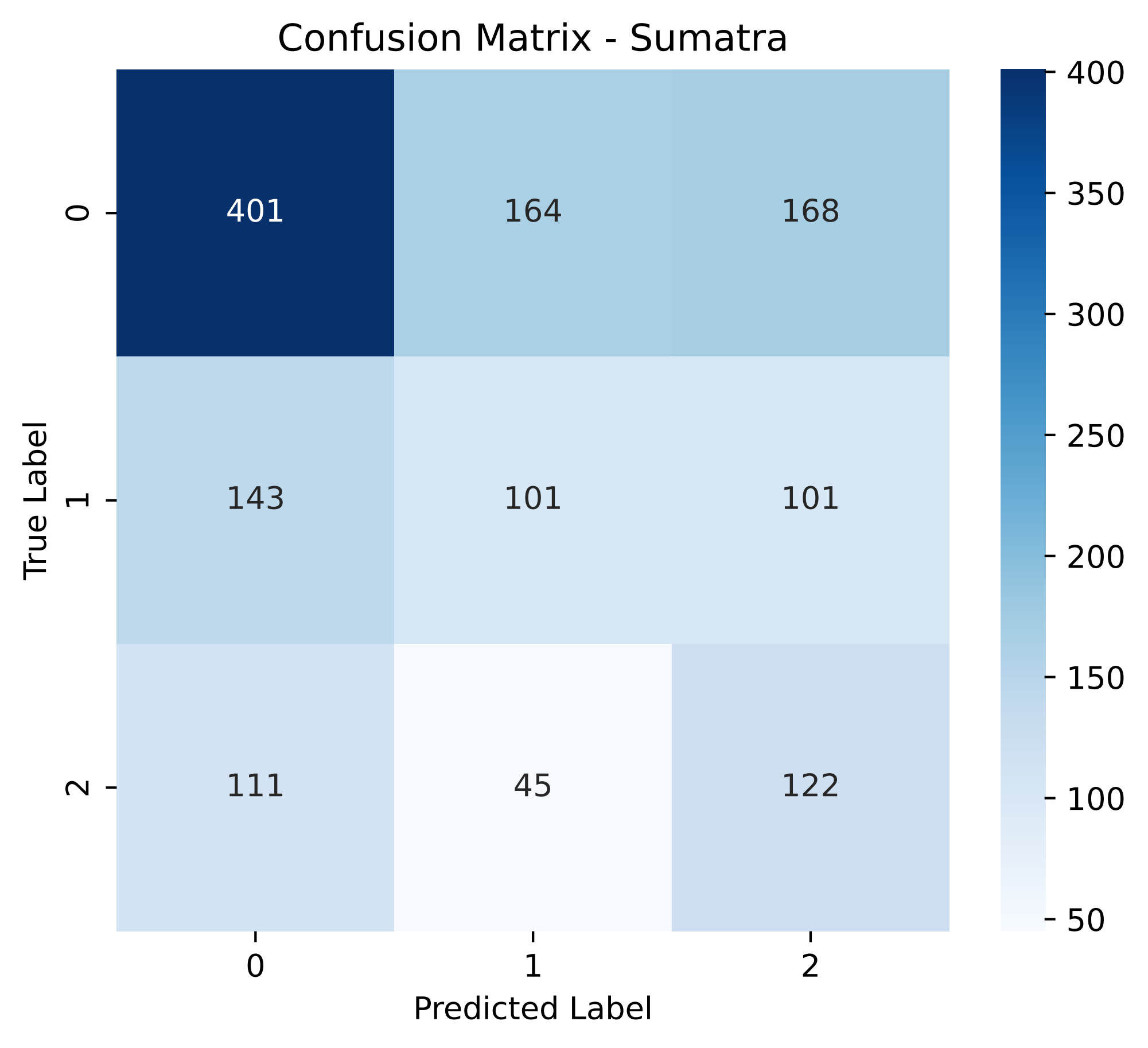
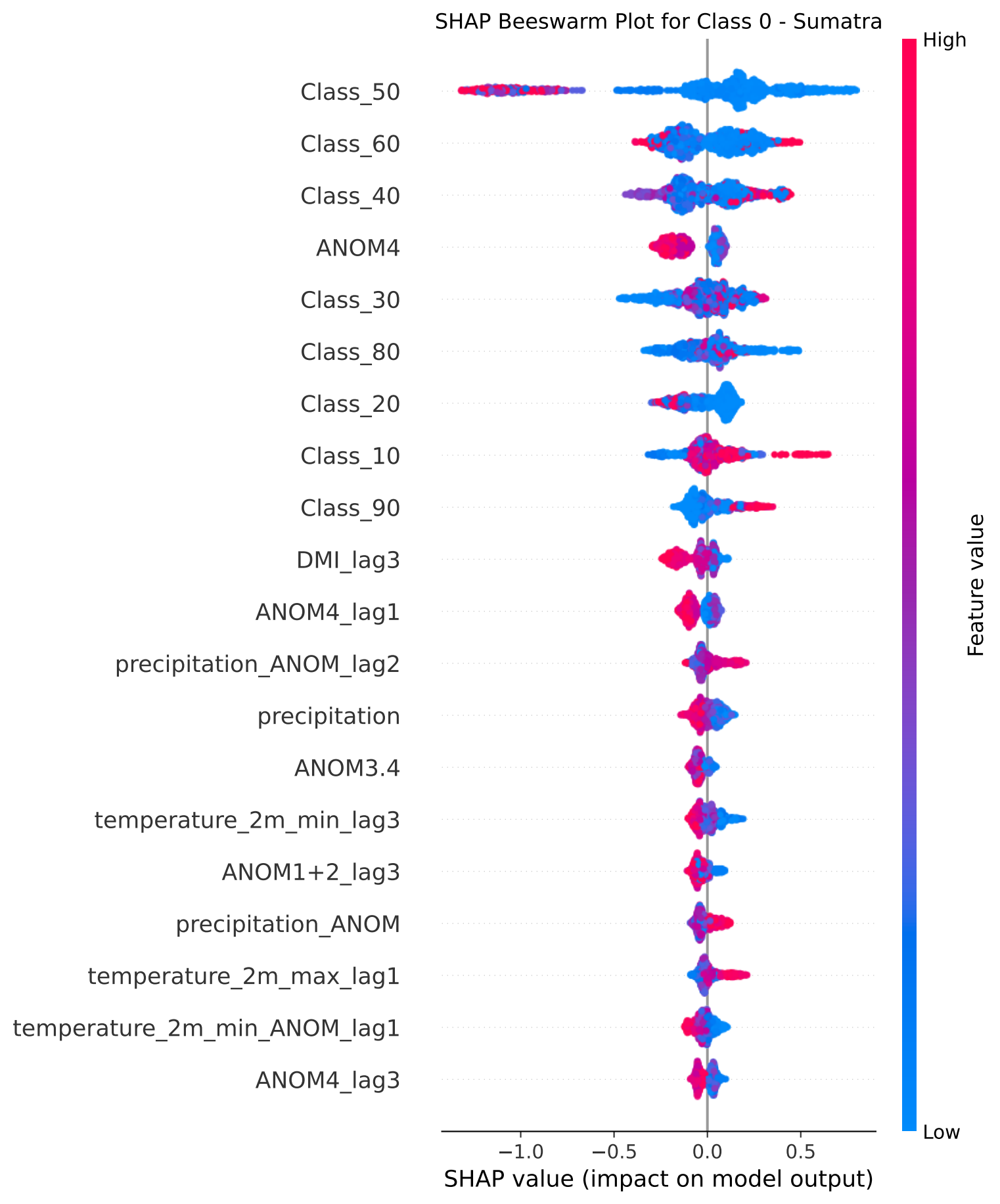
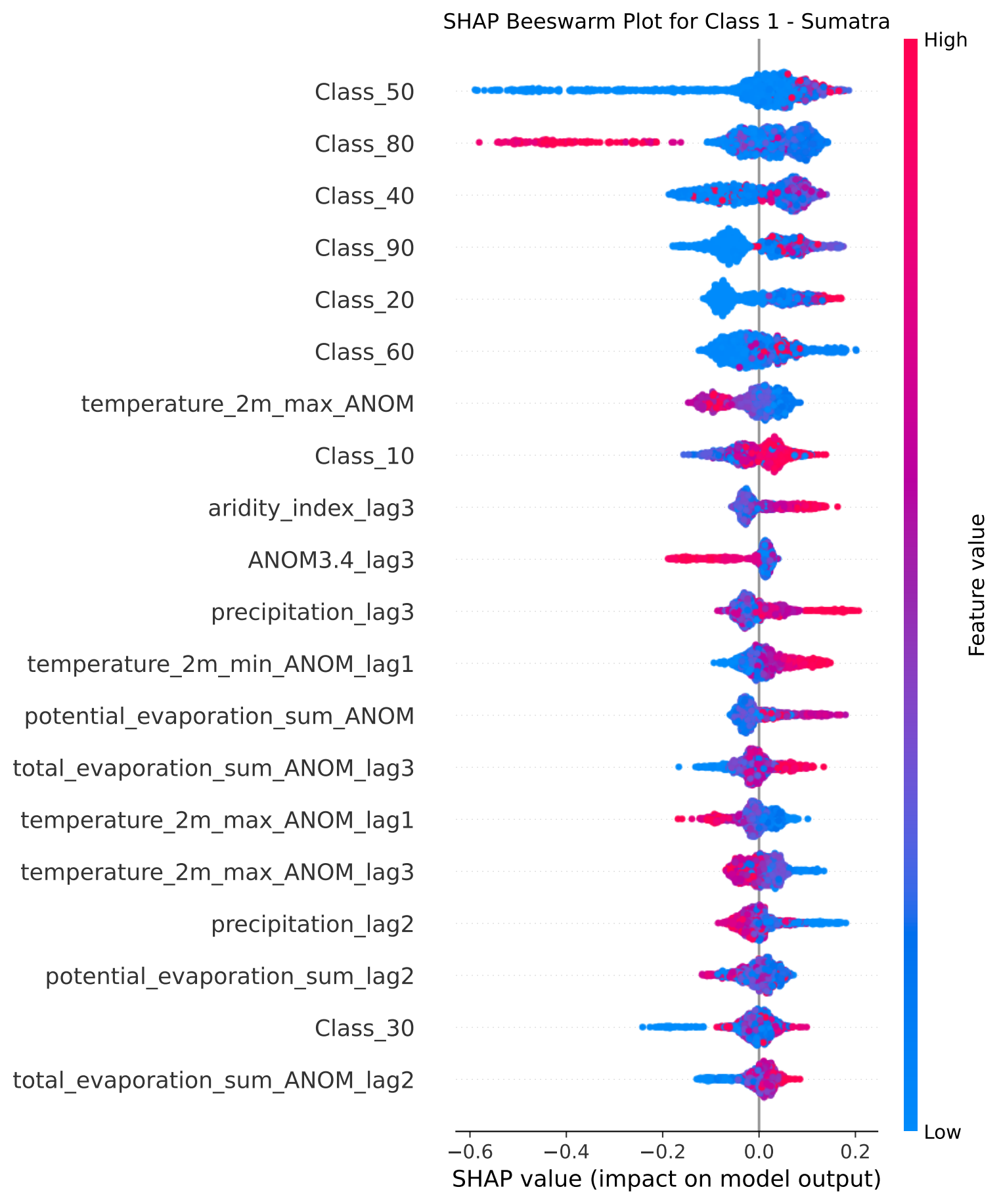
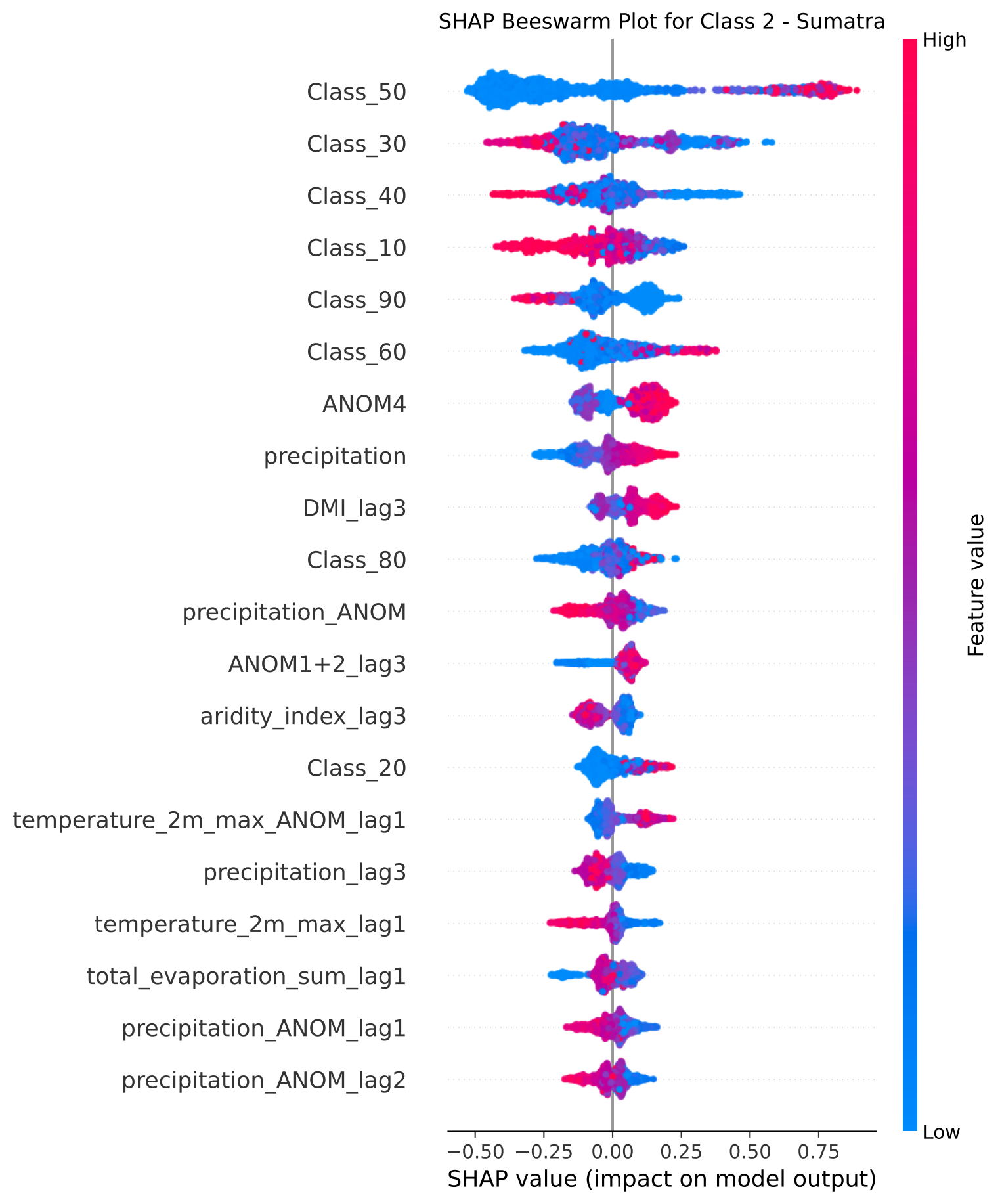
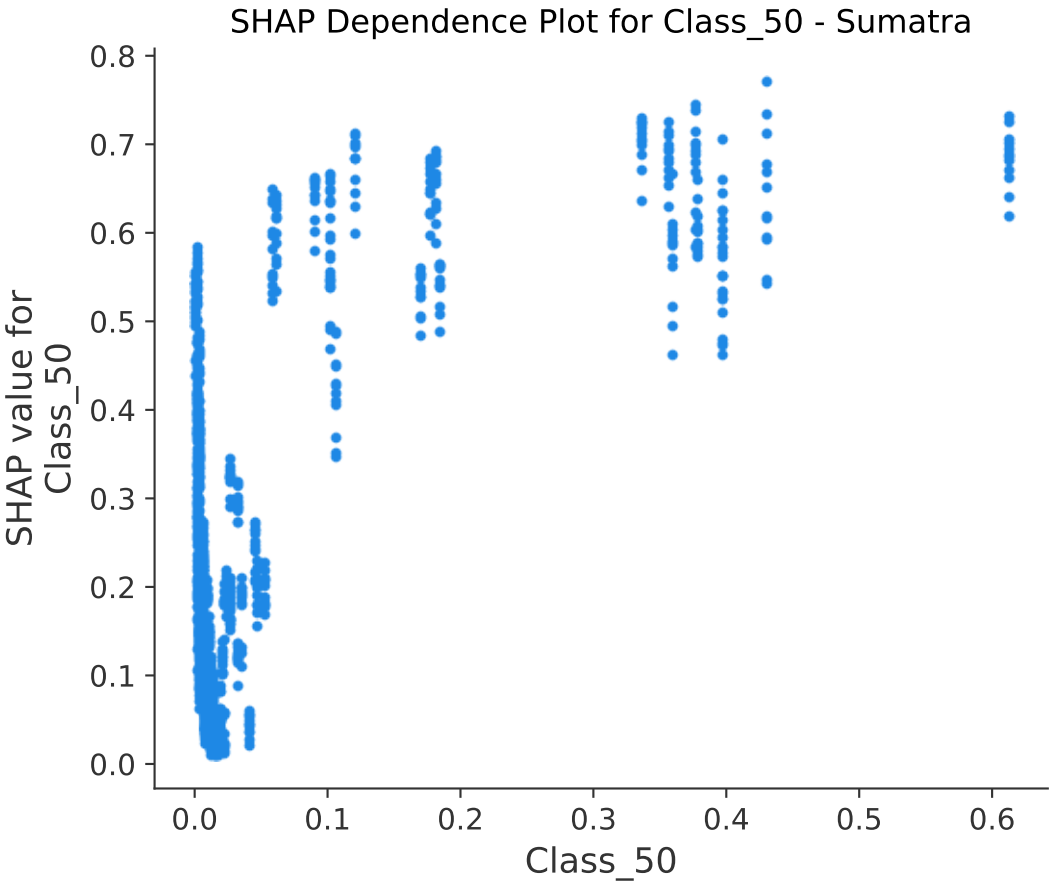
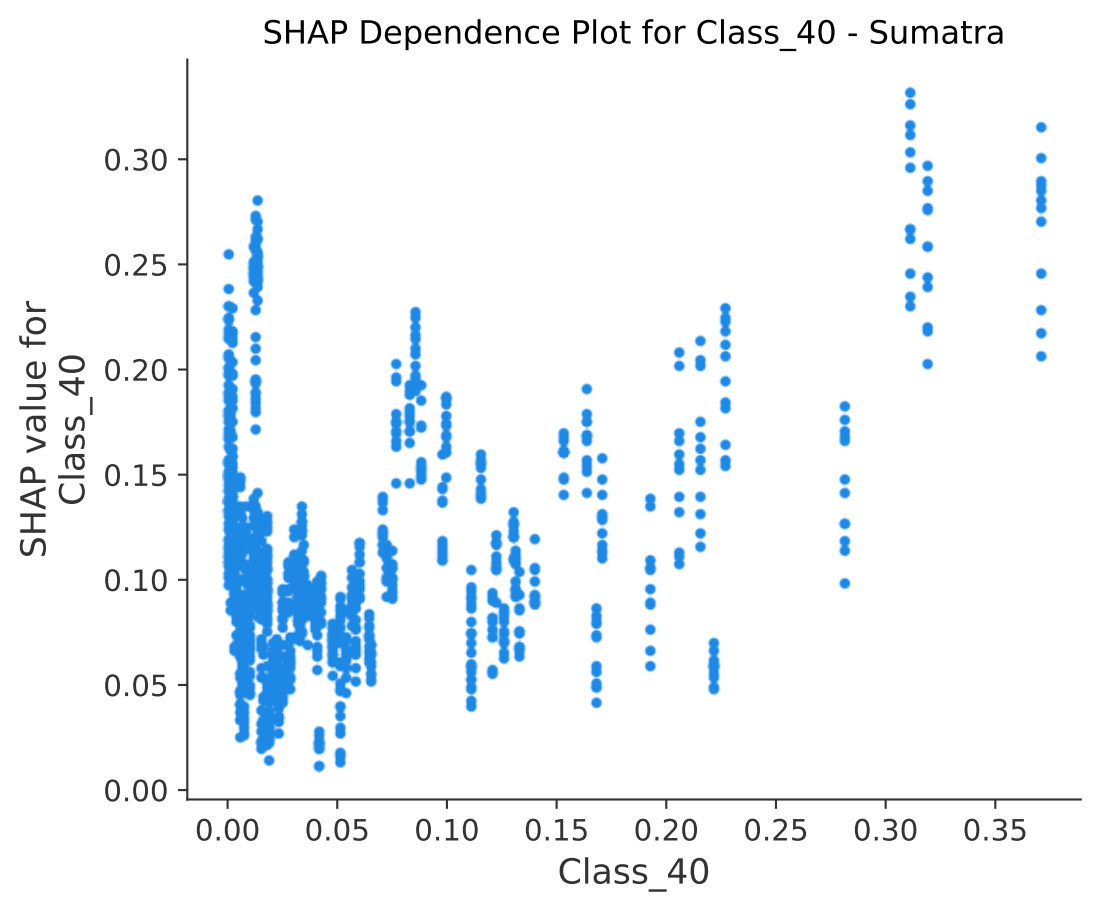

Confusion Matrix - Sumatra
401
164
168
143
101
101
