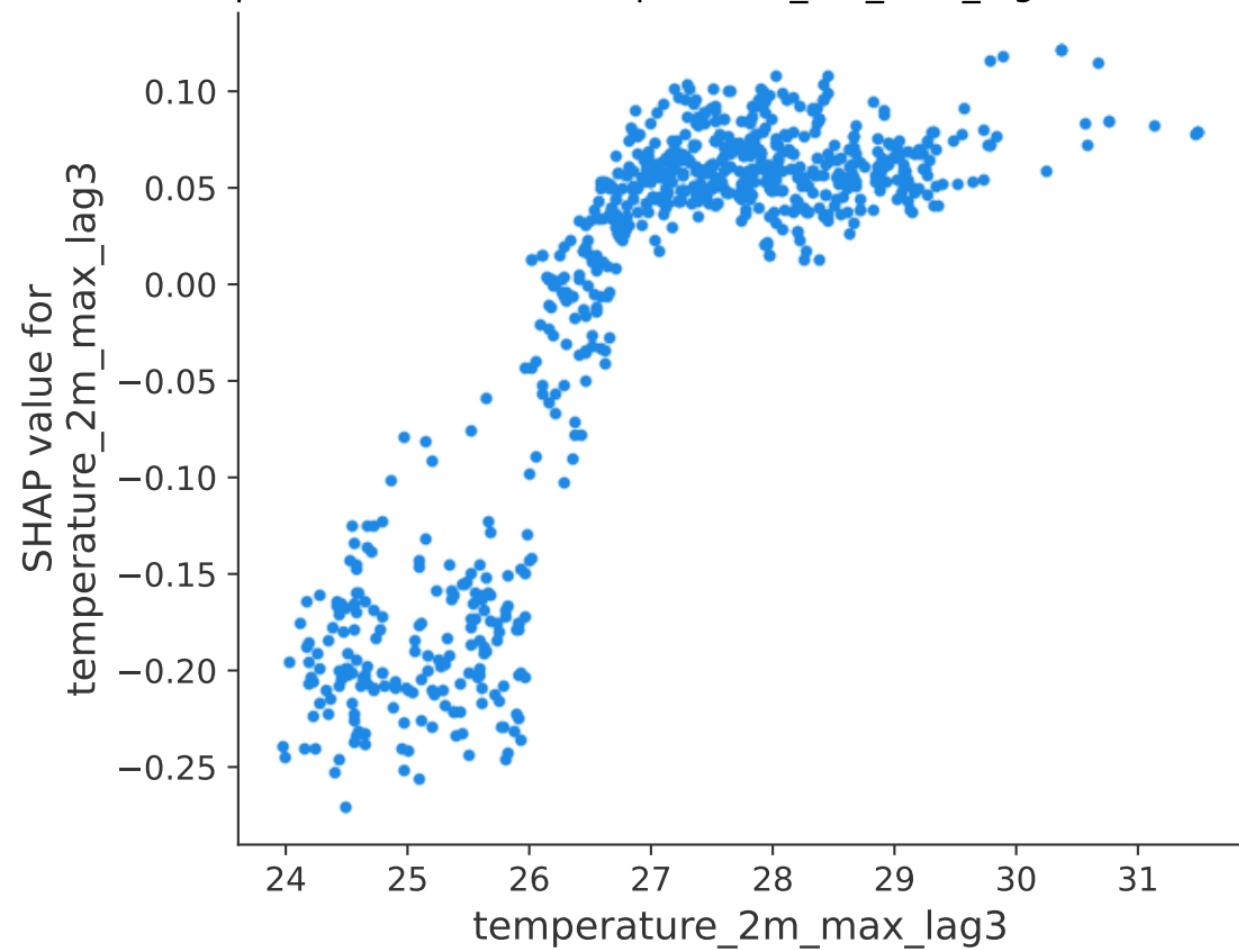
SHAP Dependence Plot for temperature_2m_max_lag3, Class 0 - Sulawesi



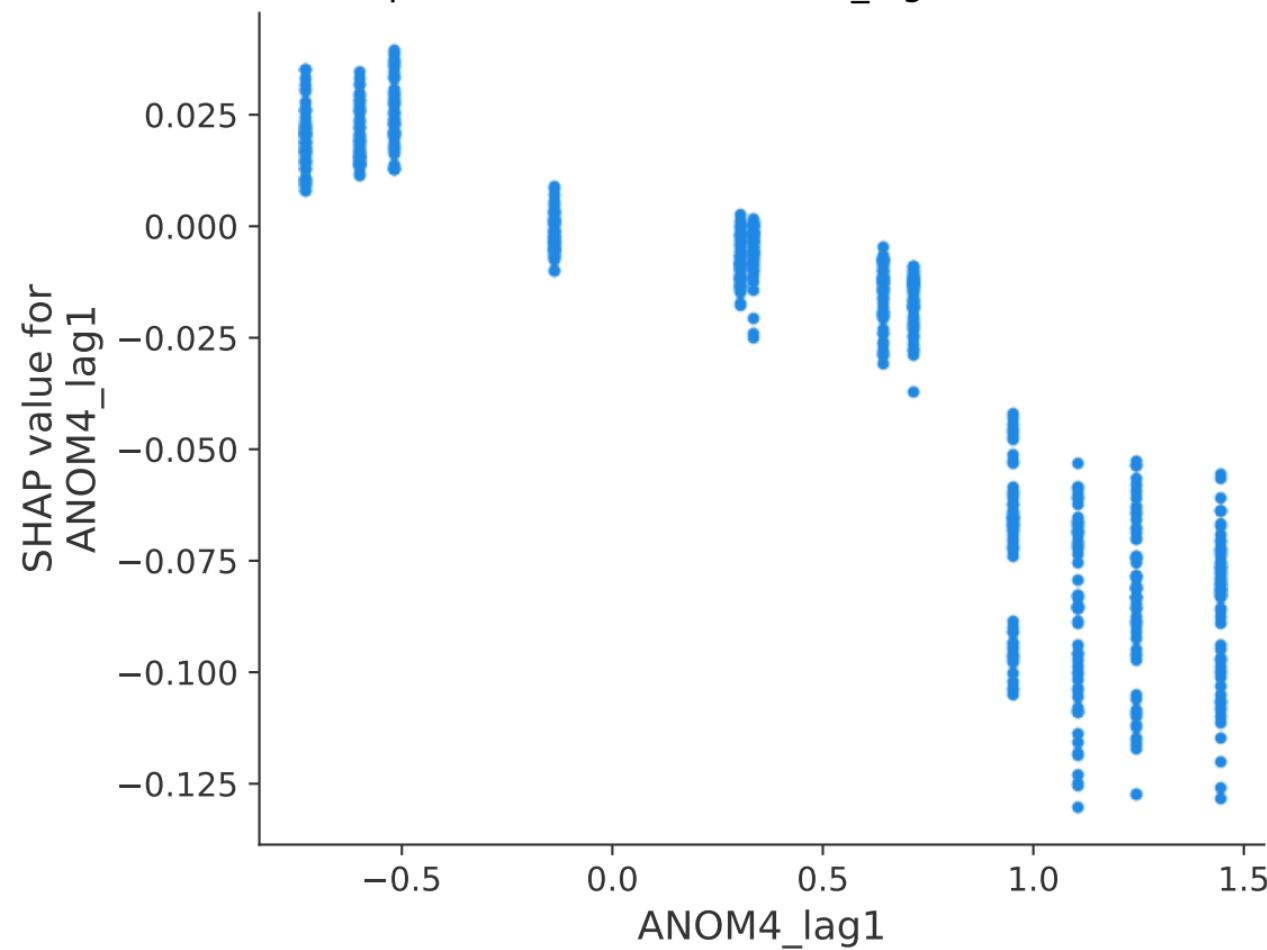
SHAP Dependence Plot for temperature_2m_max_lag3, Class 1 - Sulawesi