111
45
122
True Label
0
1
2
Predicted Label
0
1
2
400
350
300
250
200
150
100
50

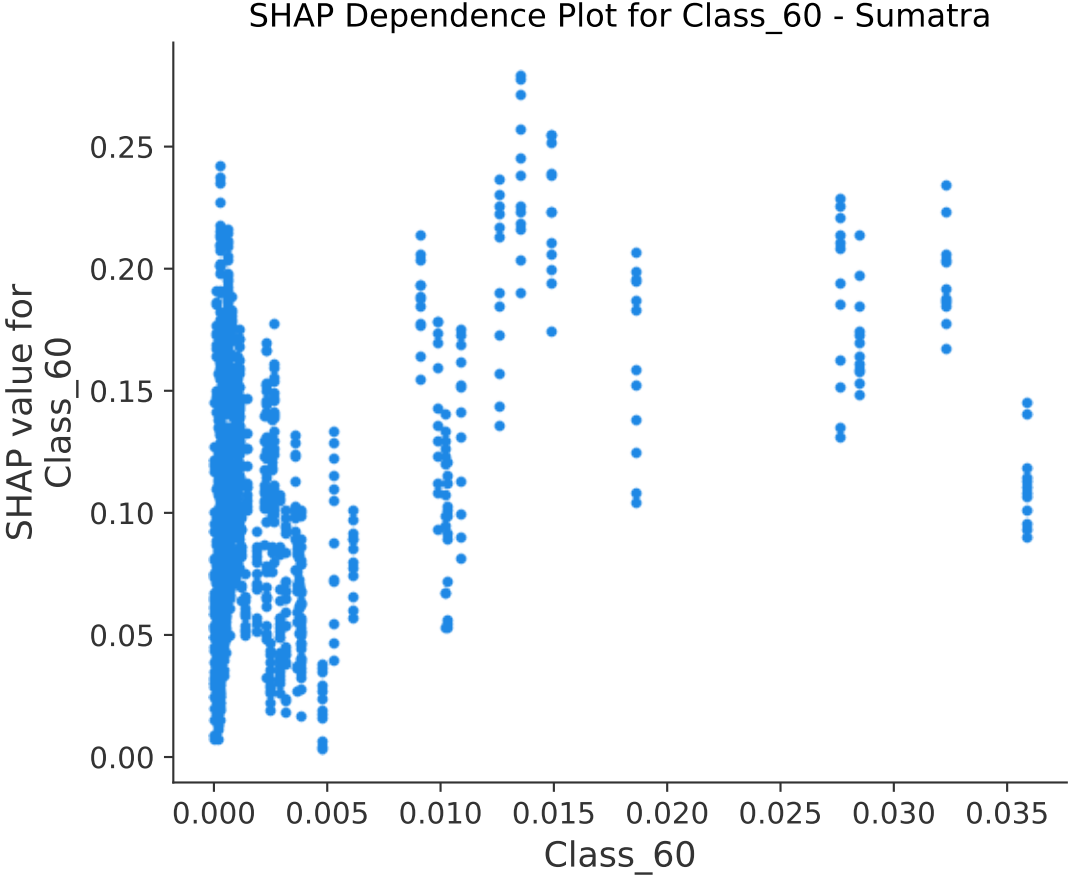

SHAP Beeswarm Plot for Class 0 - Sumatra
Class_50
Class_60
Class_40
ANOM4
Class_30
Class_80
Class_20
Class_10
Class_90
DMI_lag3
ANOM4_lag1
precipitation_ANOM_lag2
precipitation