SHAP Dependence Plot for temperature_2m_max_lag3, Class 2 - Sulawesi

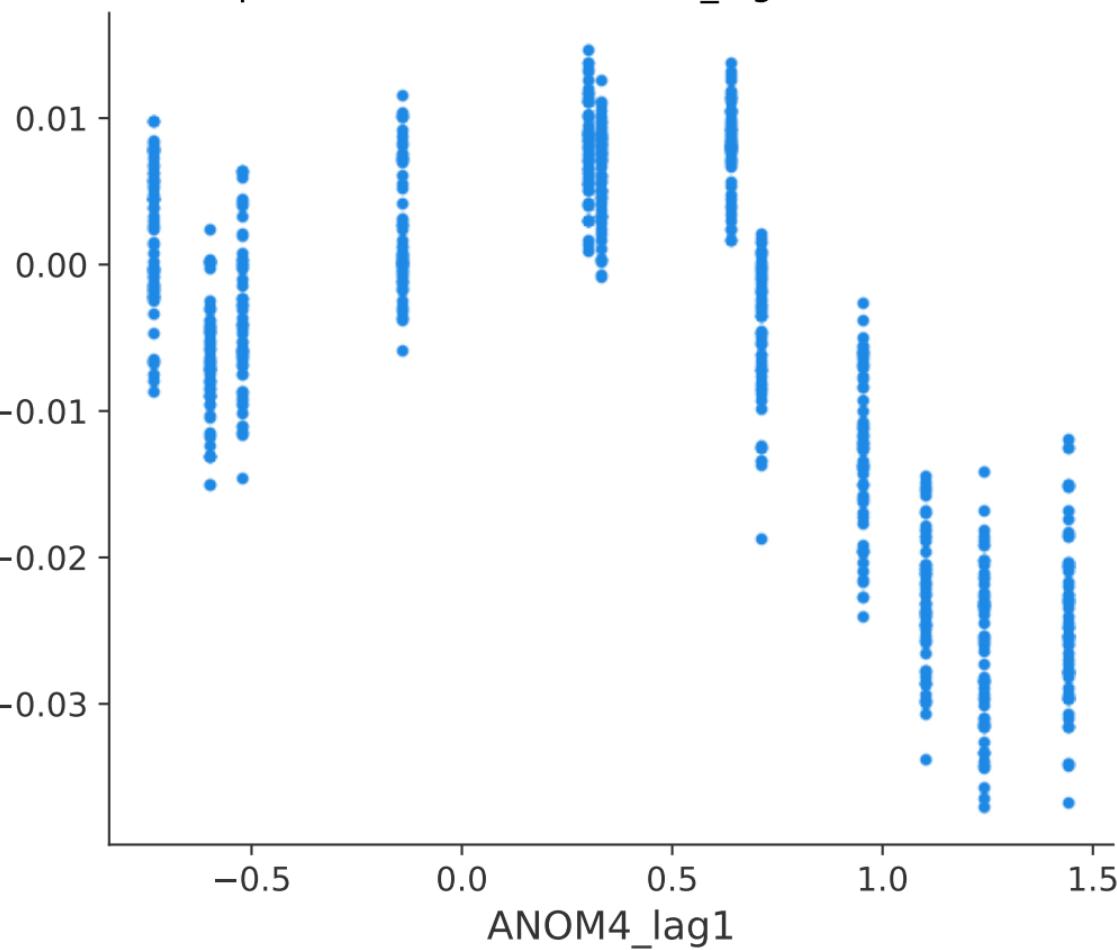


SHAP Dependence Plot for ANOM4_lag1, Class 0 - Sulawesi

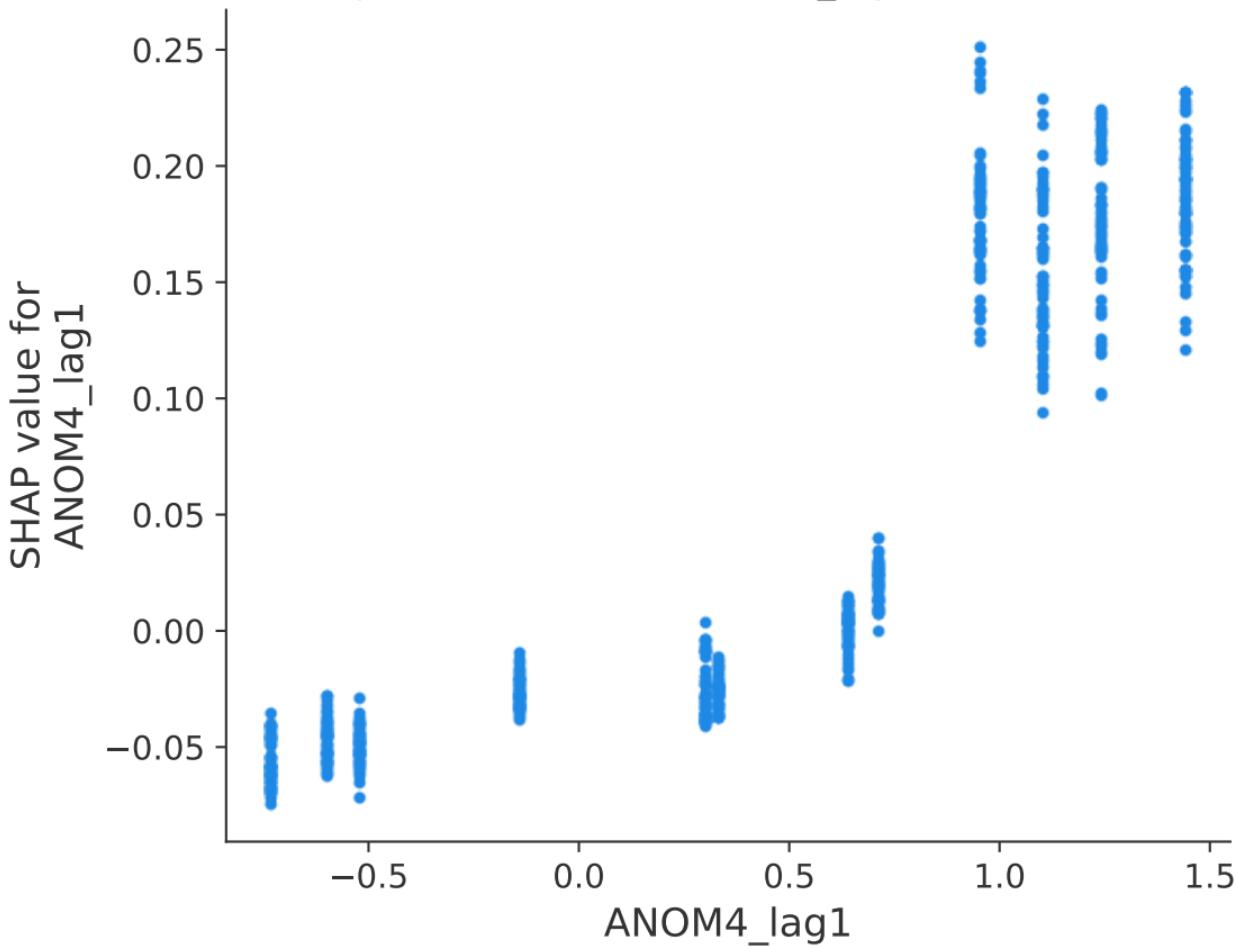


SHAP Dependence Plot for ANOM4_lag1, Class 1 - Sulawesi

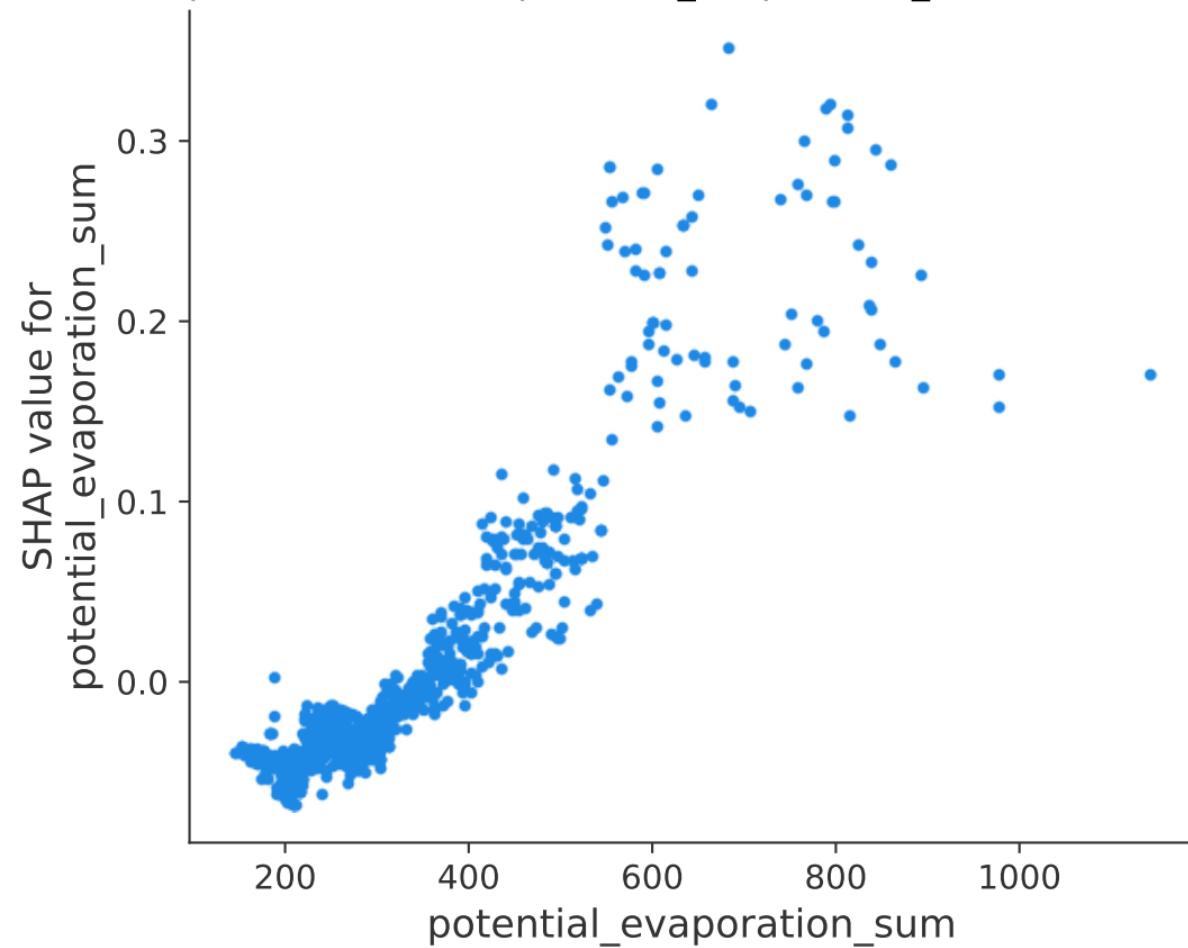
SHAP value for
ANOM4_lag1



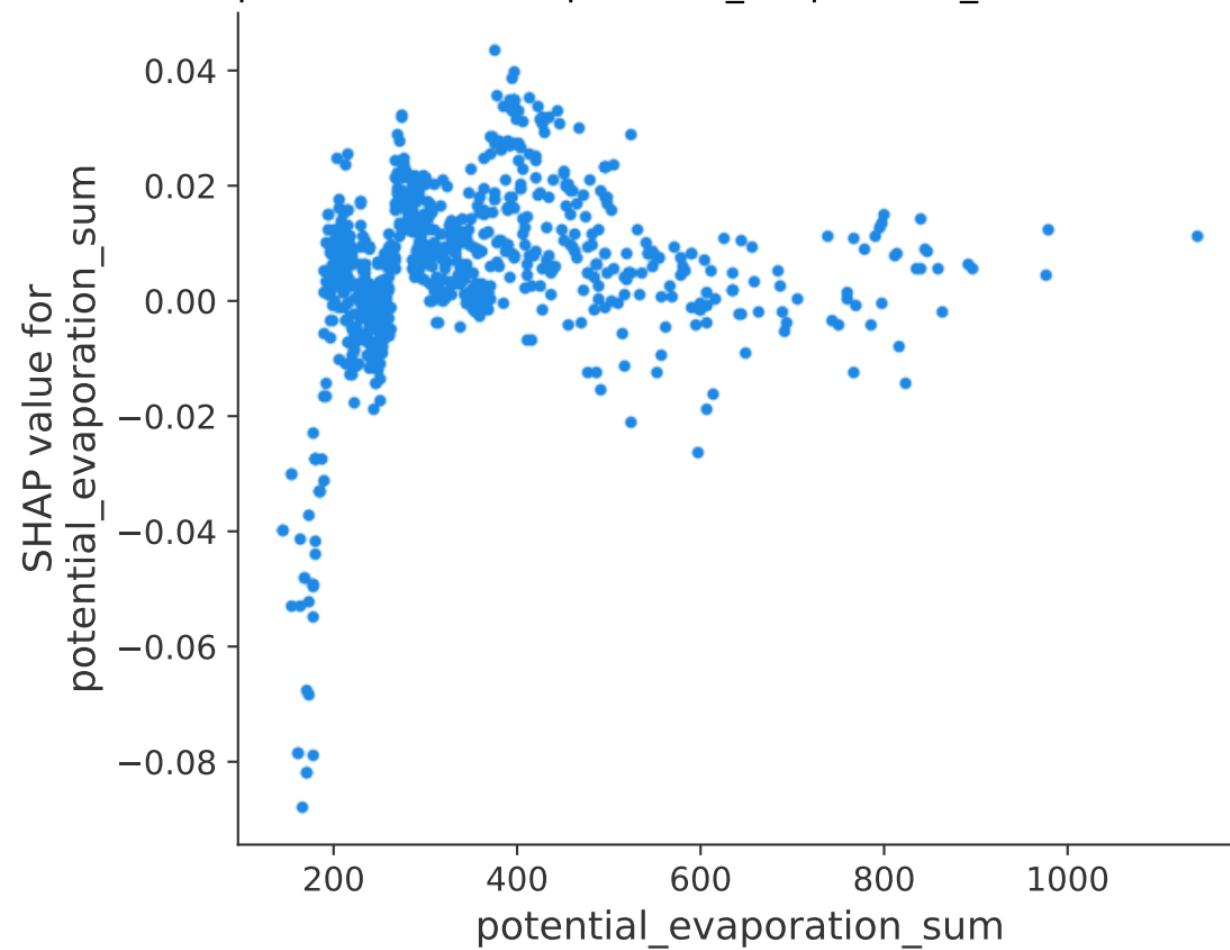
SHAP Dependence Plot for ANOM4_lag1, Class 2 - Sulawesi



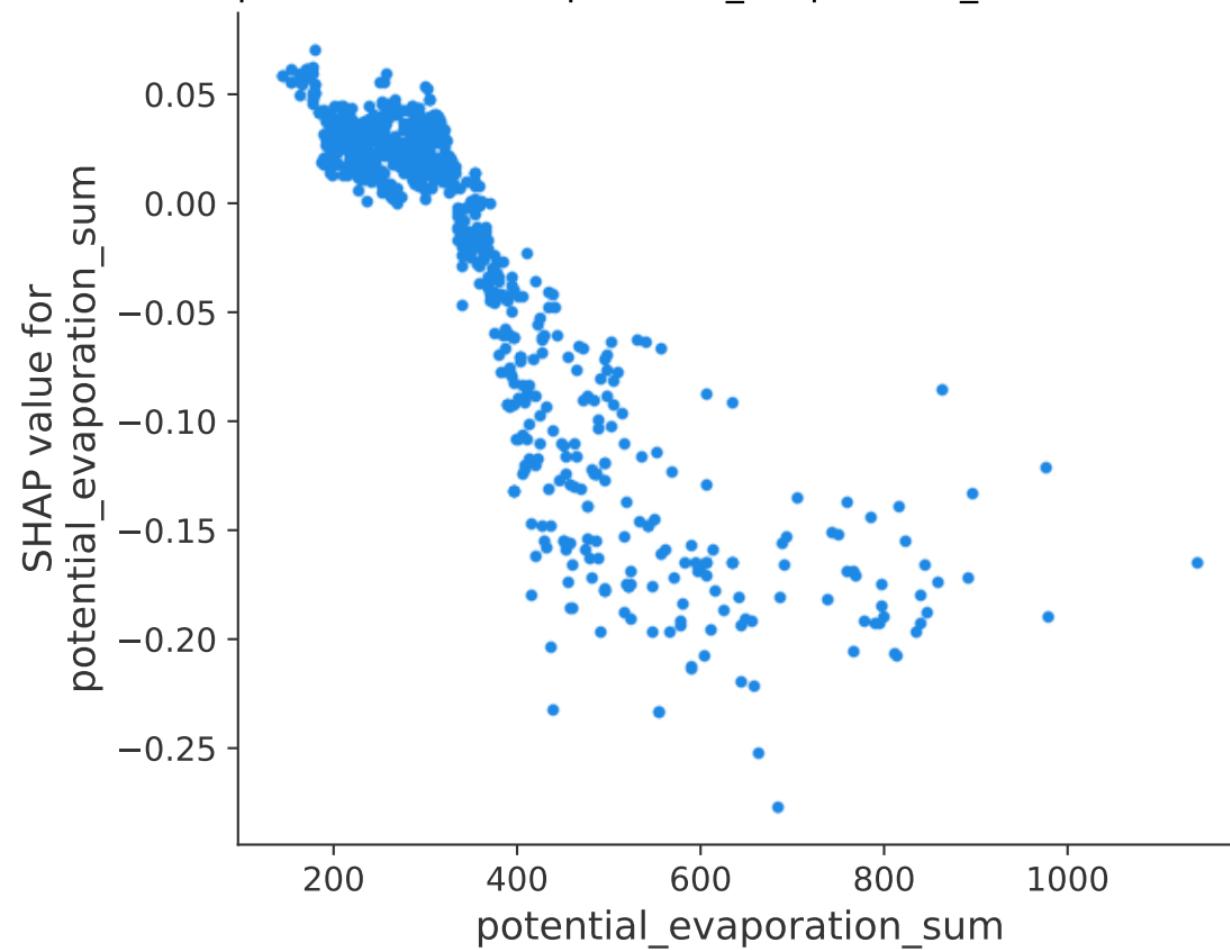
SHAP Dependence Plot for potential_evaporation_sum, Class 0 - Sulawesi



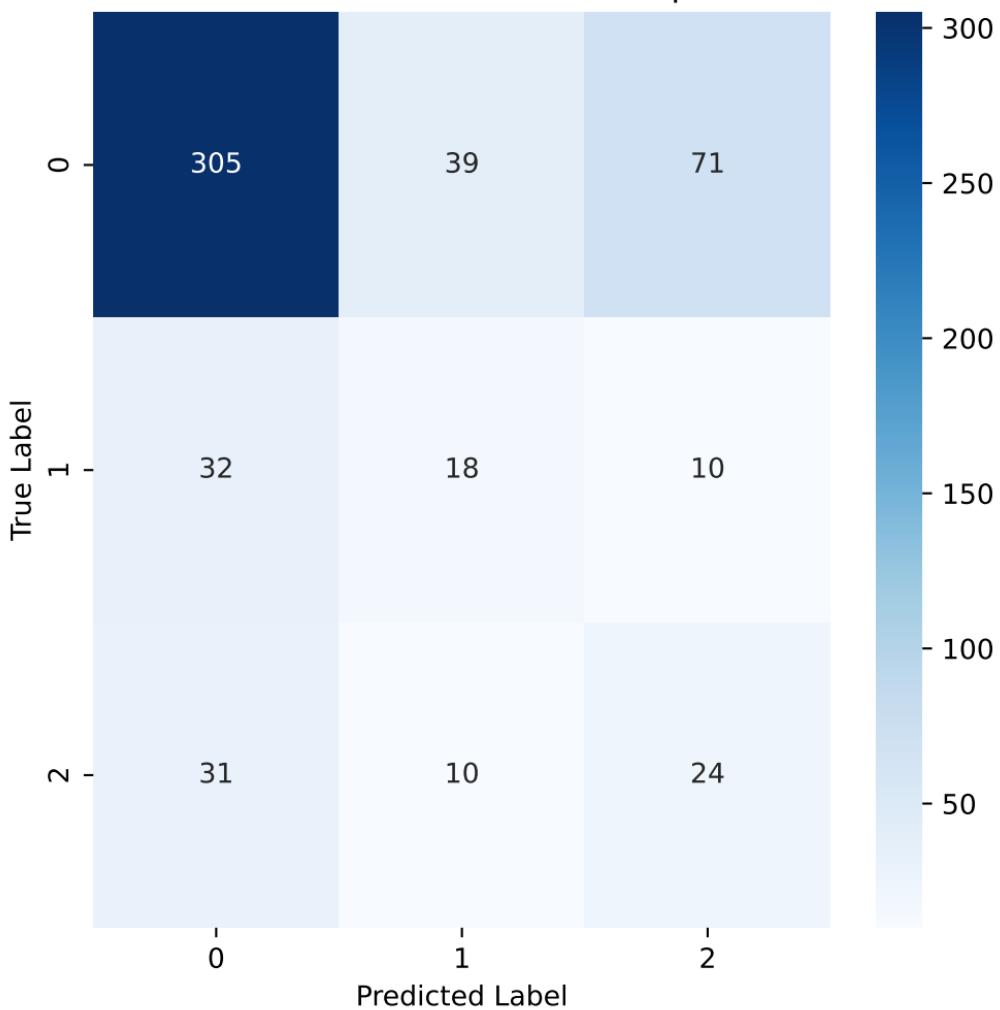
SHAP Dependence Plot for potential_evaporation_sum, Class 1 - Sulawesi



SHAP Dependence Plot for potential_evaporation_sum, Class 2 - Sulawesi



Confusion Matrix - Maluku-Papua



SHAP Beeswarm Plot for Class 0 - Maluku-Papua

High

temperature_2m_min_lag3

total_evaporation_sum

temperature_2m_min_lag1

aridity_index

temperature_2m_min_lag2

temperature_2m_max

precipitation_ANOM_lag3

precipitation_lag3

ANOM3.4_lag3

temperature_2m_min_ANOM_lag3

ANOM1+2_lag3

evaporative_stress_index

temperature_2m_max_lag3

temperature_2m_lag1

DMI_lag3

temperature_2m_min

ANOM4_lag3

temperature_2m_lag2

temperature_2m_min_ANOM_lag2

total_evaporation_sum_lag1

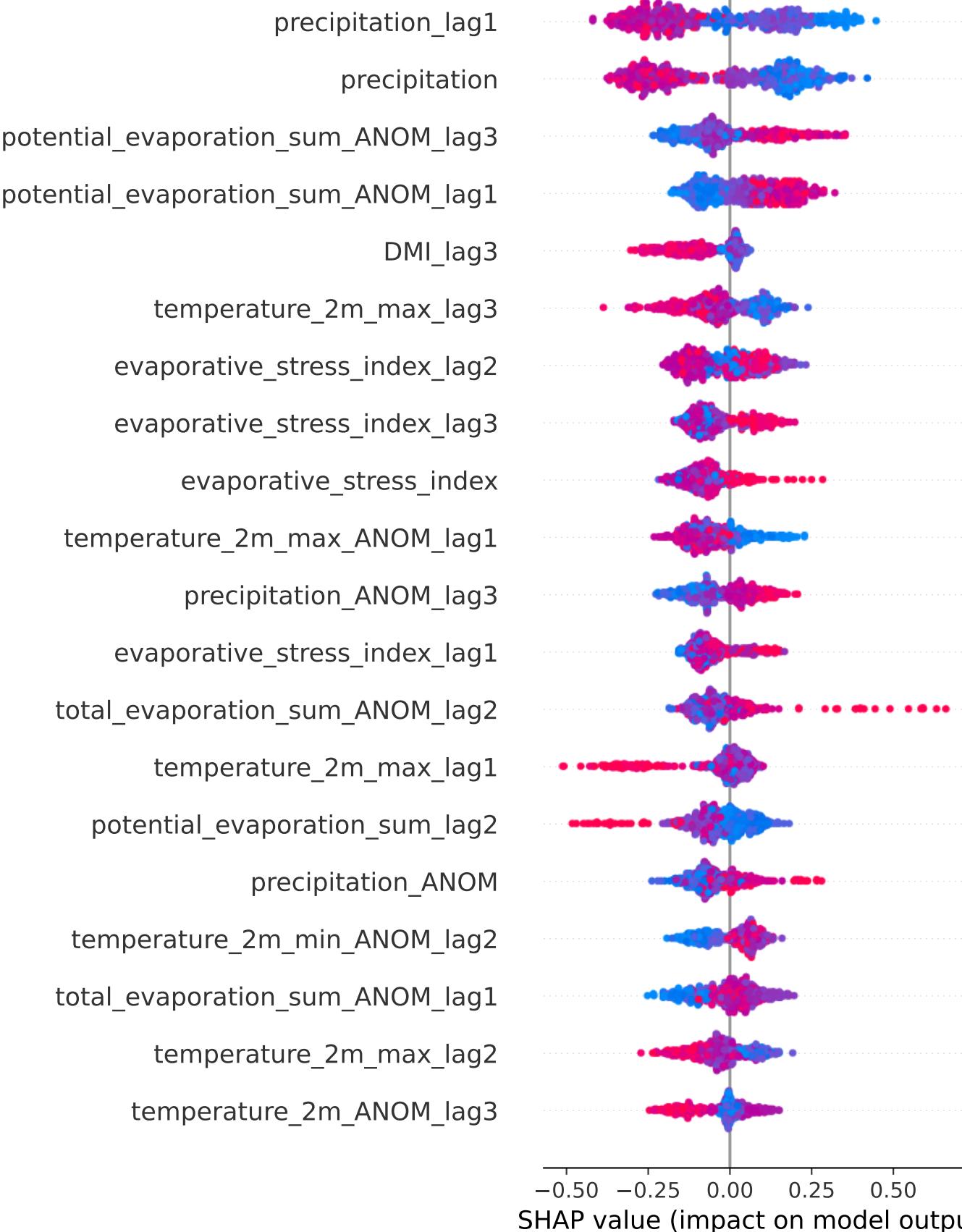
Feature value

Low

SHAP value (impact on model output)