ANOM3.4
temperature_2m_min_lag3
ANOM1+2_lag3
precipitation_ANOM
temperature_2m_max_lag1
temperature_2m_min_ANOM_lag1
ANOM4_lag3
−1.0
−0.5
0.0
0.5
SHAP value (impact on model output)
High
Feature value
Low

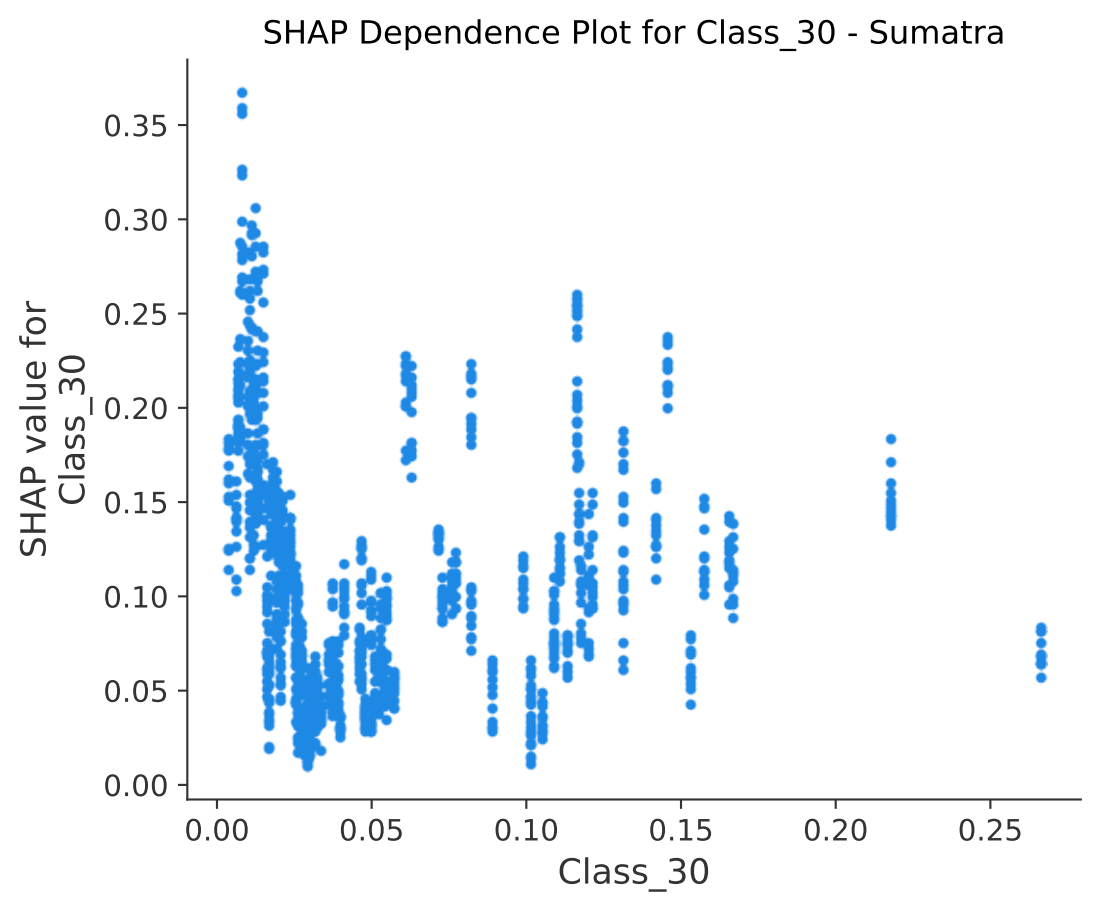

SHAP Beeswarm Plot for Class 1 - Sumatra