SHAP Beeswarm Plot for Class 1 - Maluku-Papua

High



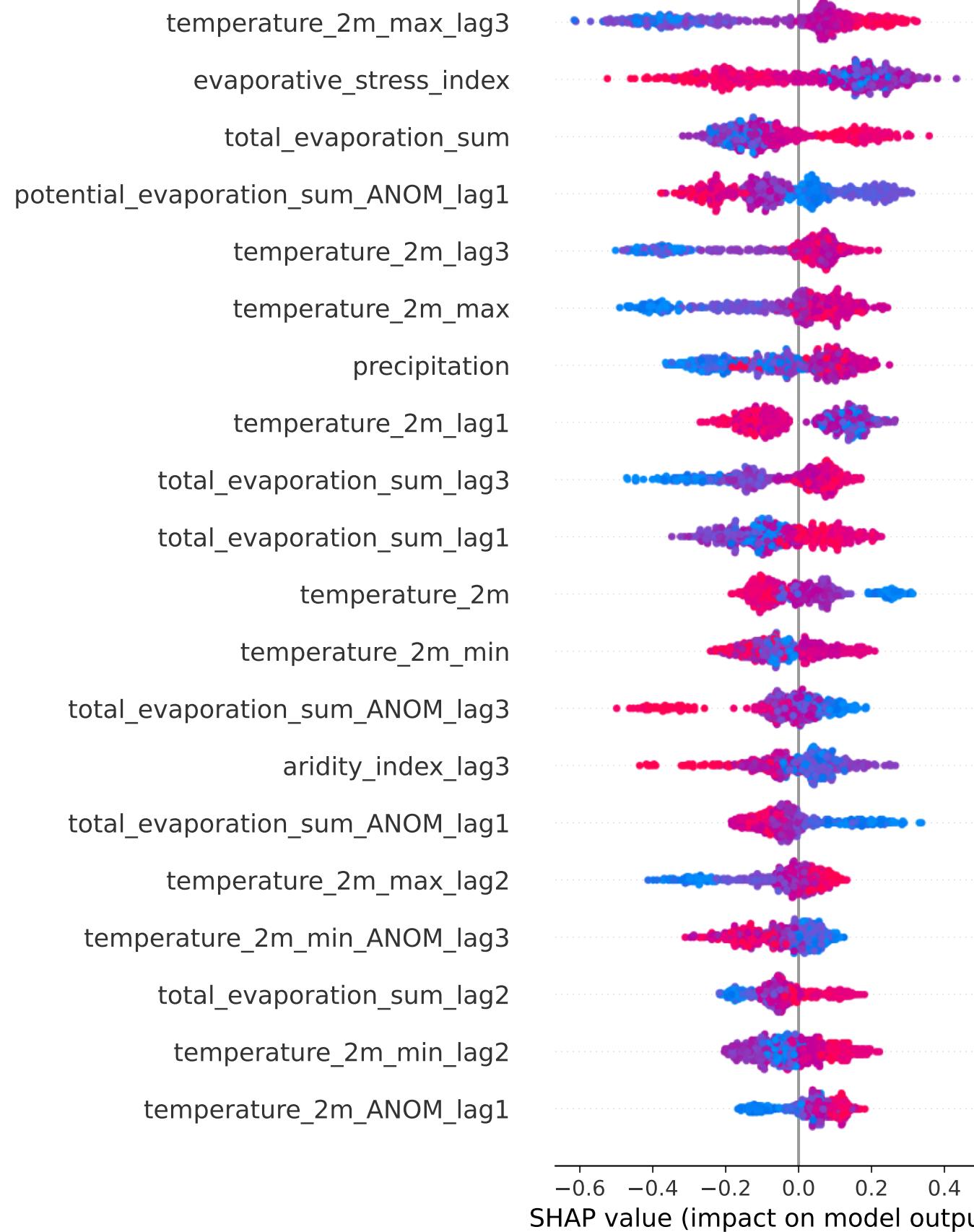
Feature value

Low

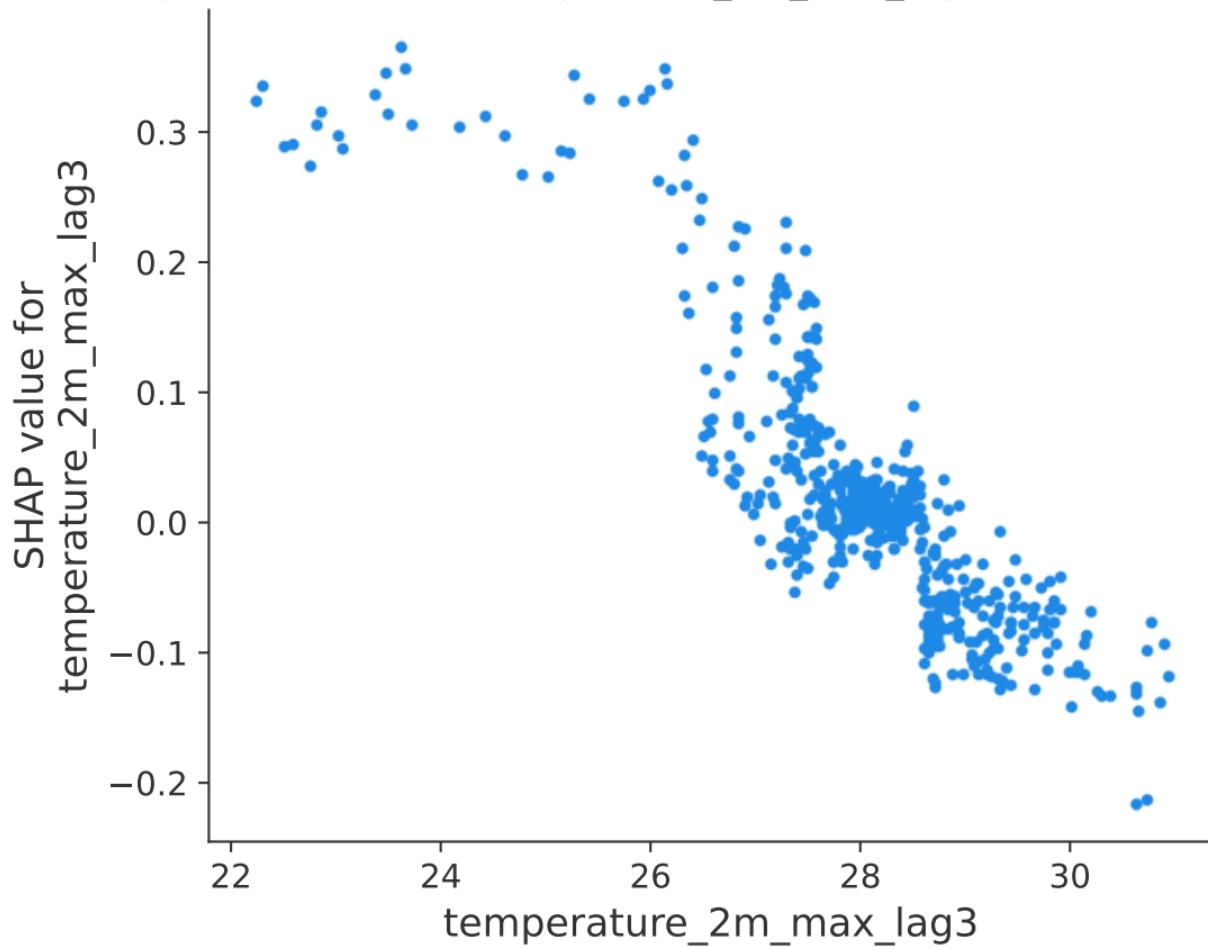
SHAP value (impact on model output)

SHAP Beeswarm Plot for Class 2 - Maluku-Papua

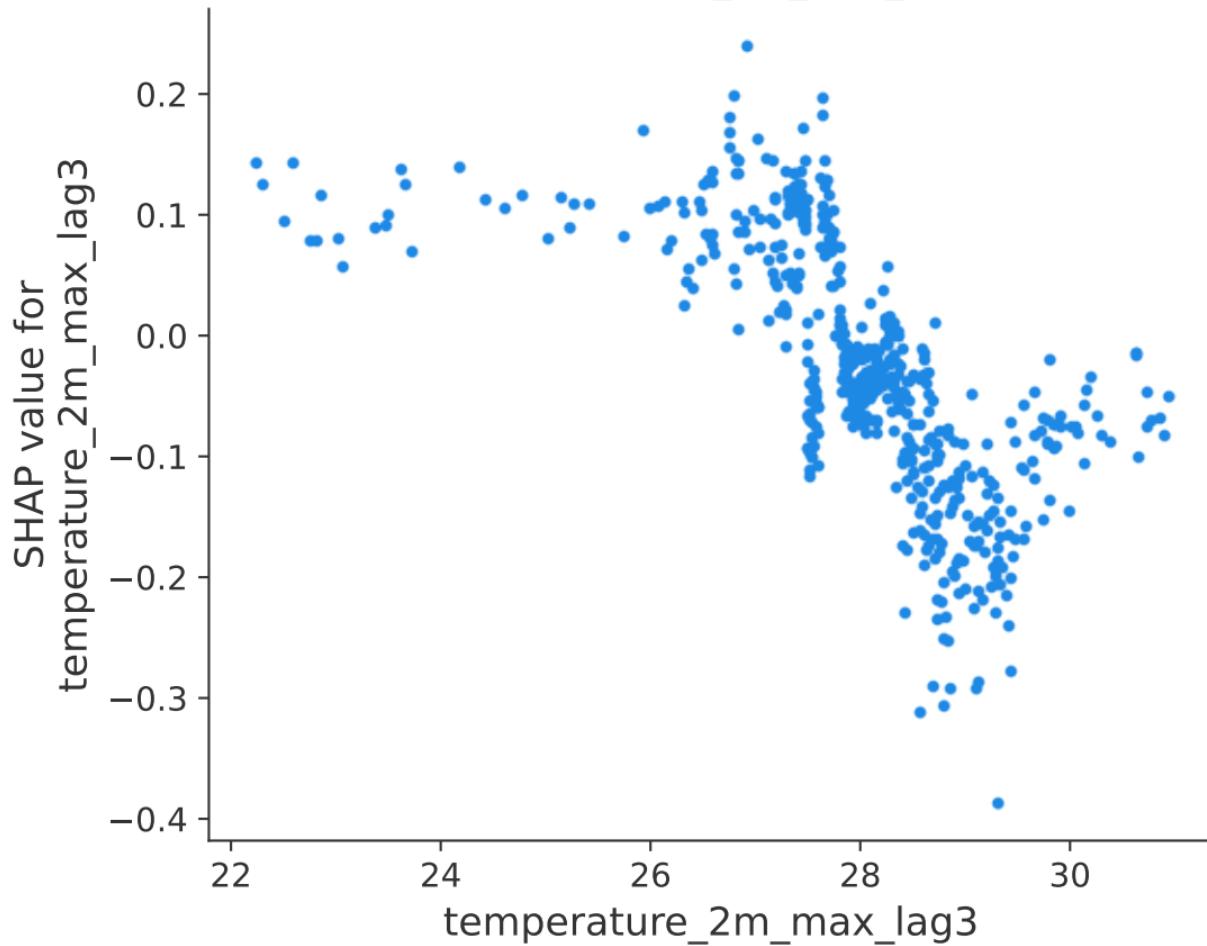
High



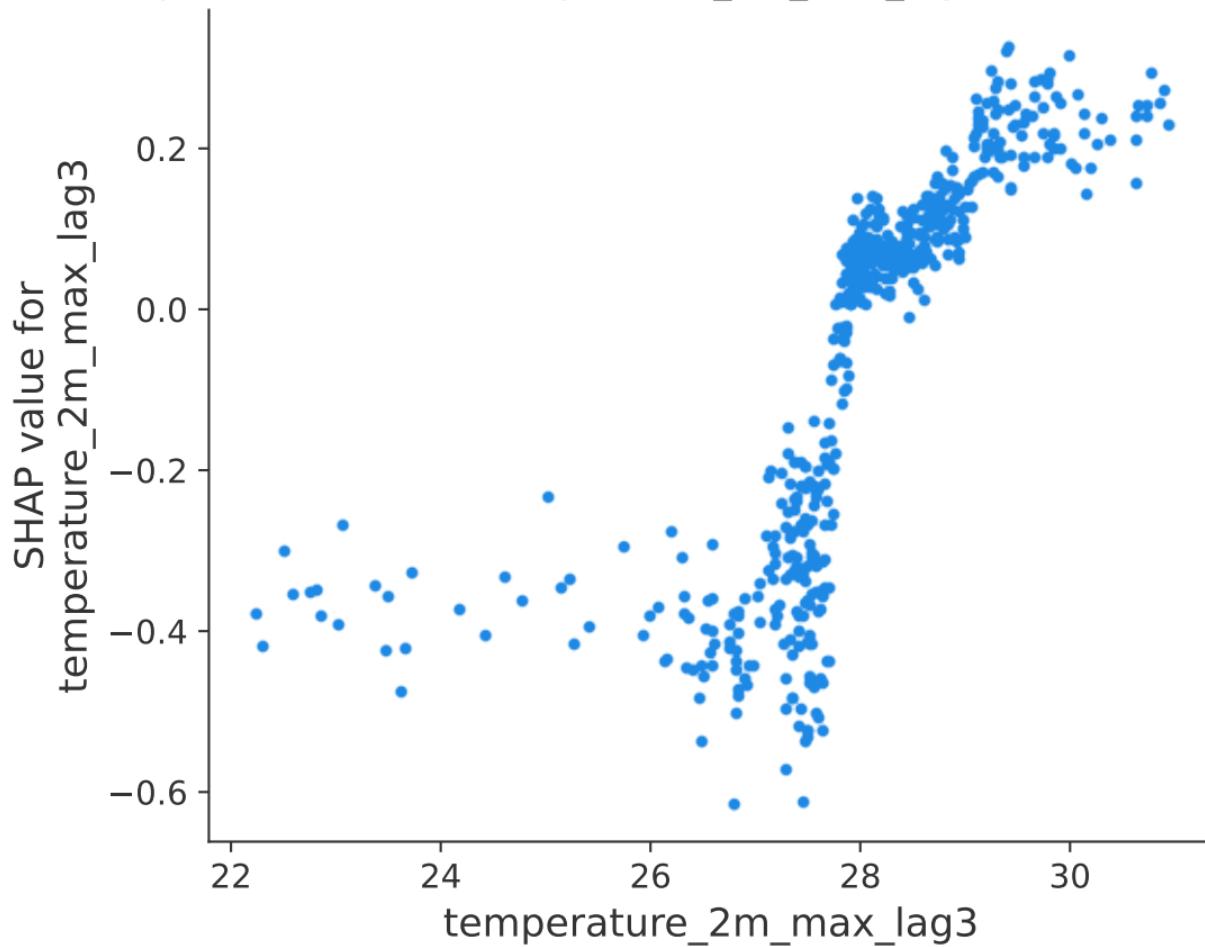
SHAP Dependence Plot for temperature_2m_max_lag3, Class 0 - Maluku-Papua



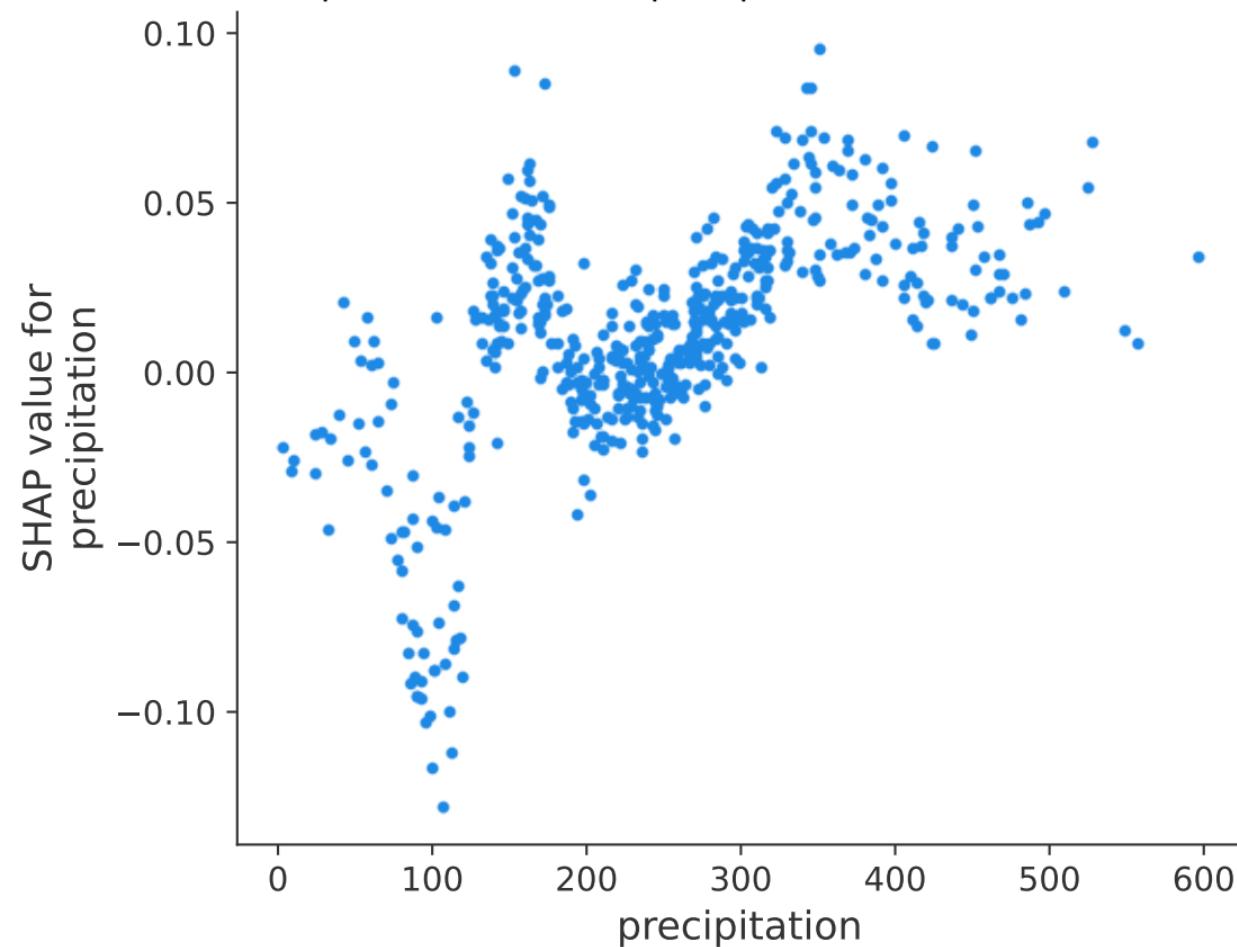
SHAP Dependence Plot for temperature_2m_max_lag3, Class 1 - Maluku-Papua



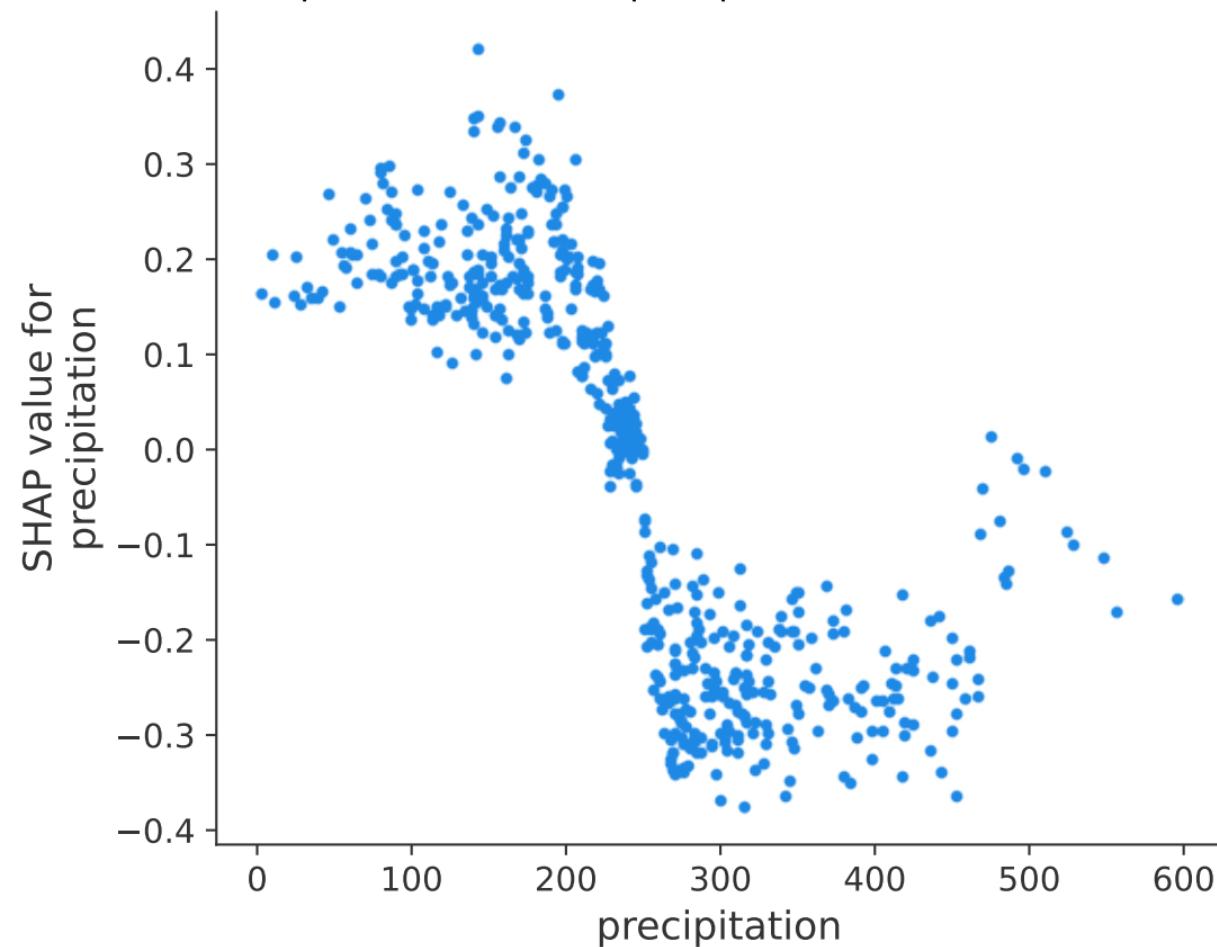
SHAP Dependence Plot for temperature_2m_max_lag3, Class 2 - Maluku-Papua



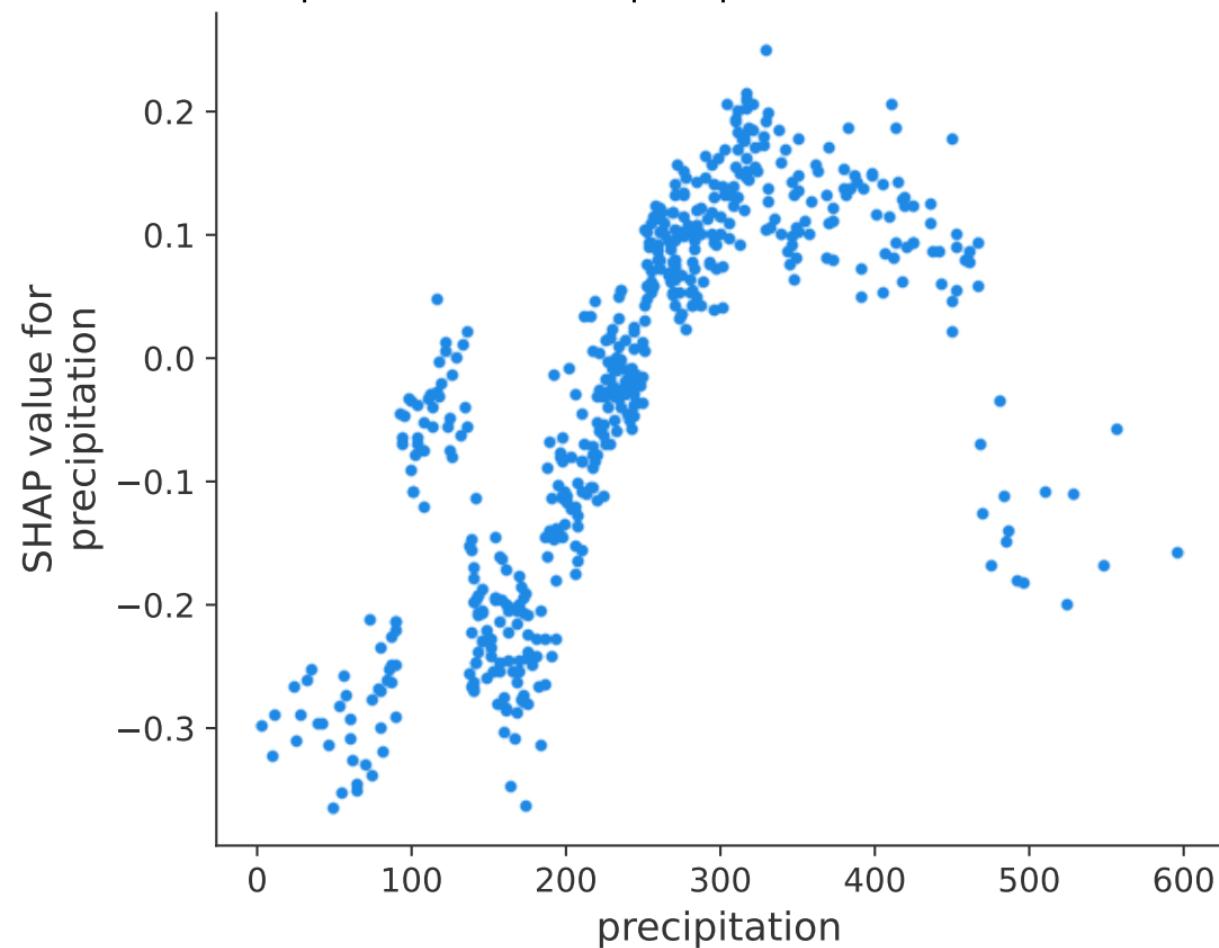
SHAP Dependence Plot for precipitation, Class 0 - Maluku-Papua



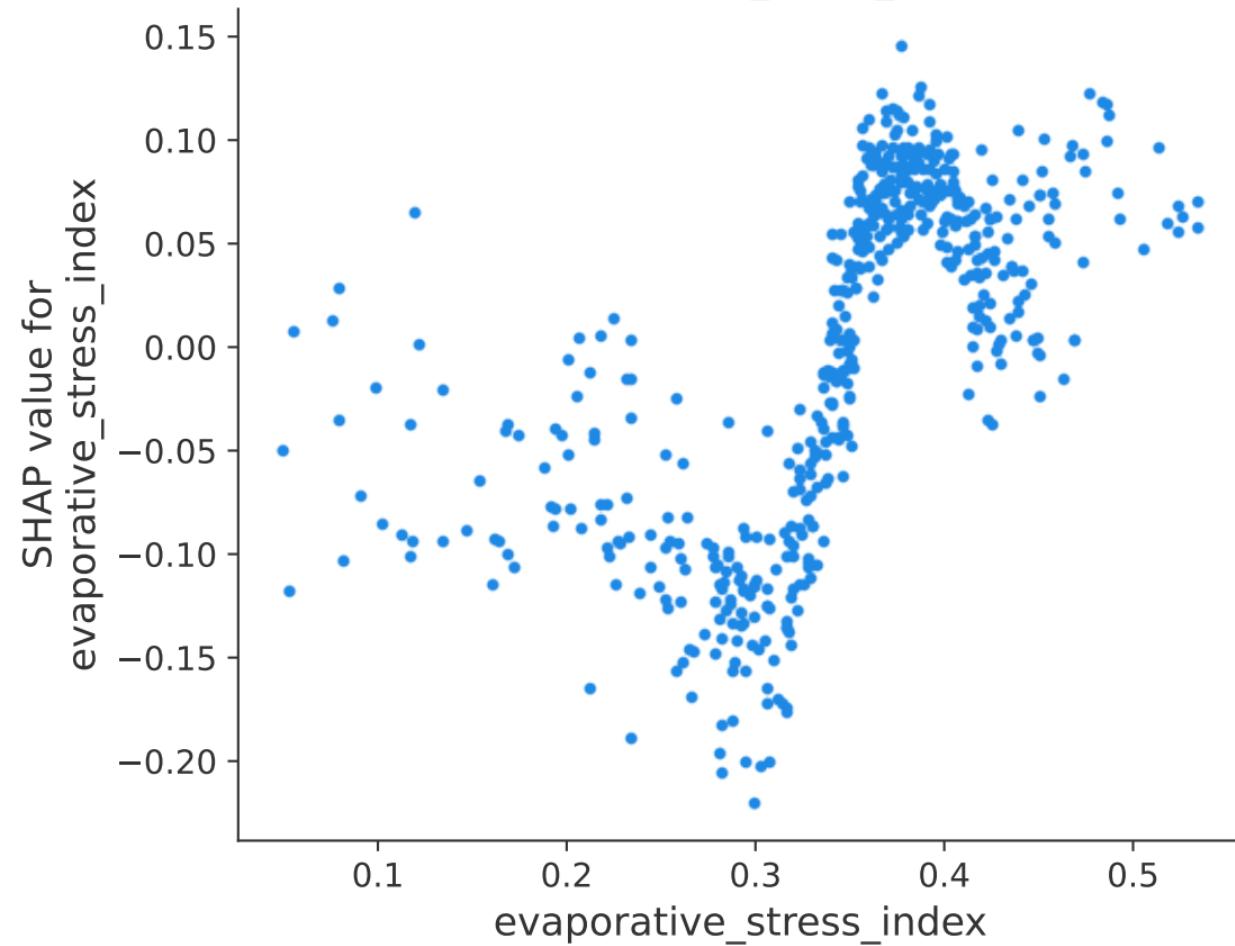
SHAP Dependence Plot for precipitation, Class 1 - Maluku-Papua



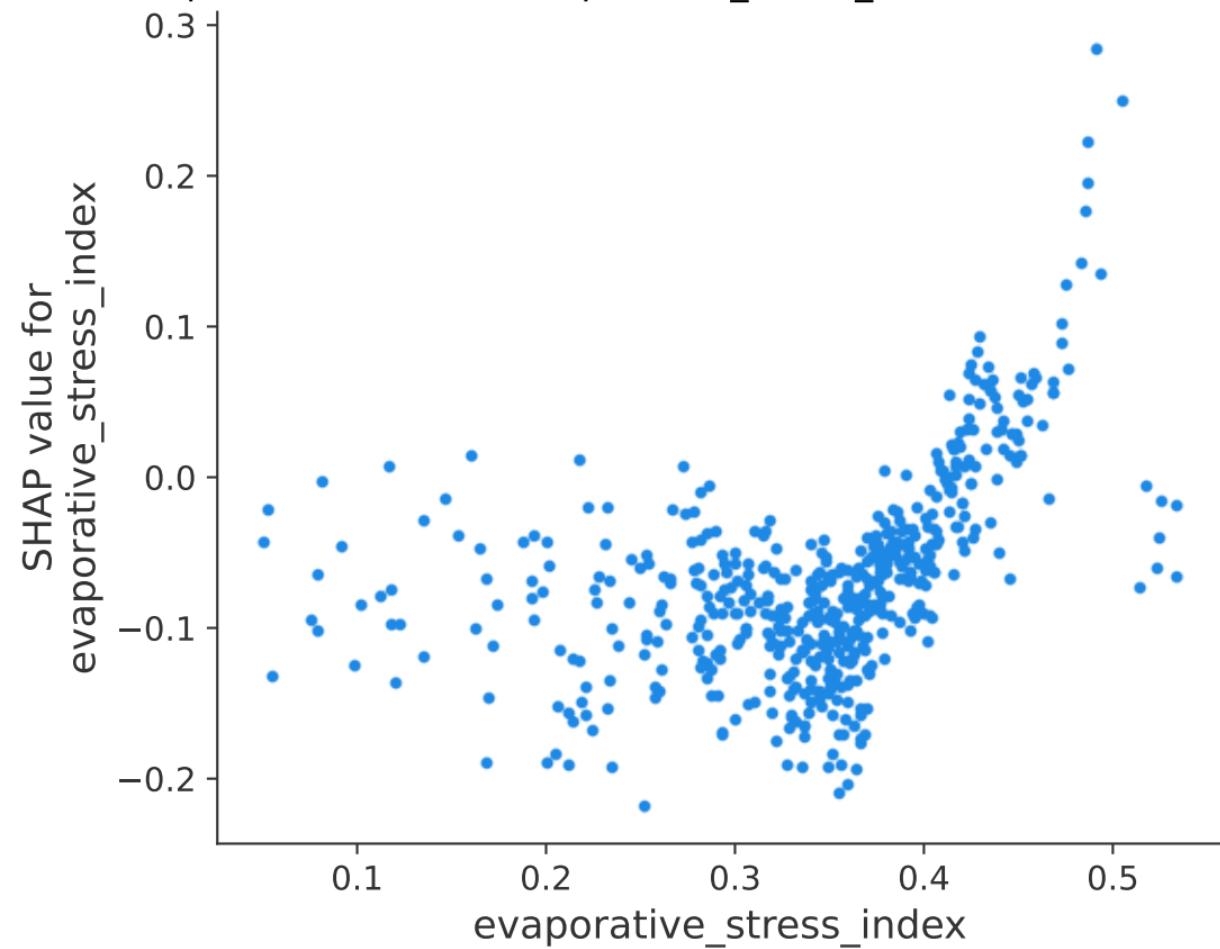
SHAP Dependence Plot for precipitation, Class 2 - Maluku-Papua



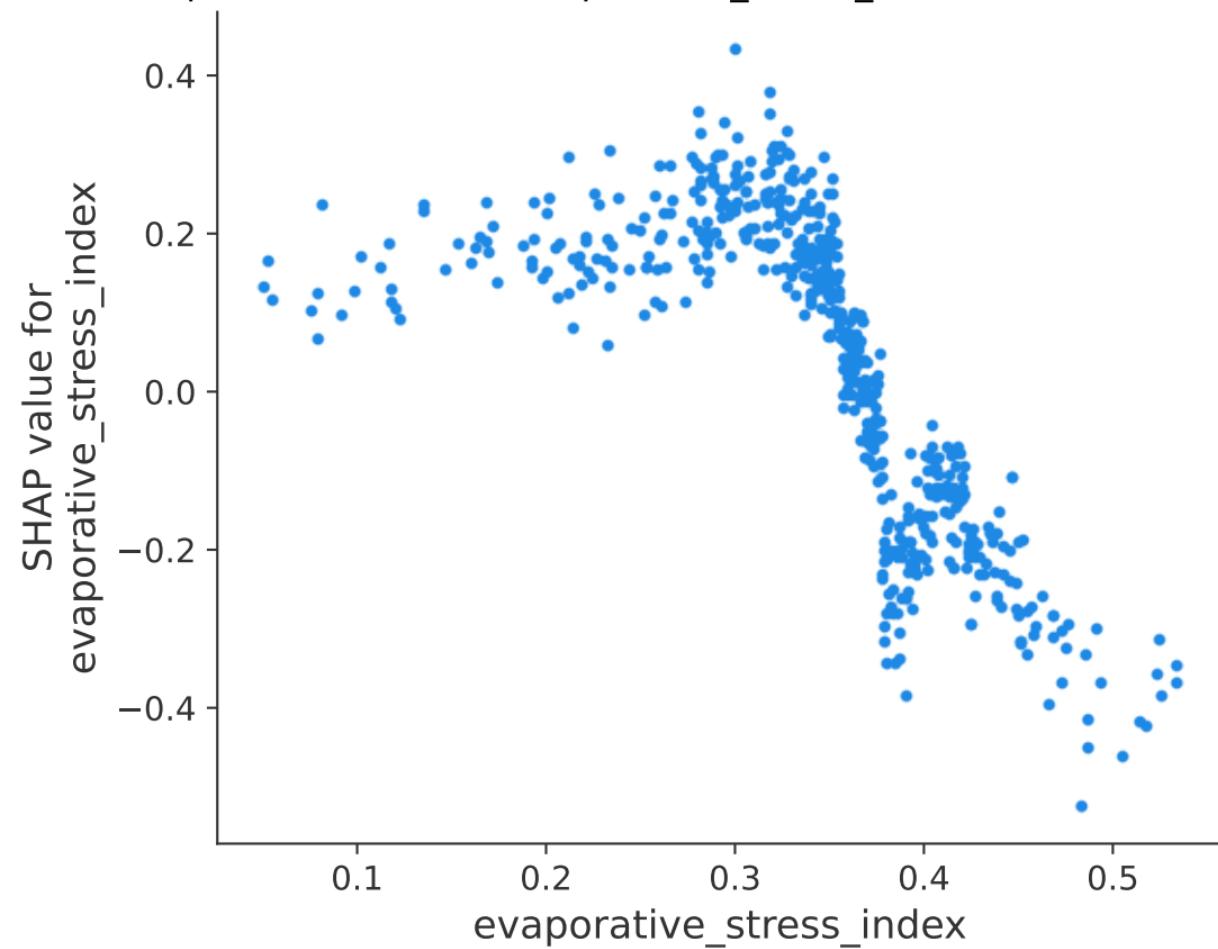
SHAP Dependence Plot for evaporative_stress_index, Class 0 - Maluku-Papua



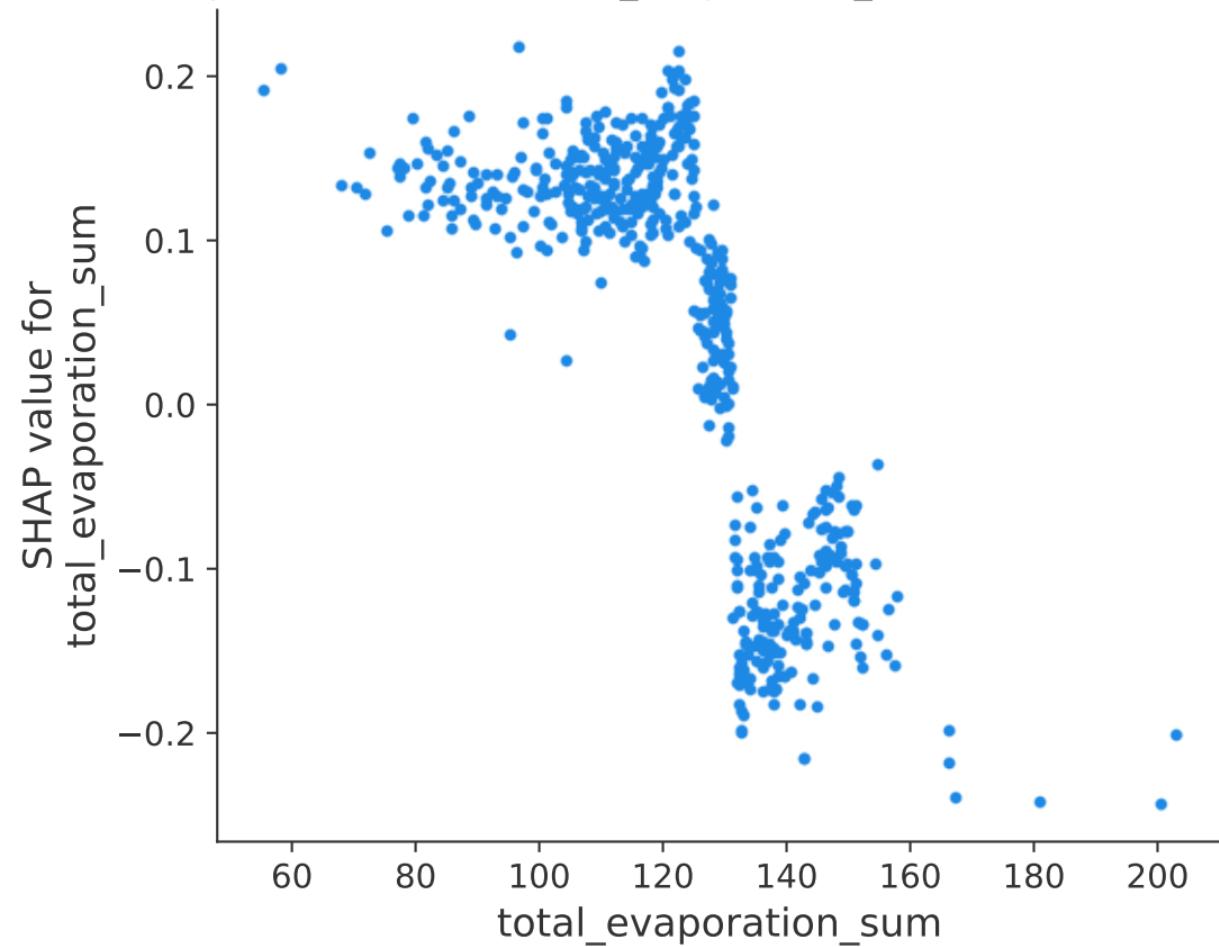
SHAP Dependence Plot for evaporative_stress_index, Class 1 - Maluku-Papua