Class_50
Class_80
Class_40
Class_90
Class_20
Class_60
temperature_2m_max_ANOM
Class_10
aridity_index_lag3
ANOM3.4_lag3
precipitation_lag3
temperature_2m_min_ANOM_lag1
potential_evaporation_sum_ANOM
total_evaporation_sum_ANOM_lag3
temperature_2m_max_ANOM_lag1
temperature_2m_max_ANOM_lag3
precipitation_lag2
potential_evaporation_sum_lag2
Class_30
total_evaporation_sum_ANOM_lag2
−0.6
−0.4
−0.2
0.0
0.2
SHAP value (impact on model output)
High
Feature value
Low

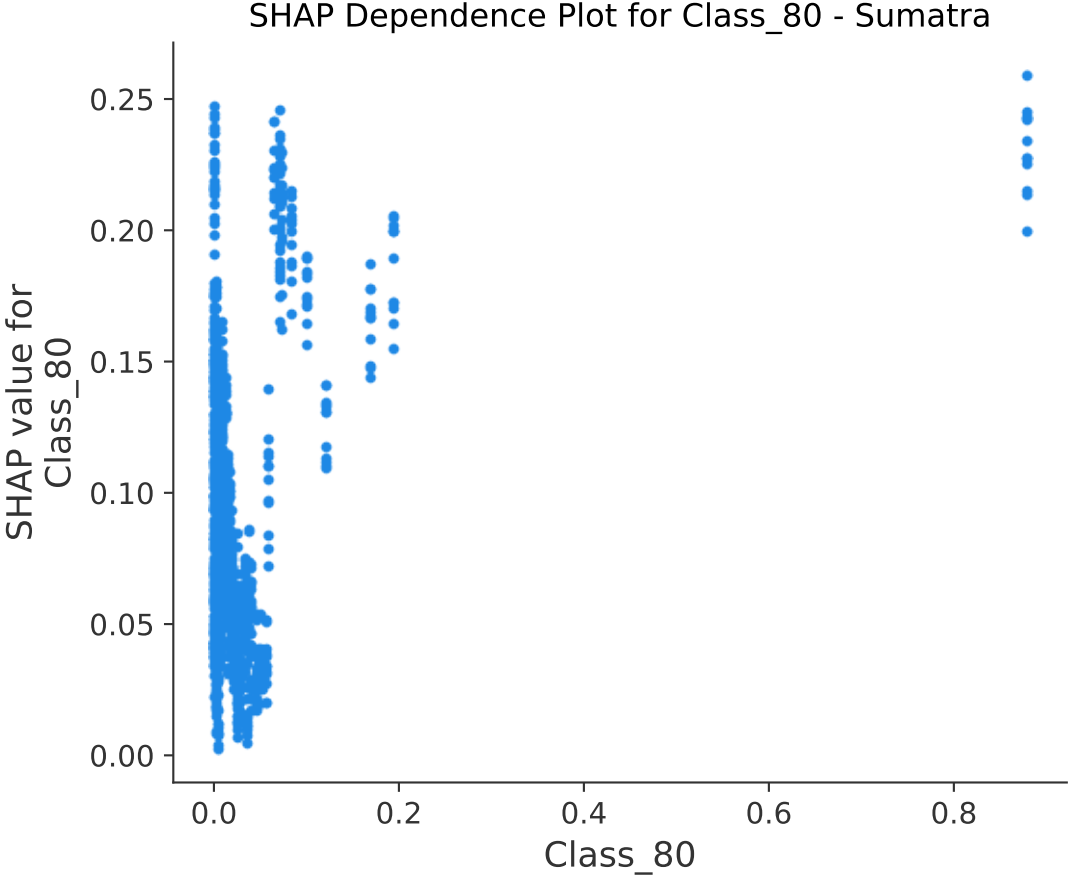

SHAP Beeswarm Plot for Class 2 - Sumatra
Class_50
Class_30
Class_40
Class_10
Class_90
Class_60