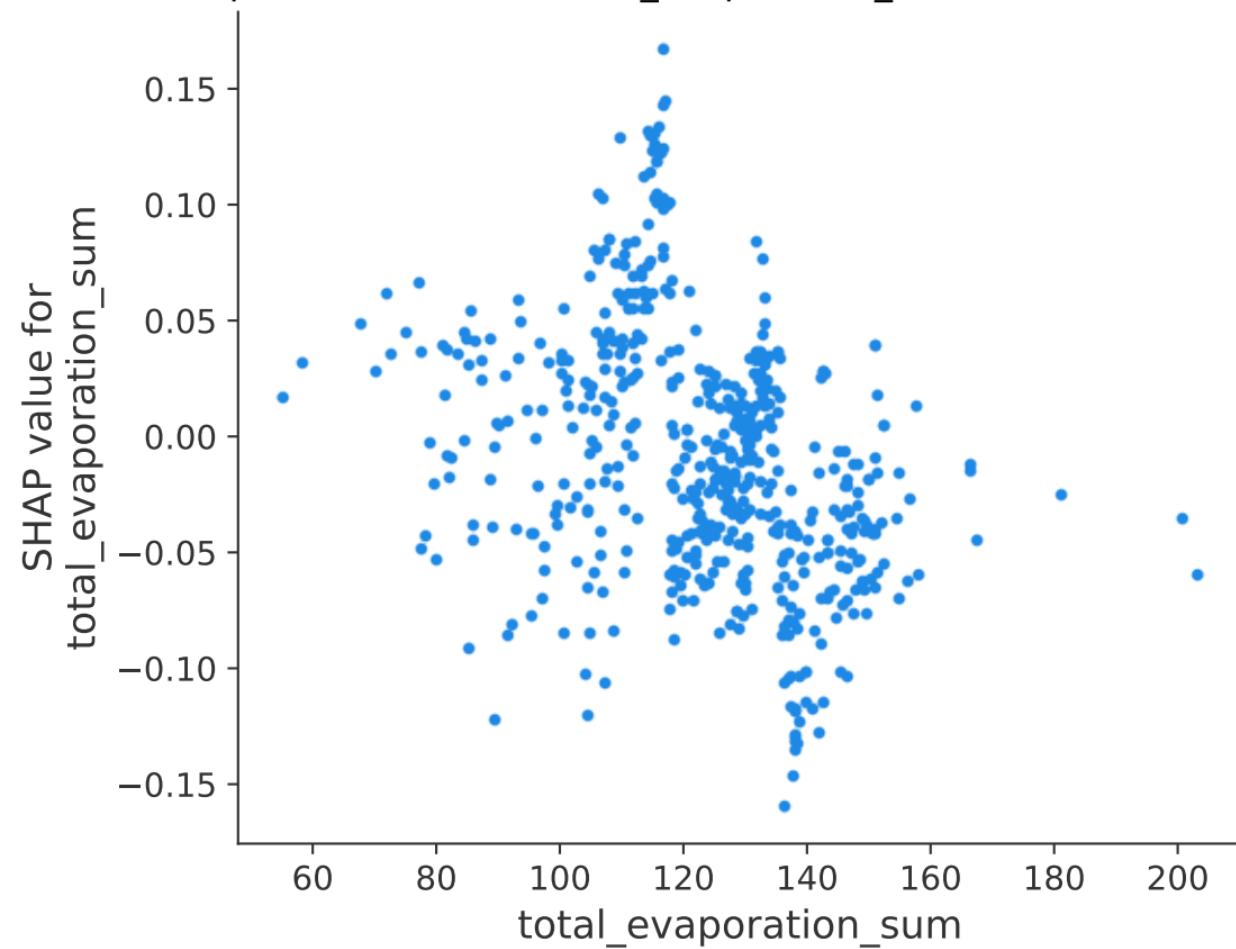
SHAP Dependence Plot for evaporative_stress_index, Class 2 - Maluku-Papua



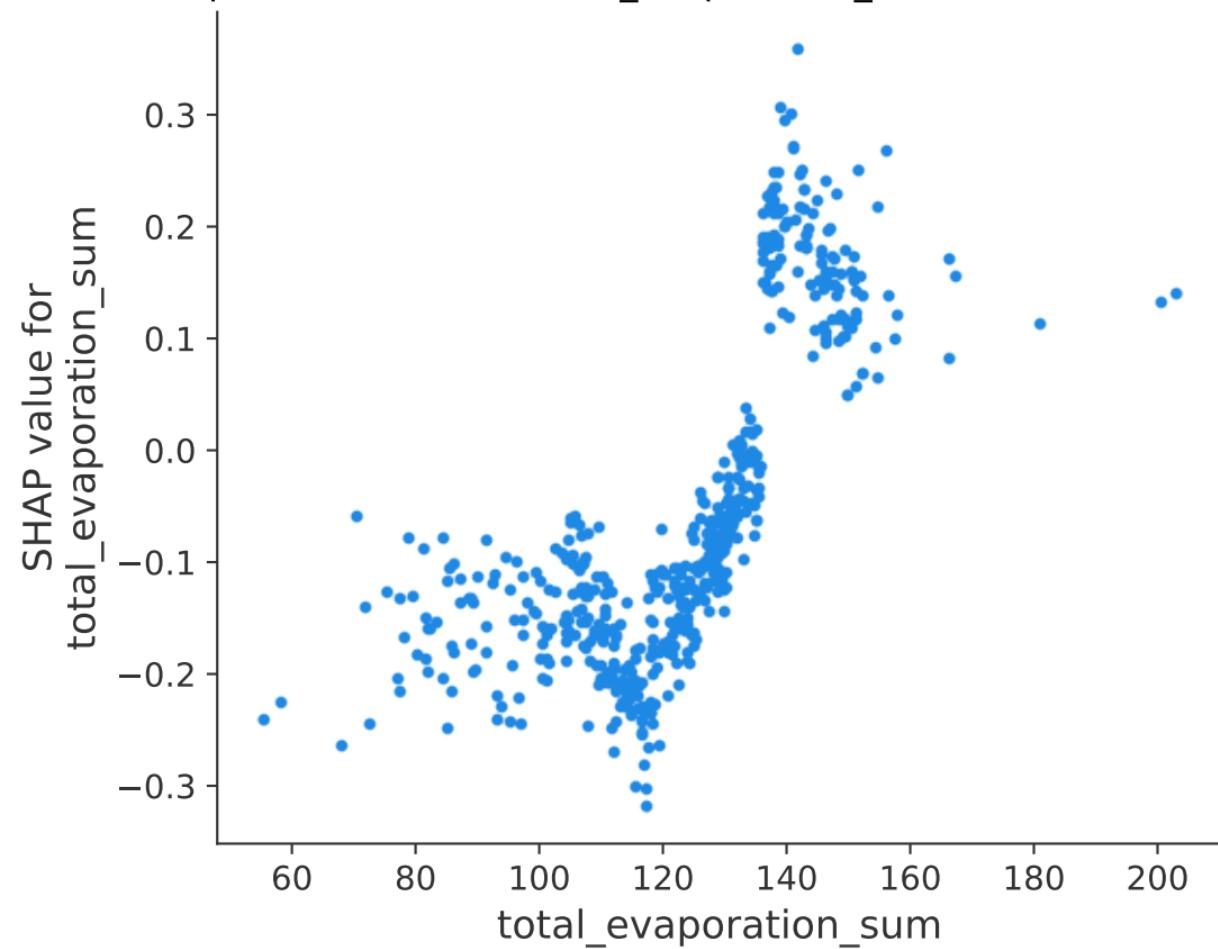
SHAP Dependence Plot for total_evaporation_sum, Class 0 - Maluku-Papua



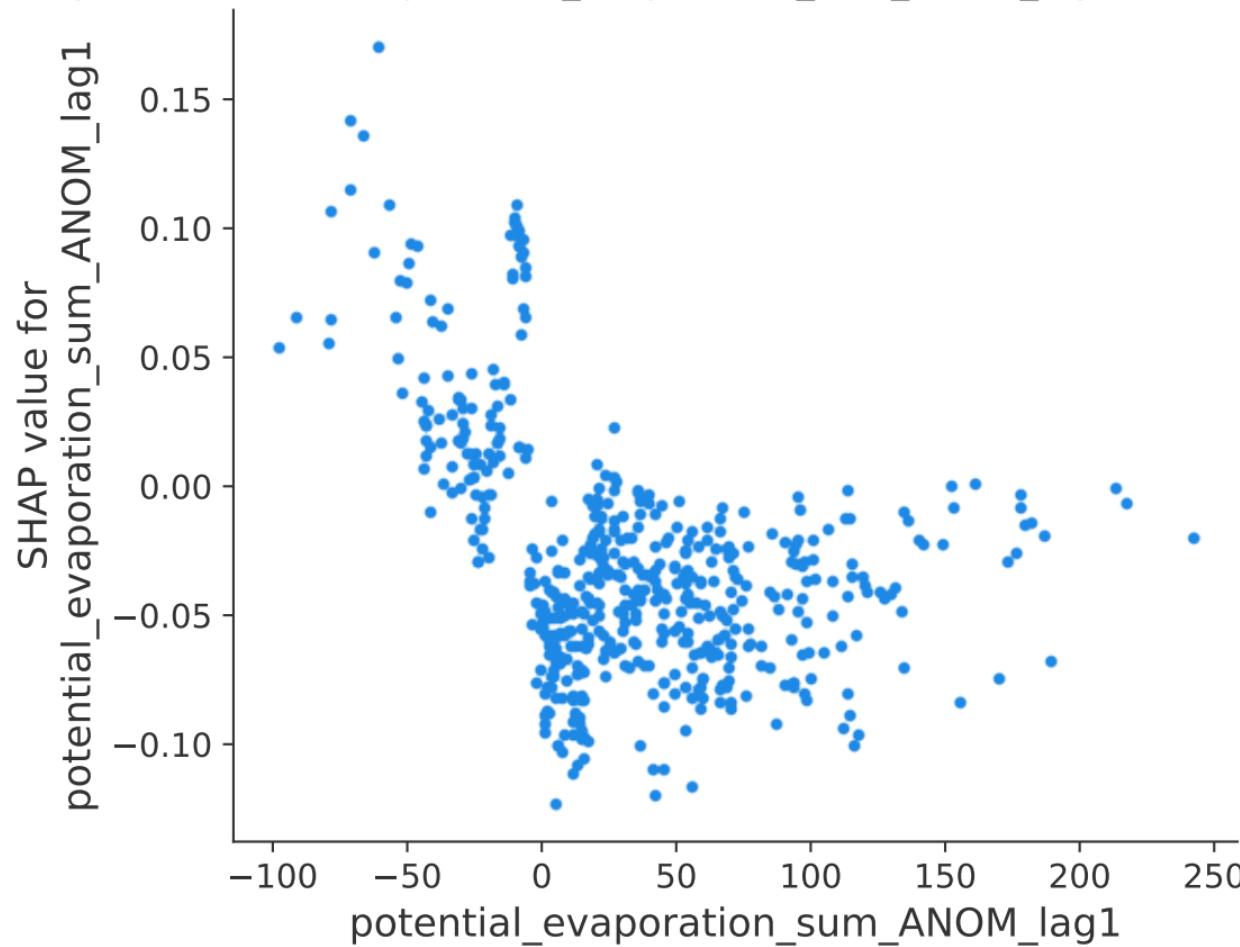
SHAP Dependence Plot for total_evaporation_sum, Class 1 - Maluku-Papua



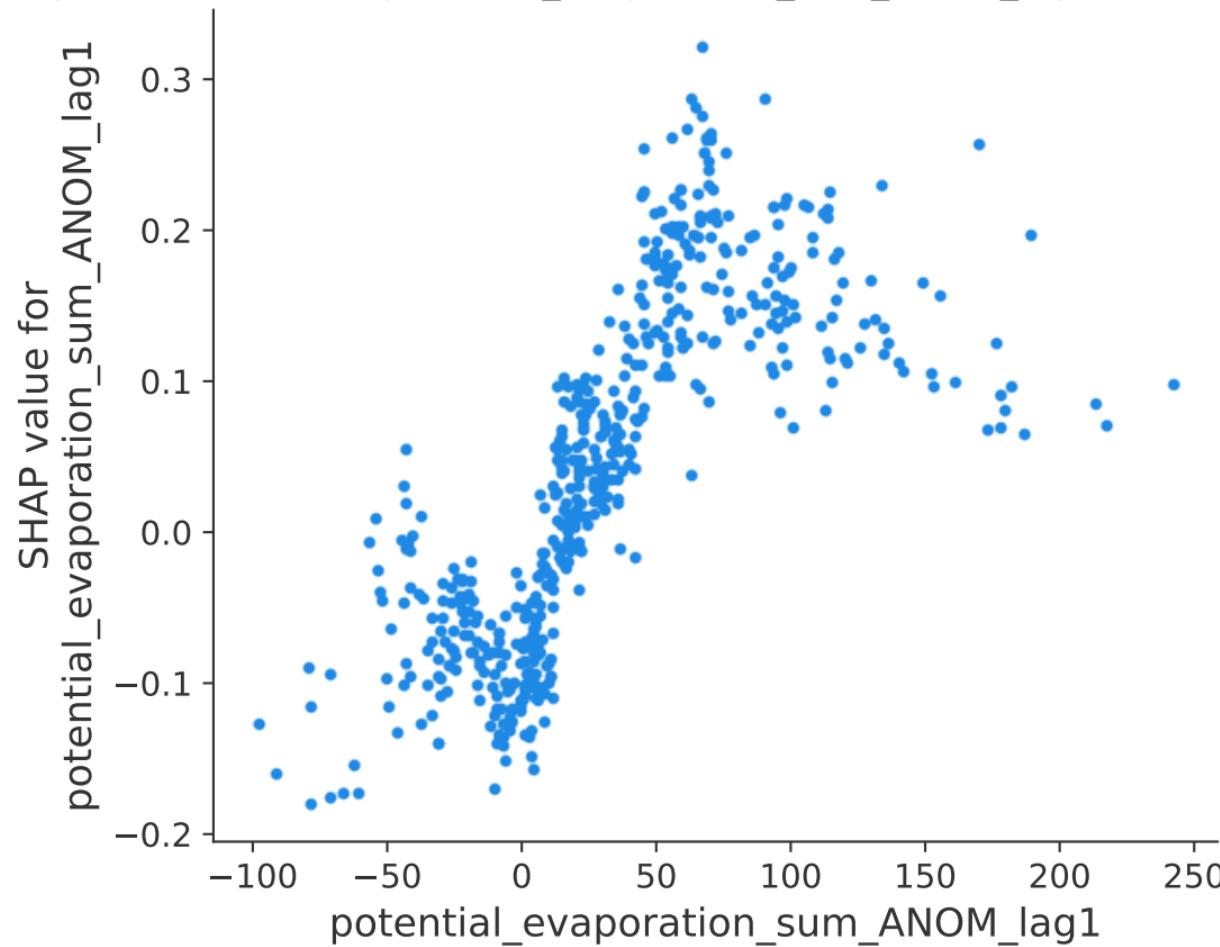
SHAP Dependence Plot for total_evaporation_sum, Class 2 - Maluku-Papua



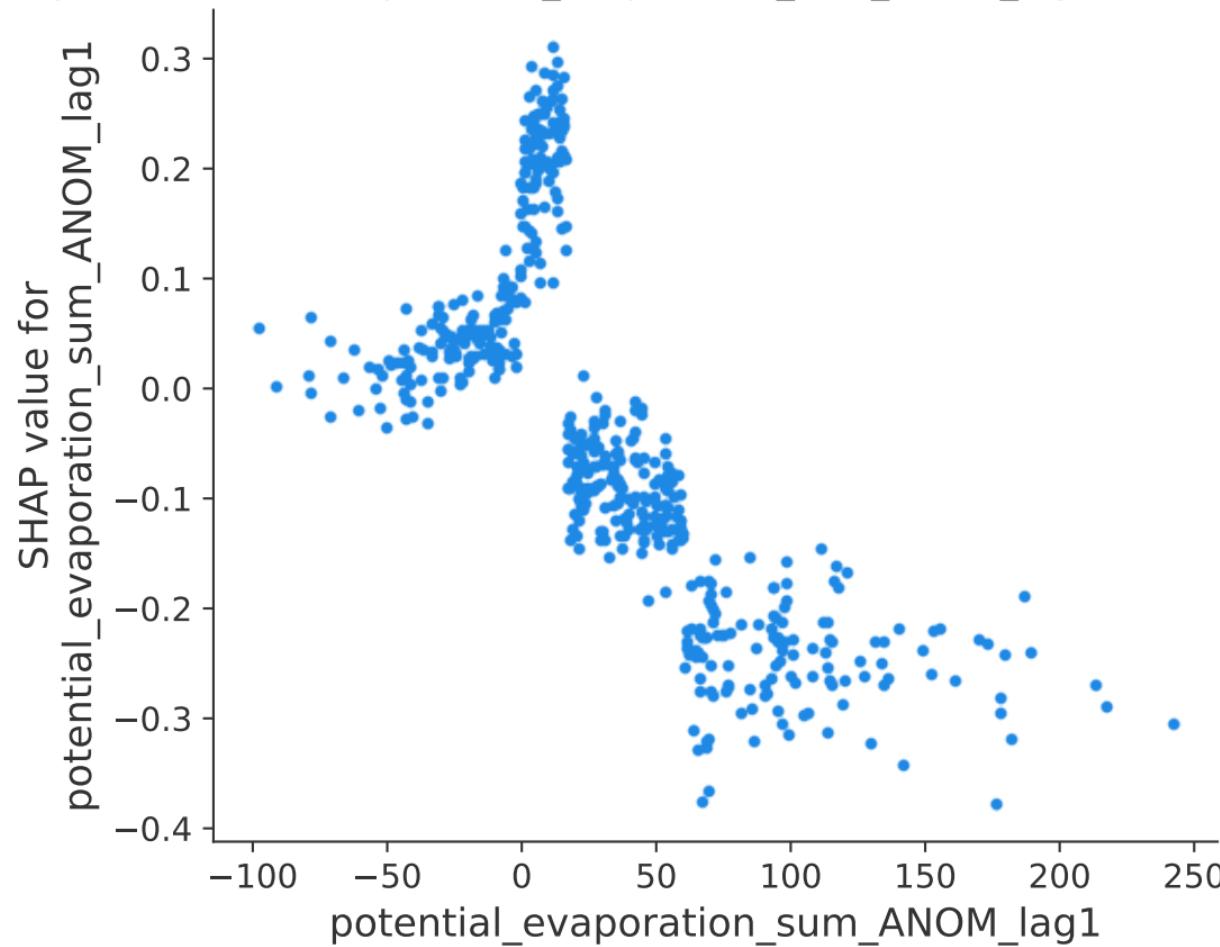
SHAP Dependence Plot for potential_evaporation_sum_ANOM_lag1, Class 0 - Maluku-Papua



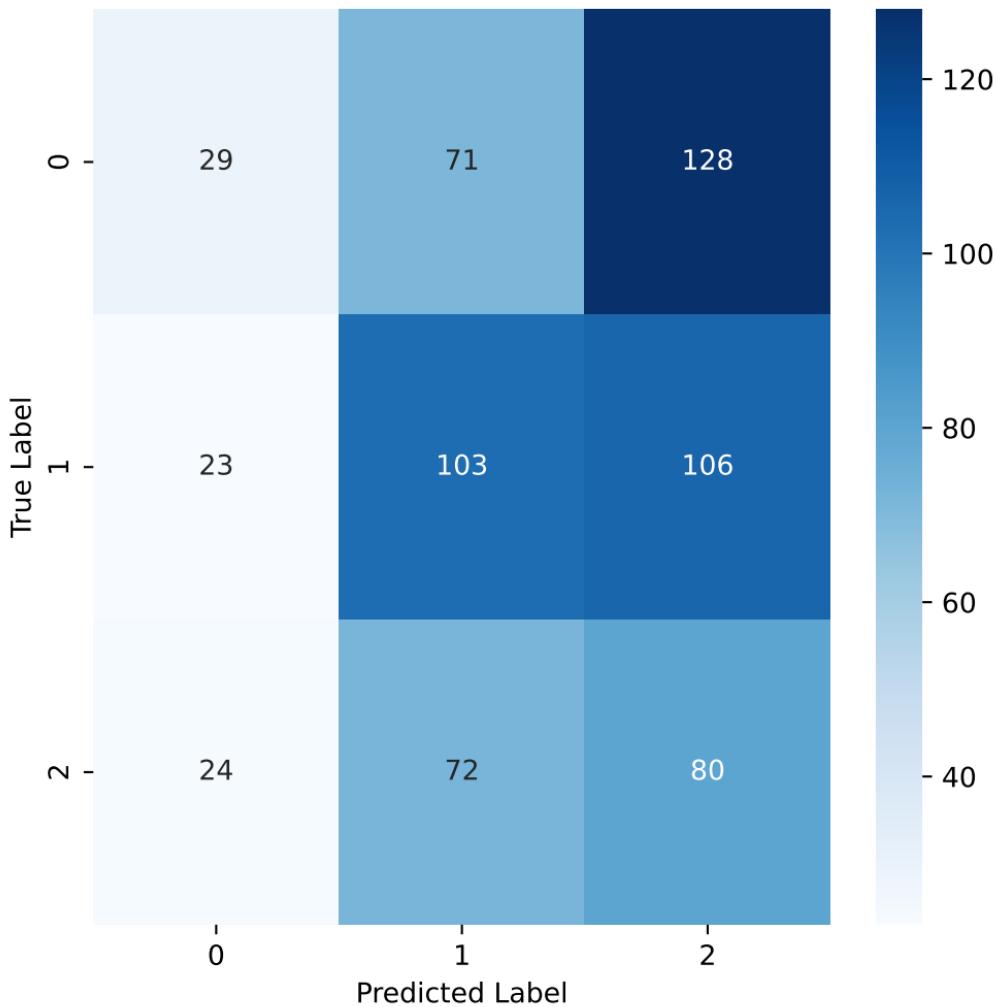
SHAP Dependence Plot for potential_evaporation_sum_ANOM_lag1, Class 1 - Maluku-Papua



SHAP Dependence Plot for potential_evaporation_sum_ANOM_lag1, Class 2 - Maluku-Papua



Confusion Matrix - Kalimantan



SHAP Beeswarm Plot for Class 0 - Kalimantan

High

Feature value

Low

ANOM3

evaporative_stress_index_lag3

ANOM1+2

total_evaporation_sum_lag3

ANOM4

temperature_2m_min

ANOM3.4

total_evaporation_sum_lag2

temperature_2m_max_lag2

DMI_lag1

temperature_2m_max_lag3

temperature_2m_min_lag3

temperature_2m_min_ANOM_lag2

temperature_2m_min_lag2

potential_evaporation_sum_ANOM_lag1

temperature_2m_max

temperature_2m_min_ANOM

precipitation_lag3

total_evaporation_sum_lag1

temperature_2m_ANOM_lag2

SHAP value (impact on model output)

SHAP Beeswarm Plot for Class 1 - Kalimantan

High

temperature_2m_max_lag3

temperature_2m

temperature_2m_lag1

potential_evaporation_sum_lag3

temperature_2m_lag2

temperature_2m_min

evaporative_stress_index_lag3

total_evaporation_sum

temperature_2m_max_lag2

precipitation_ANOM_lag2

total_evaporation_sum_lag3

temperature_2m_min_lag3

DMI

total_evaporation_sum_lag2

ANOM3_lag1

ANOM1+2_lag3

ANOM3_lag2

temperature_2m_ANOM_lag1

precipitation

potential_evaporation_sum

Feature value

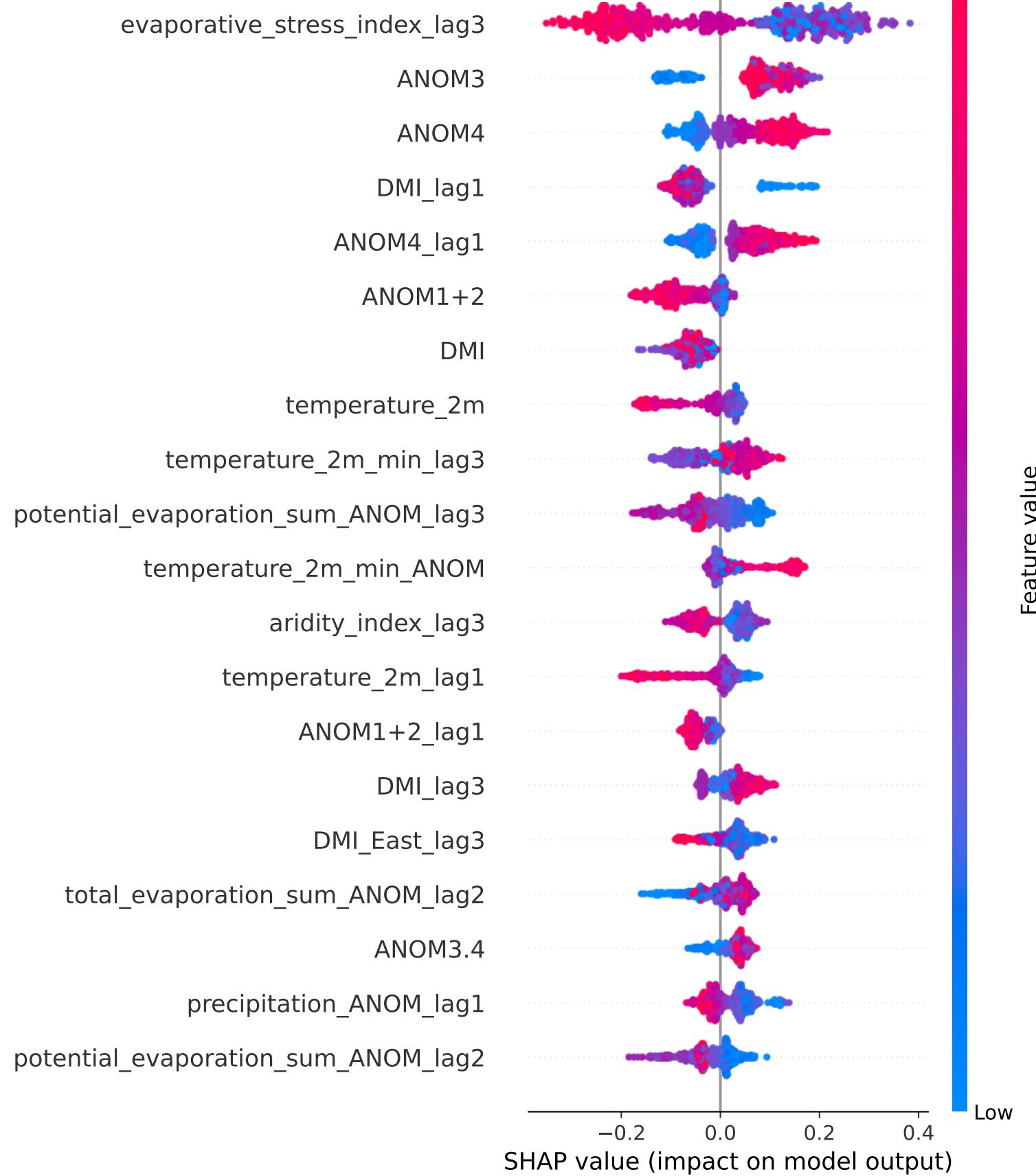
-0.2 0.0 0.2 0.4 0.6

SHAP value (impact on model output)