ANOM4
precipitation
DMI_lag3
Class_80
precipitation_ANOM
ANOM1+2_lag3
aridity_index_lag3
Class_20
temperature_2m_max_ANOM_lag1
precipitation_lag3
temperature_2m_max_lag1
total_evaporation_sum_lag1
precipitation_ANOM_lag1
precipitation_ANOM_lag2
−0.50 −0.25 0.00 0.25 0.50 0.75
SHAP value (impact on model output)
High
Feature value
Low

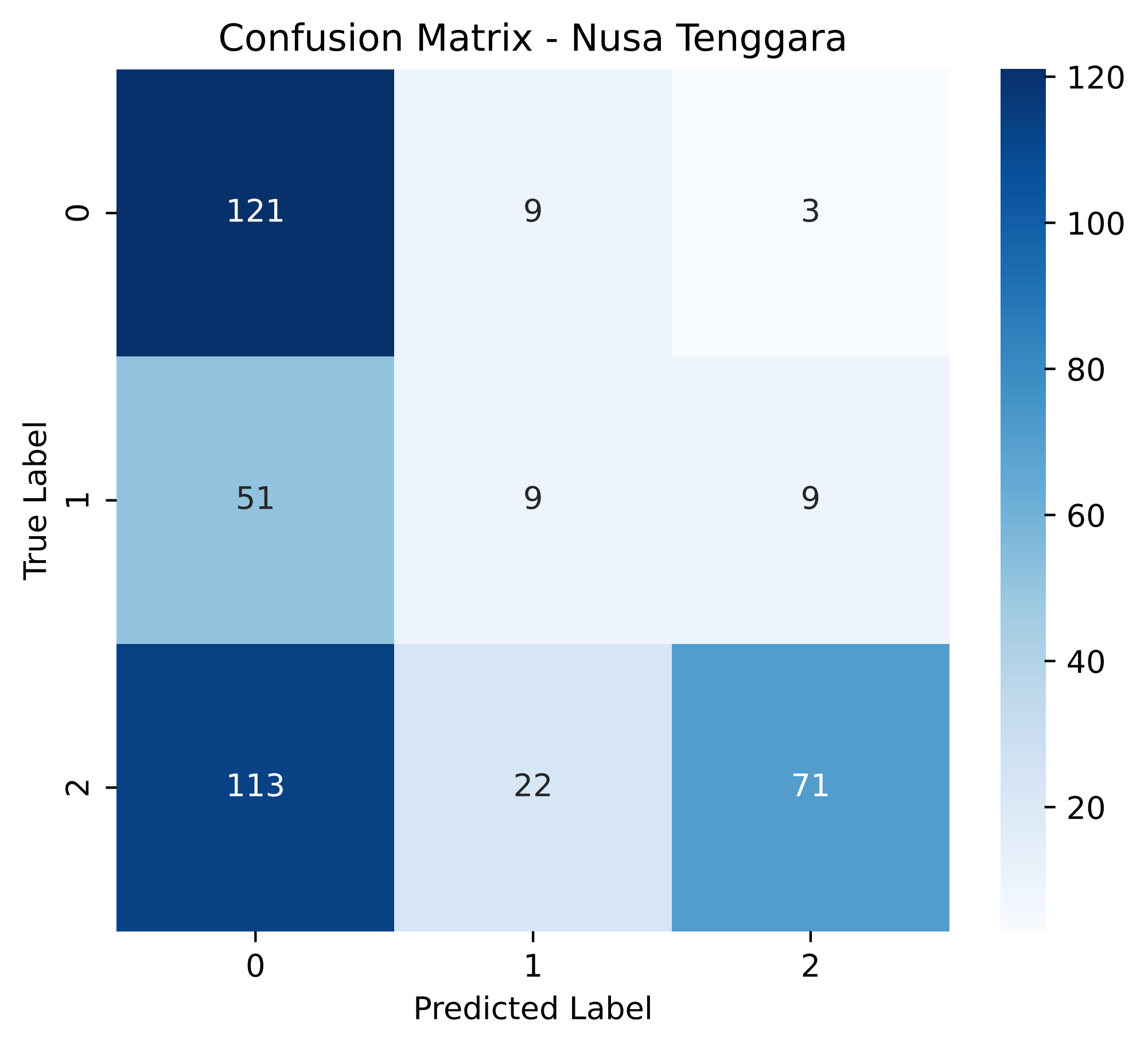

SHAP Dependence Plot for Class_50 - Sumatra
SHAP value for Class_50
Class_50
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

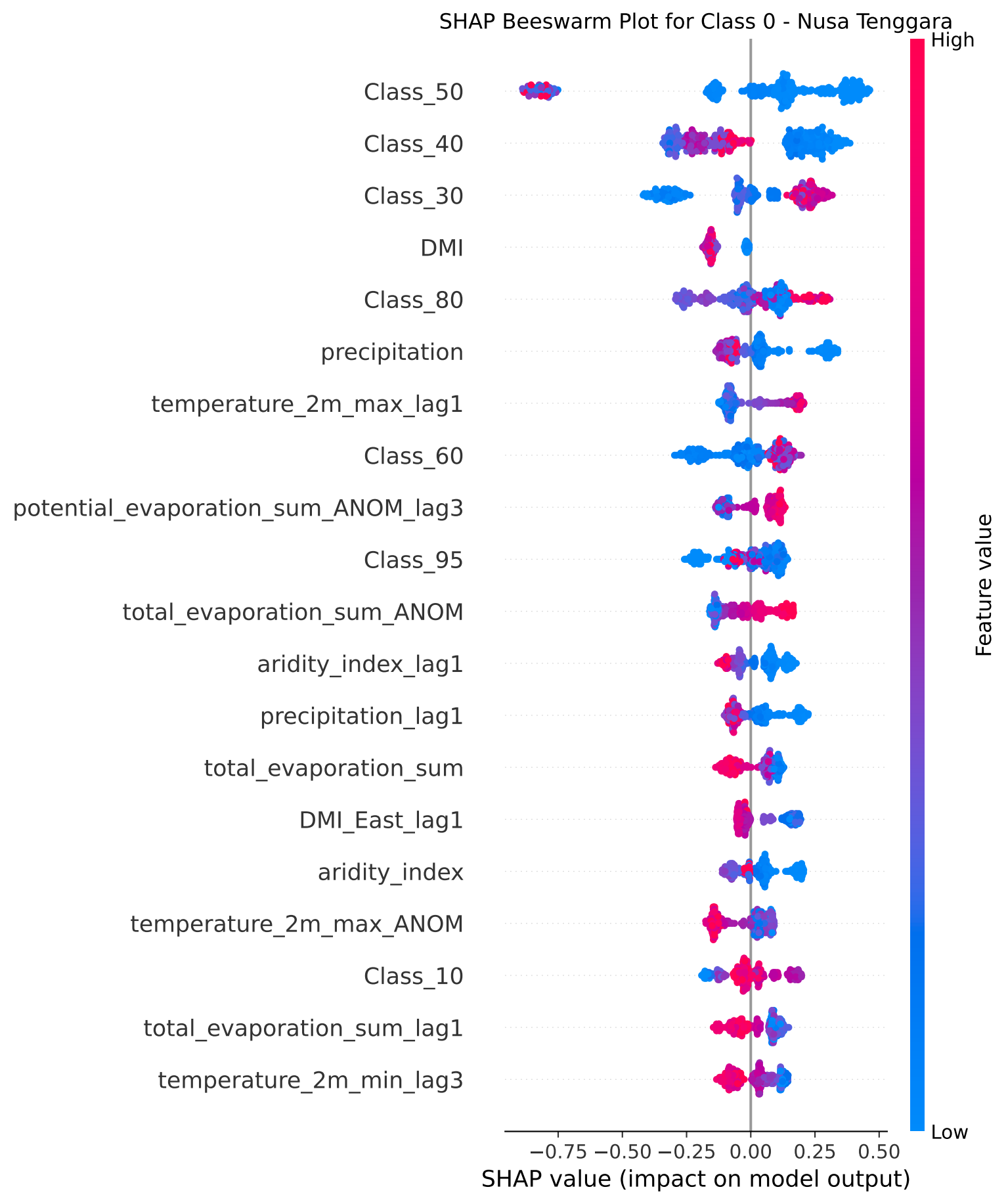

SHAP Dependence Plot for Class_40 - Sumatra