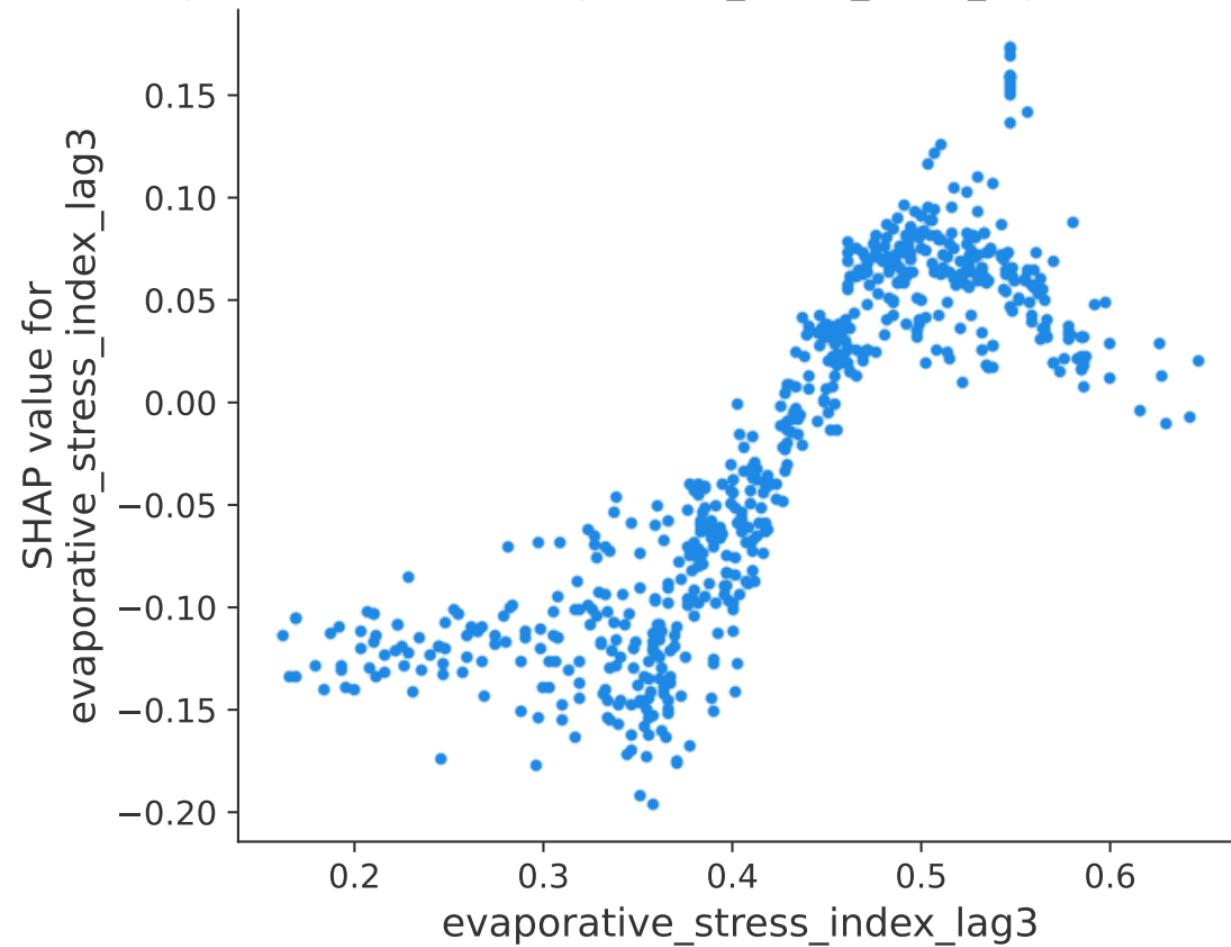
Low

SHAP Beeswarm Plot for Class 2 - Kalimantan

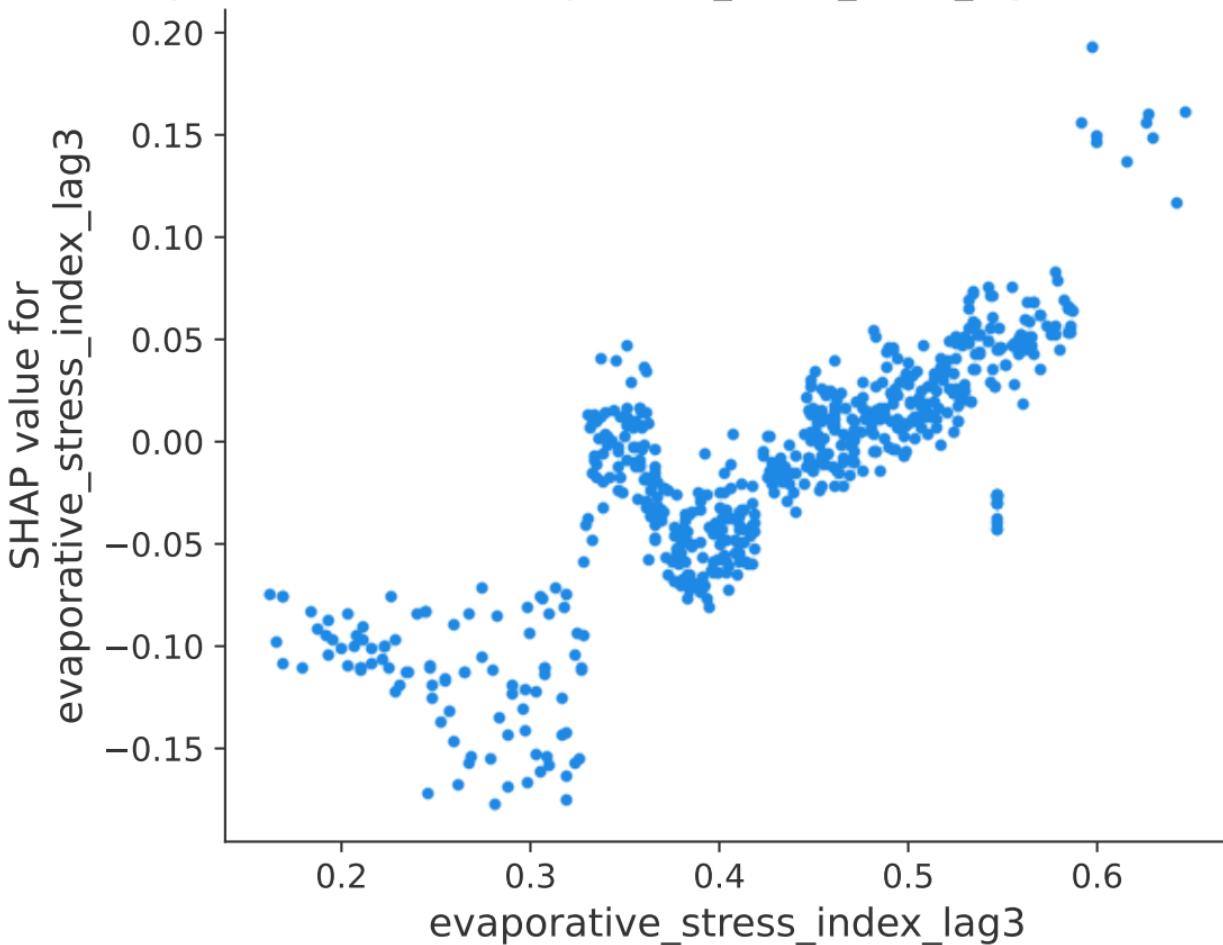
High



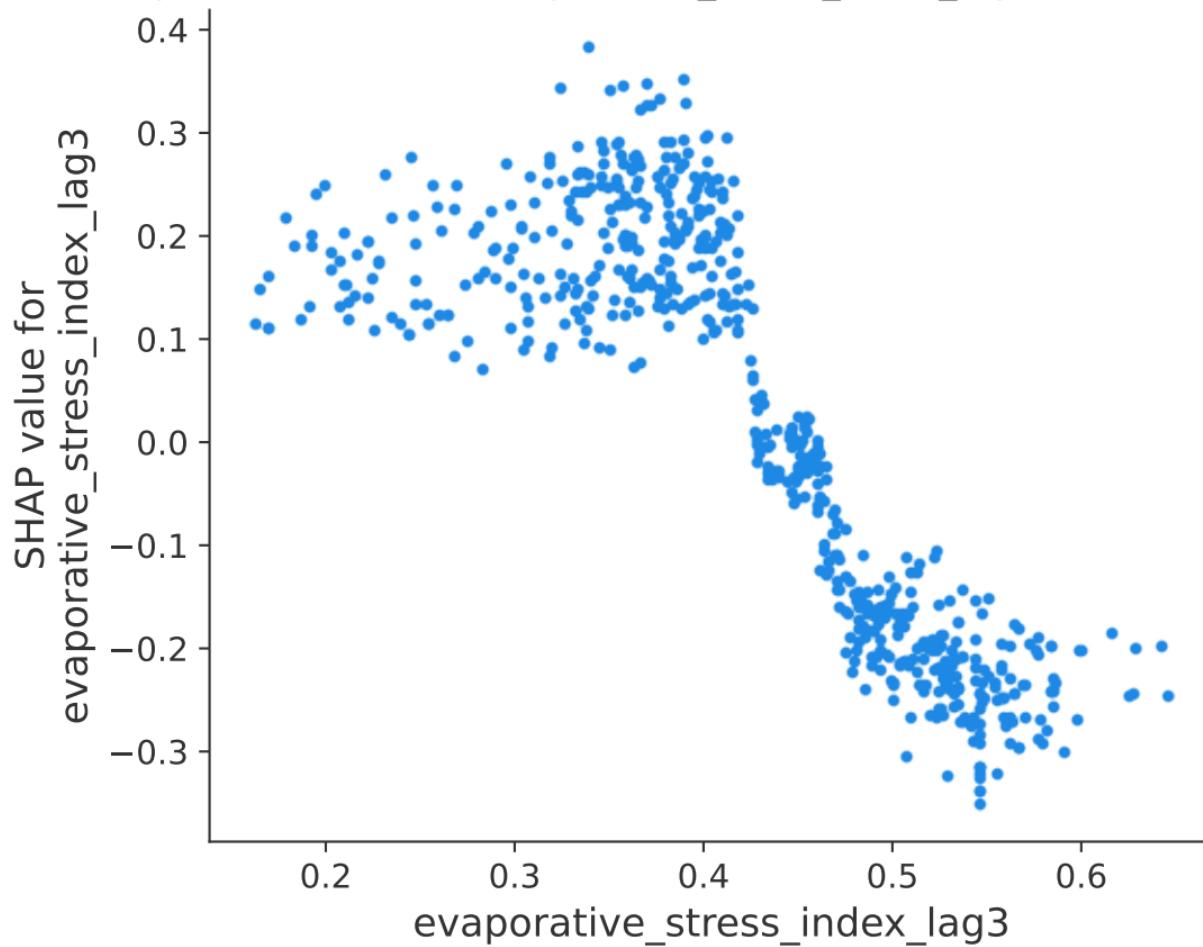
SHAP Dependence Plot for evaporative_stress_index_lag3, Class 0 - Kalimantan



SHAP Dependence Plot for evaporative_stress_index_lag3, Class 1 - Kalimantan

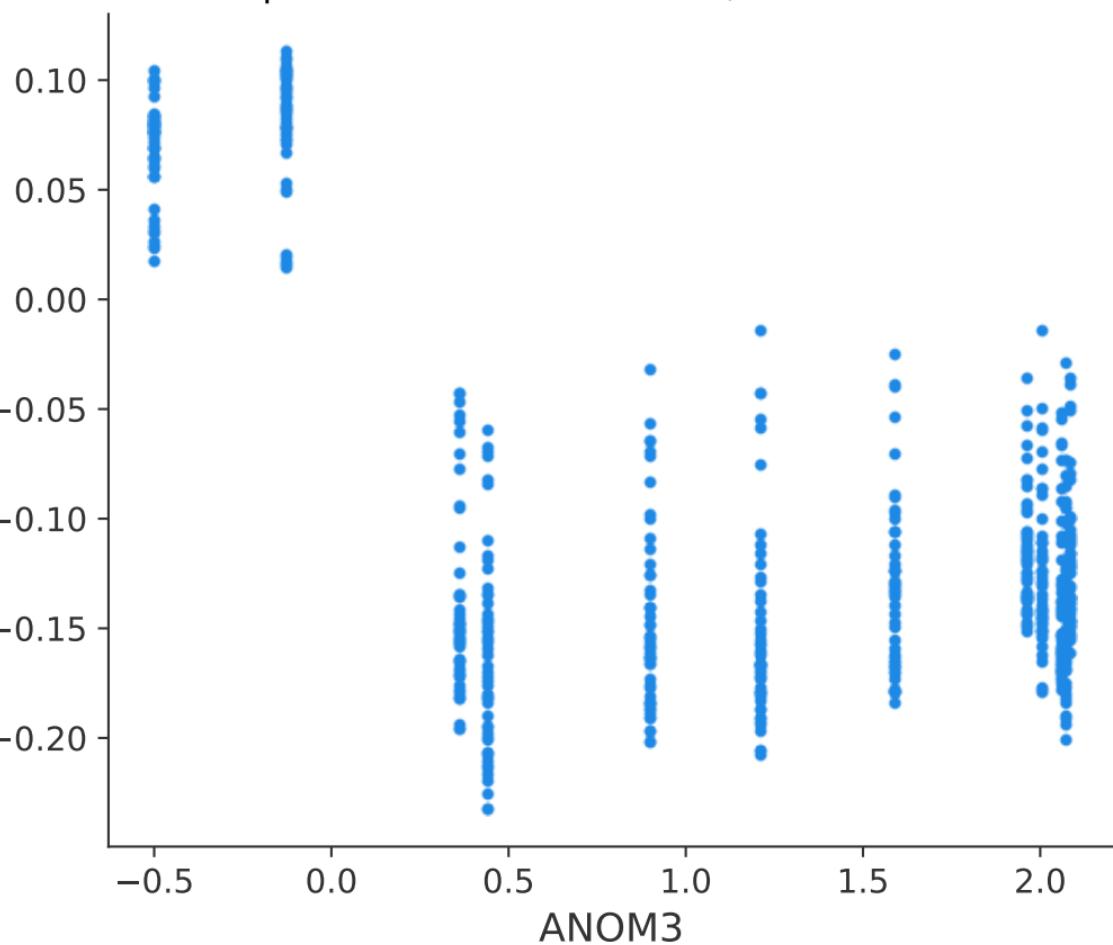


SHAP Dependence Plot for evaporative_stress_index_lag3, Class 2 - Kalimantan



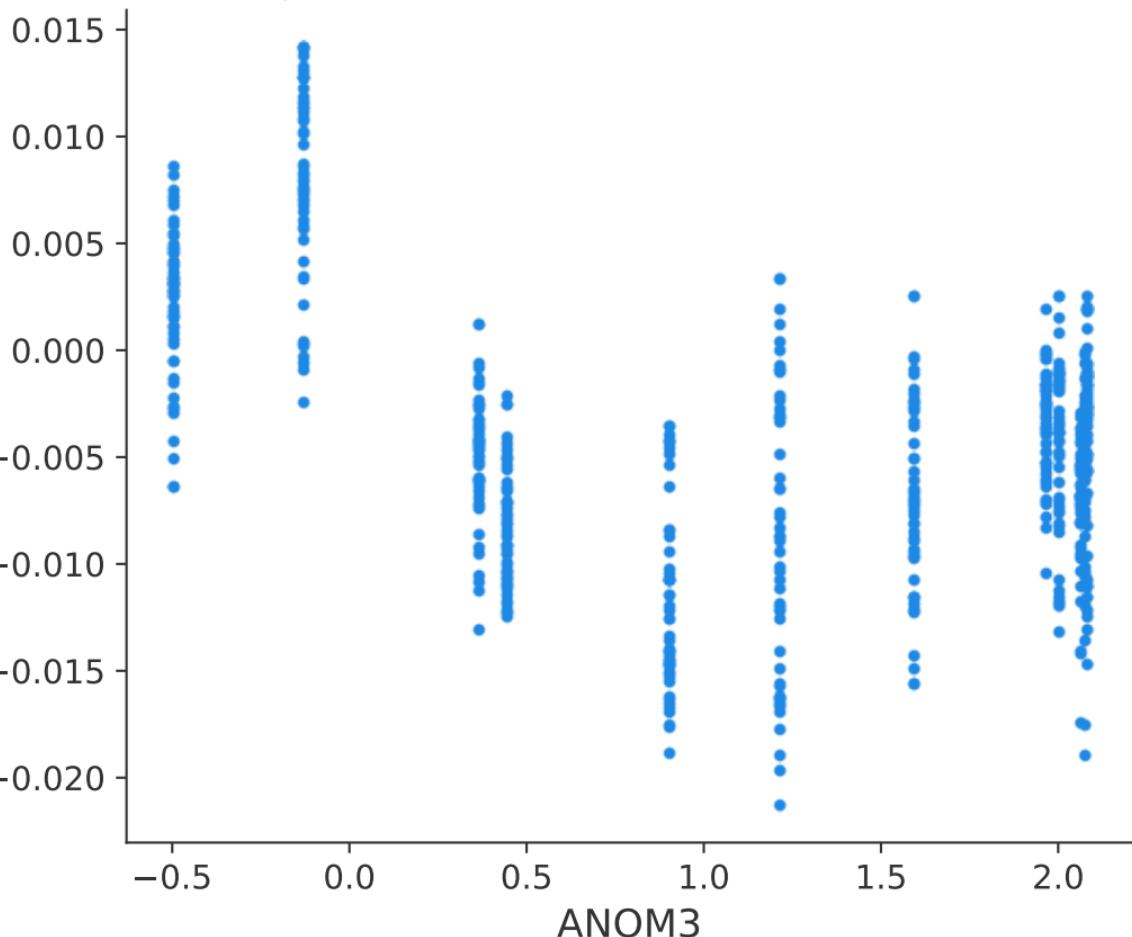
SHAP Dependence Plot for ANOM3, Class 0 - Kalimantan

SHAP value for
ANOM3

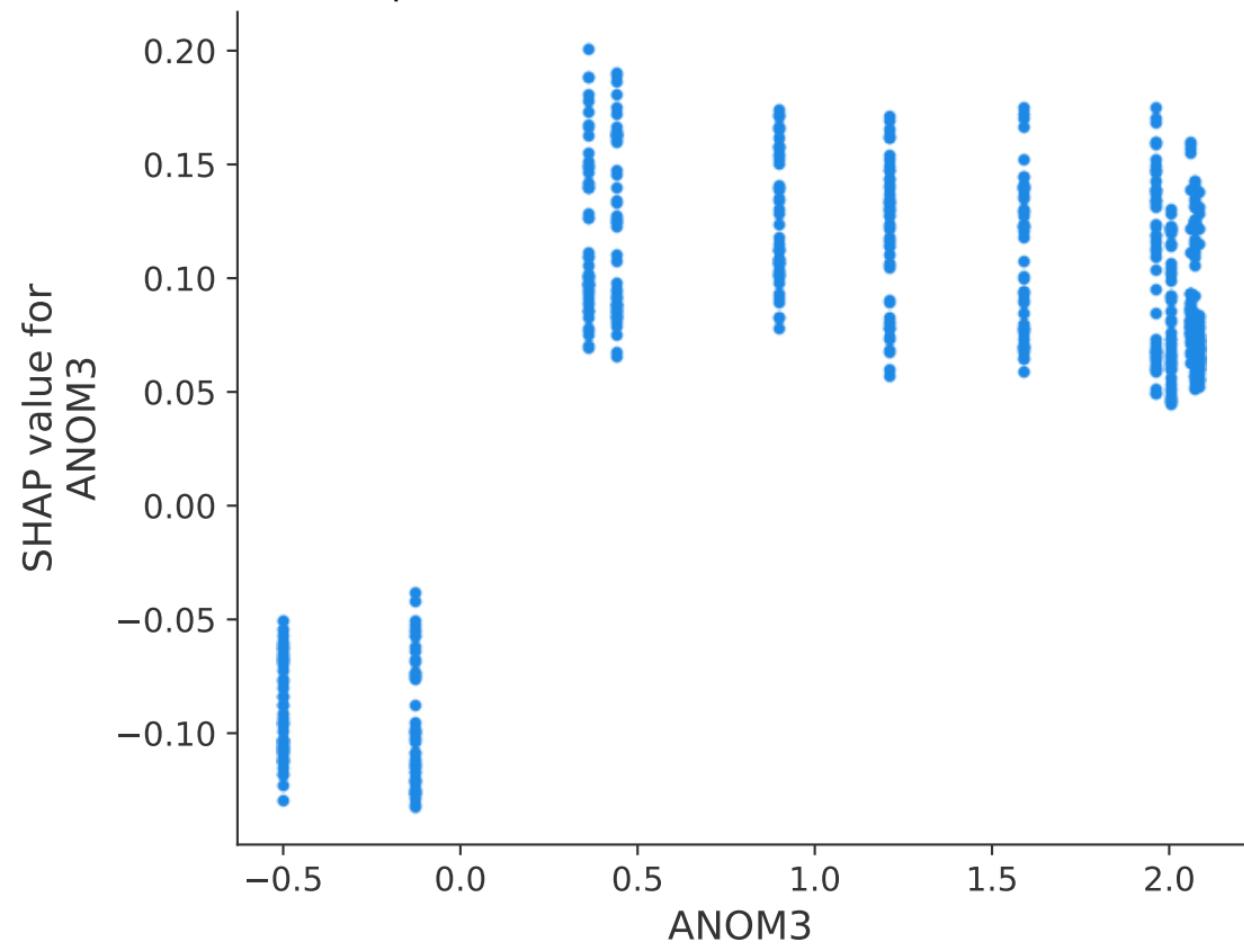


SHAP Dependence Plot for ANOM3, Class 1 - Kalimantan

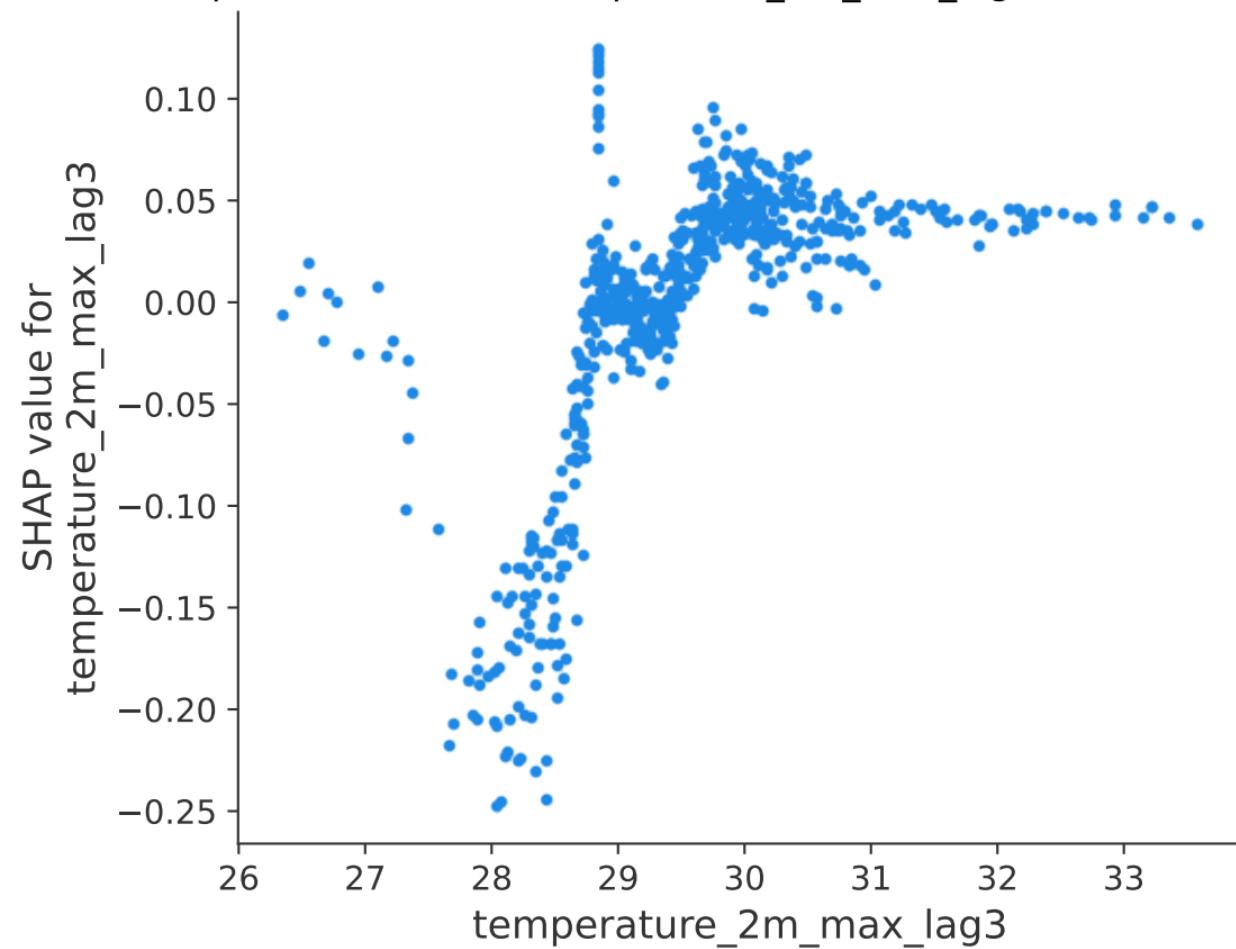
SHAP value for
ANOM3



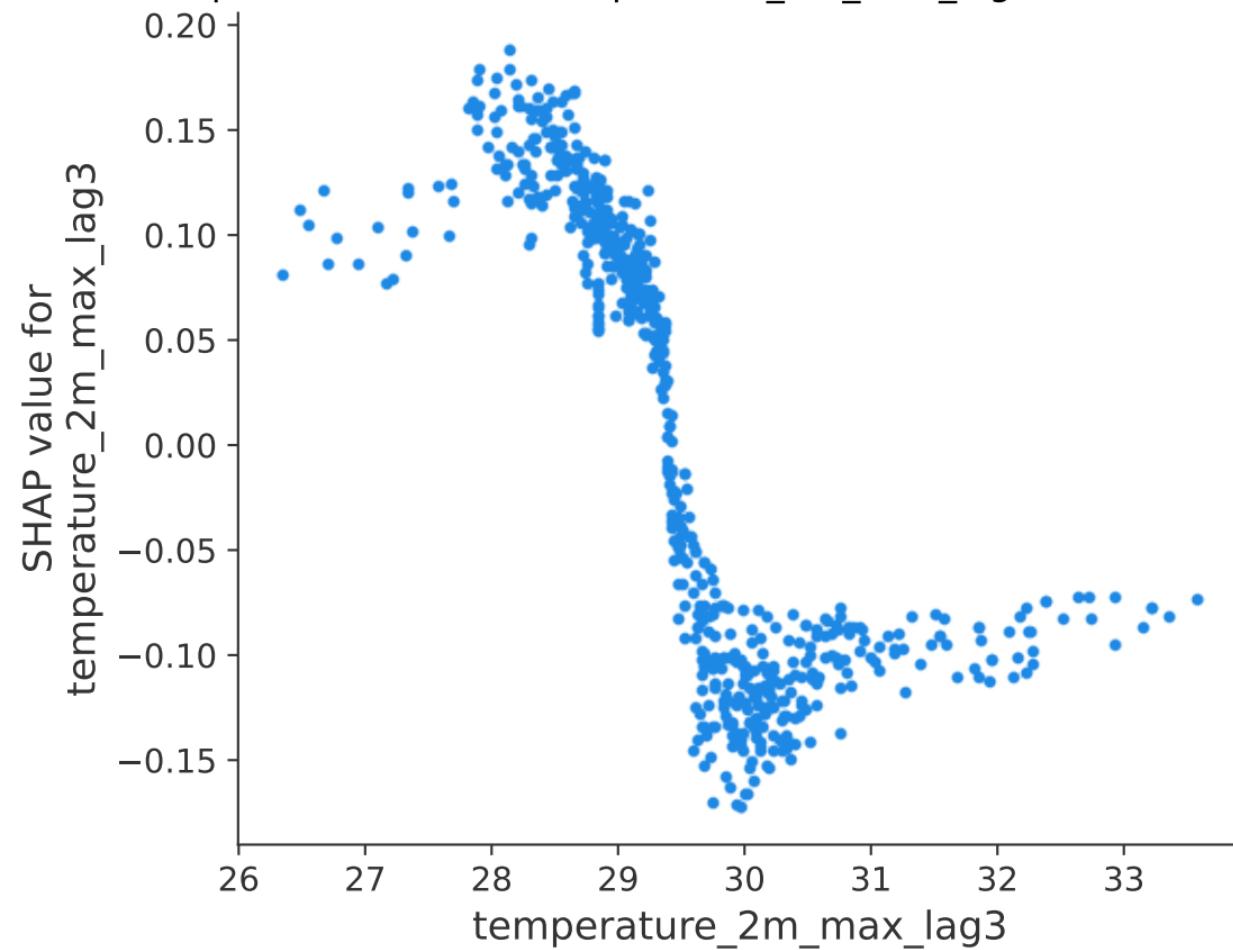
SHAP Dependence Plot for ANOM3, Class 2 - Kalimantan



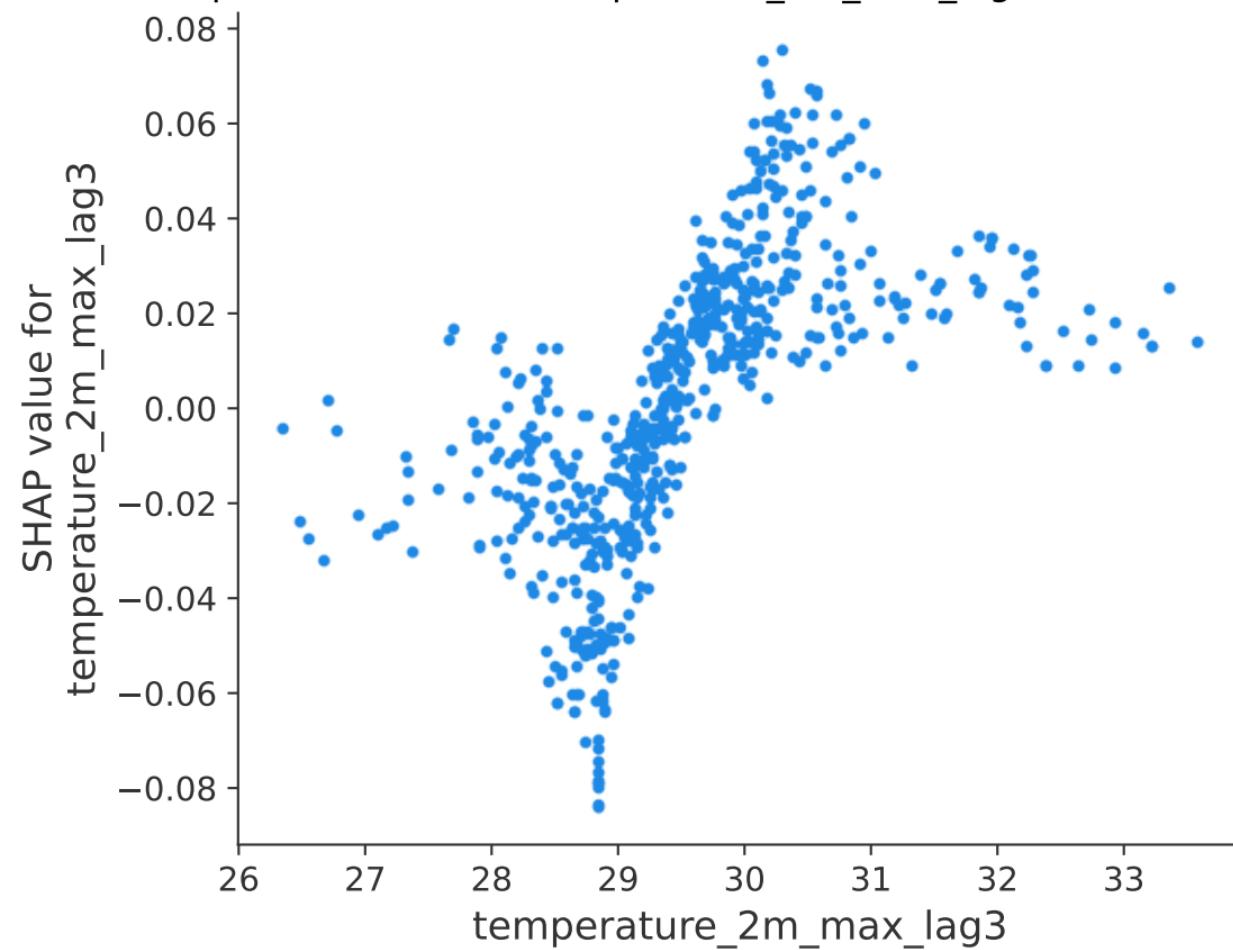
SHAP Dependence Plot for temperature_2m_max_lag3, Class 0 - Kalimantan



SHAP Dependence Plot for temperature_2m_max_lag3, Class 1 - Kalimantan



SHAP Dependence Plot for temperature_2m_max_lag3, Class 2 - Kalimantan



SHAP Dependence Plot for ANOM4, Class 0 - Kalimantan

SHAP value for
ANOM4

0.10

0.05

0.00

-0.05

-0.10

-0.50 -0.25 0.00 0.25 0.50 0.75 1.00 1.25 1.50

ANOM4

SHAP Dependence Plot for ANOM4, Class 1 - Kalimantan

SHAP value for
ANOM4

-0.50 -0.25 0.00 0.25 0.50 0.75 1.00 1.25 1.50

ANOM4

0.01

0.00

-0.01

-0.02

-0.03

0.02

0.01

0.00

-0.01

-0.02

-0.03

-0.04

-0.05

-0.06

-0.07

-0.08

-0.09

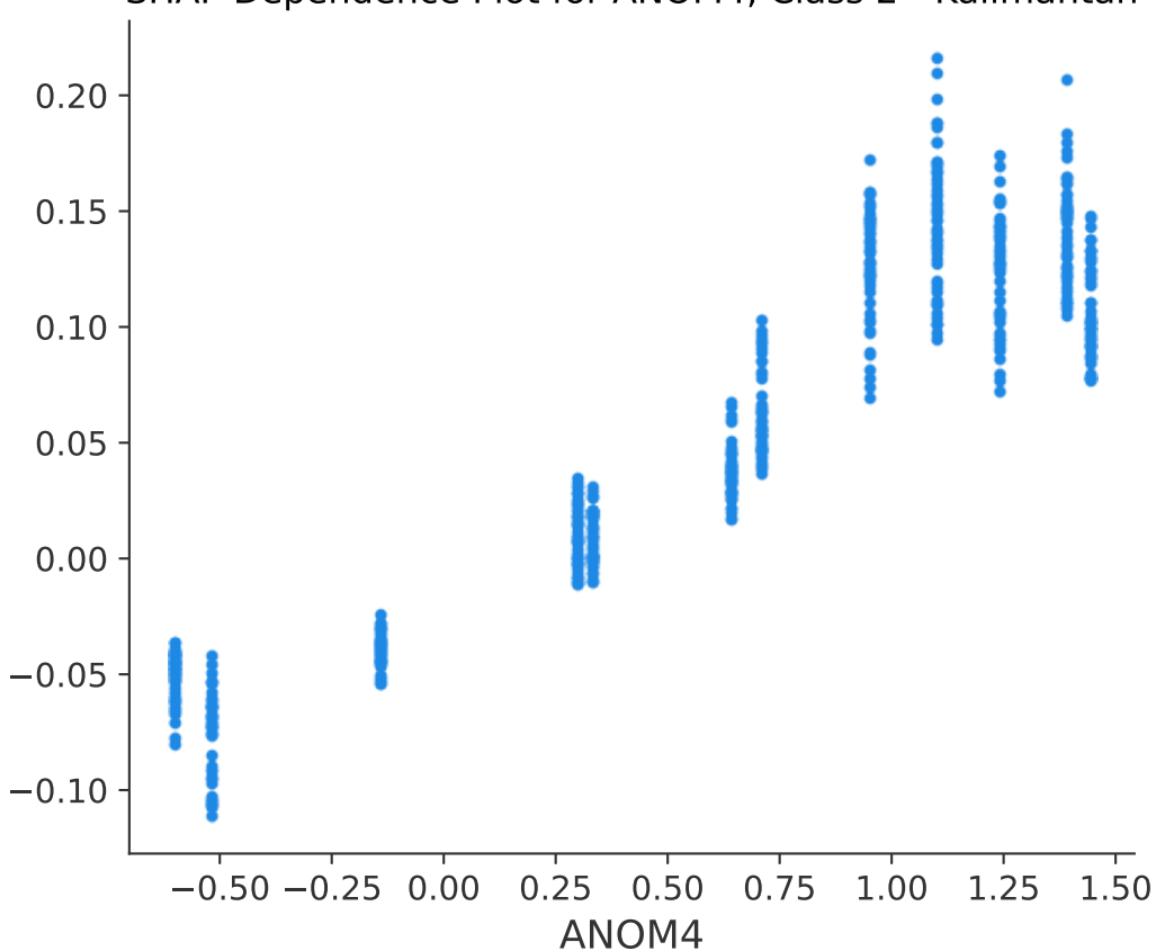
-0.10

-0.11

-0.12

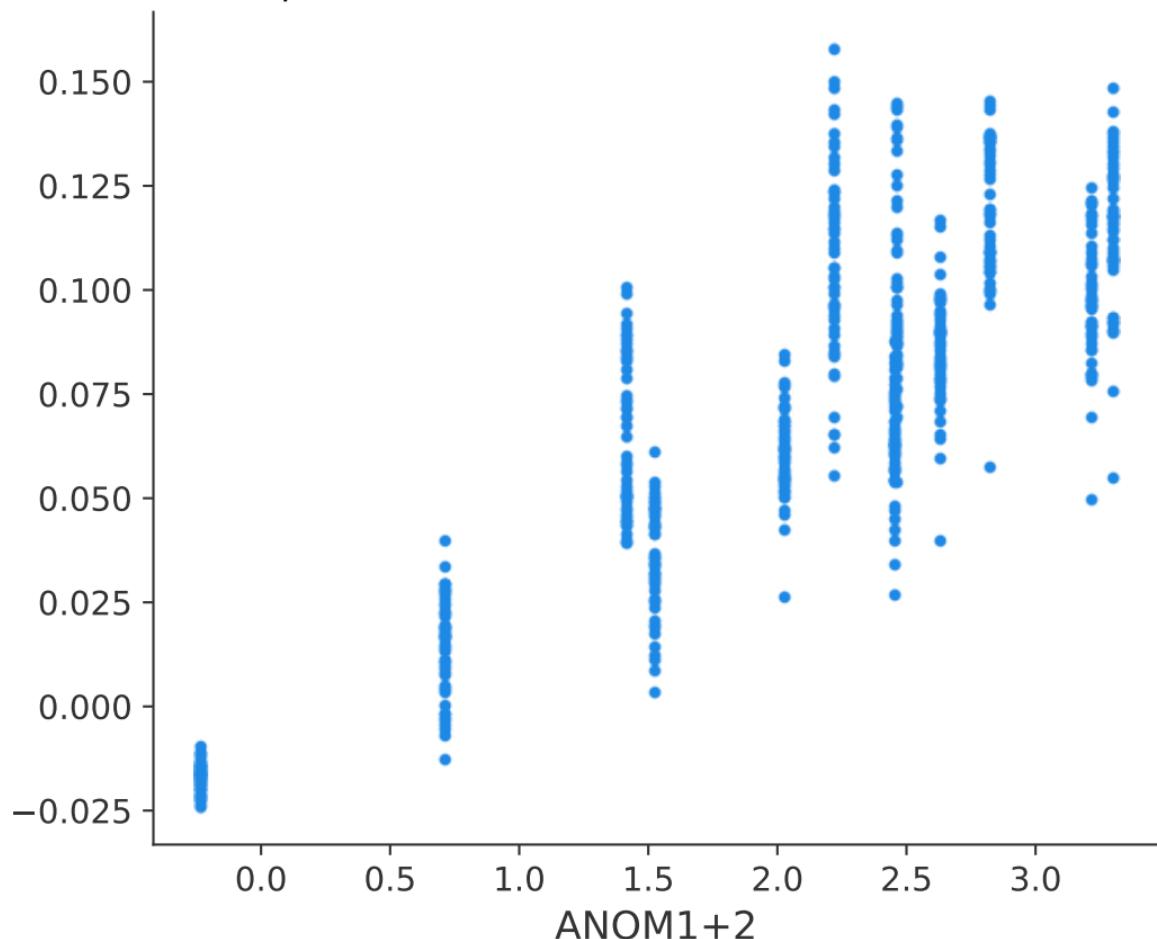
SHAP Dependence Plot for ANOM4, Class 2 - Kalimantan

SHAP value for
ANOM4

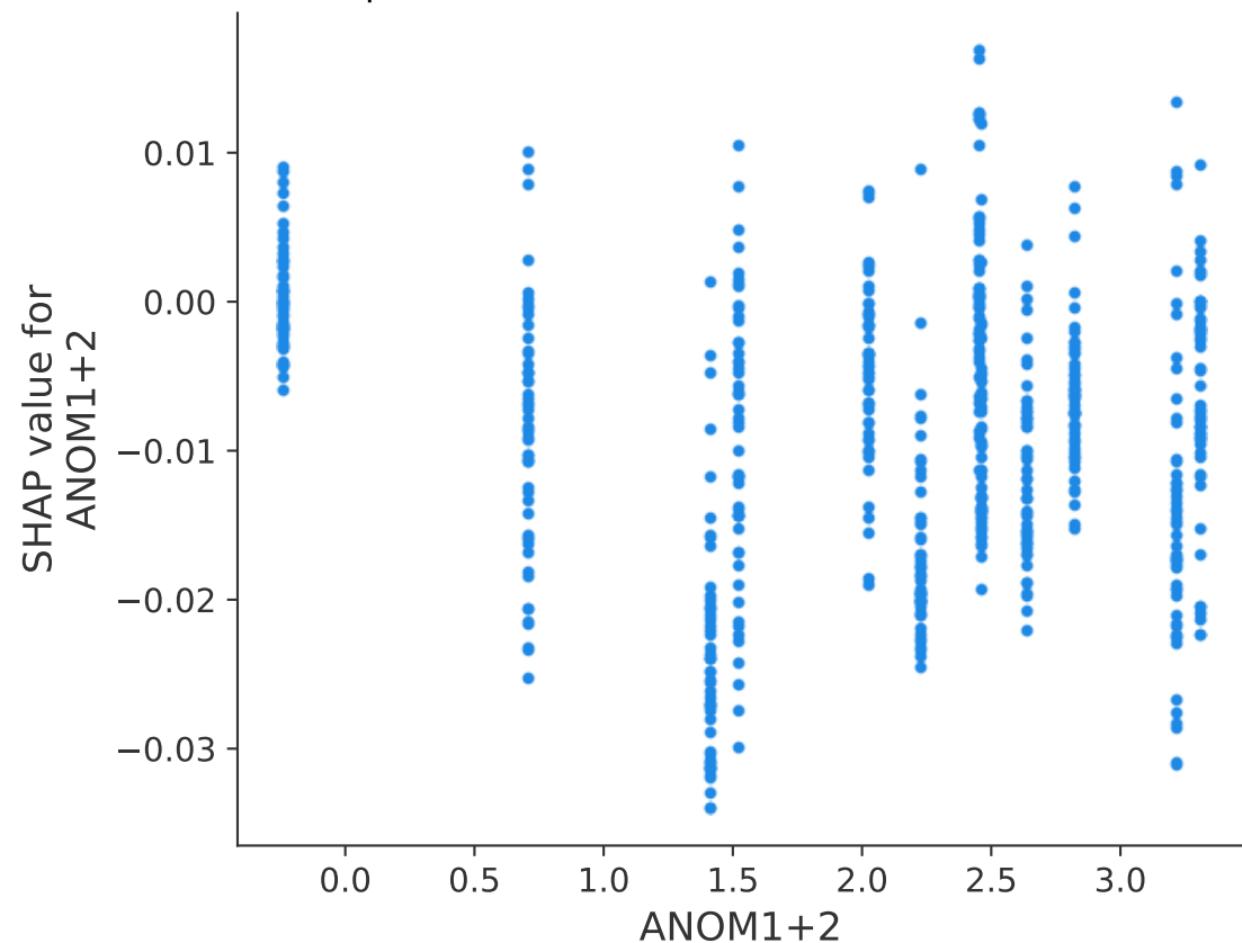


SHAP Dependence Plot for ANOM1+2, Class 0 - Kalimantan

SHAP value for
ANOM1+2



SHAP Dependence Plot for ANOM1+2, Class 1 - Kalimantan



SHAP Dependence Plot for ANOM1+2, Class 2 - Kalimantan

SHAP value for
ANOM1+2