SHAP value for Class_40
Class_40
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35

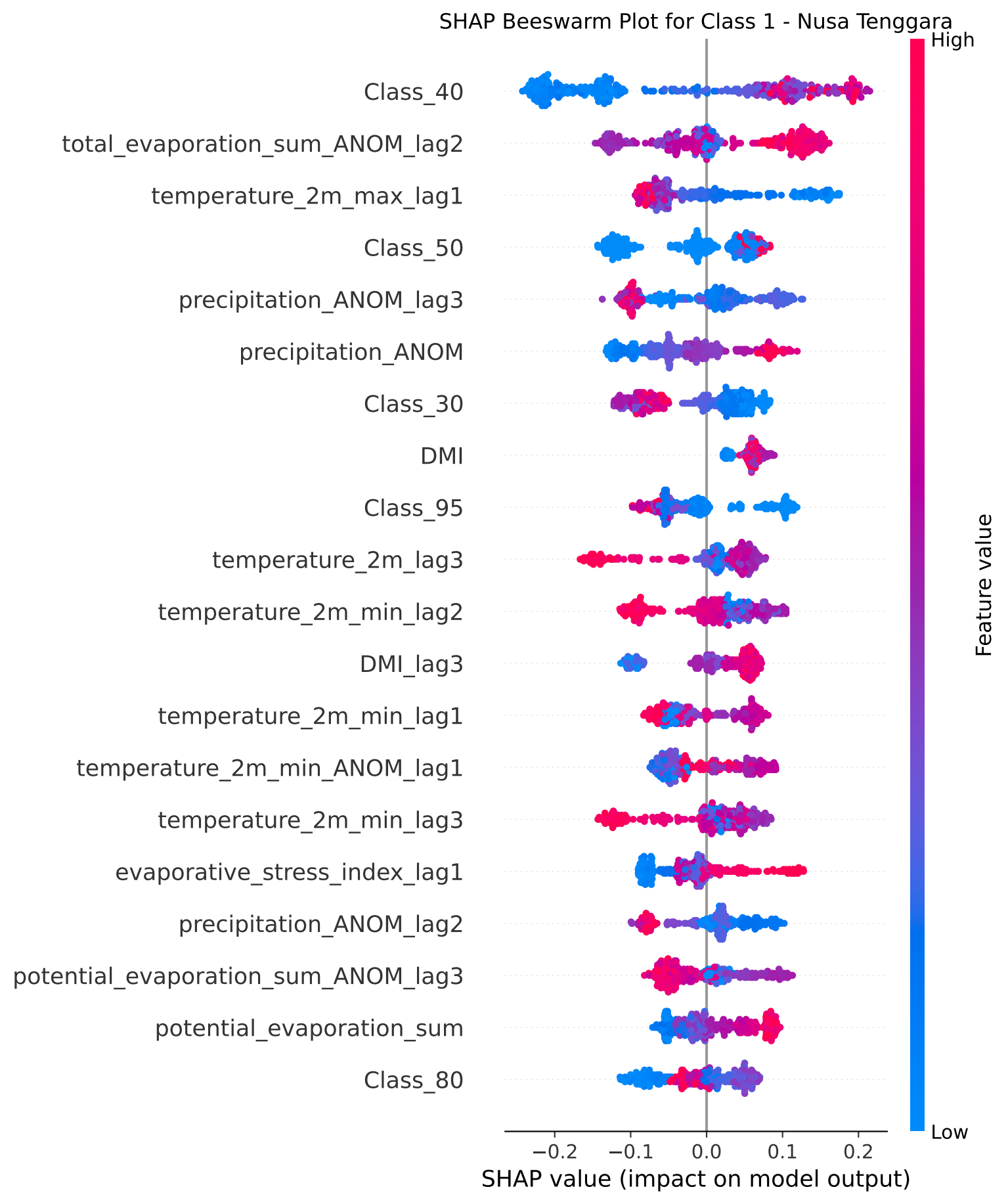

SHAP Dependence Plot for Class_60 - Sumatra
SHAP value for Class_60
0.25
0.20
0.15
0.10
0.05
0.00
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
Class_60

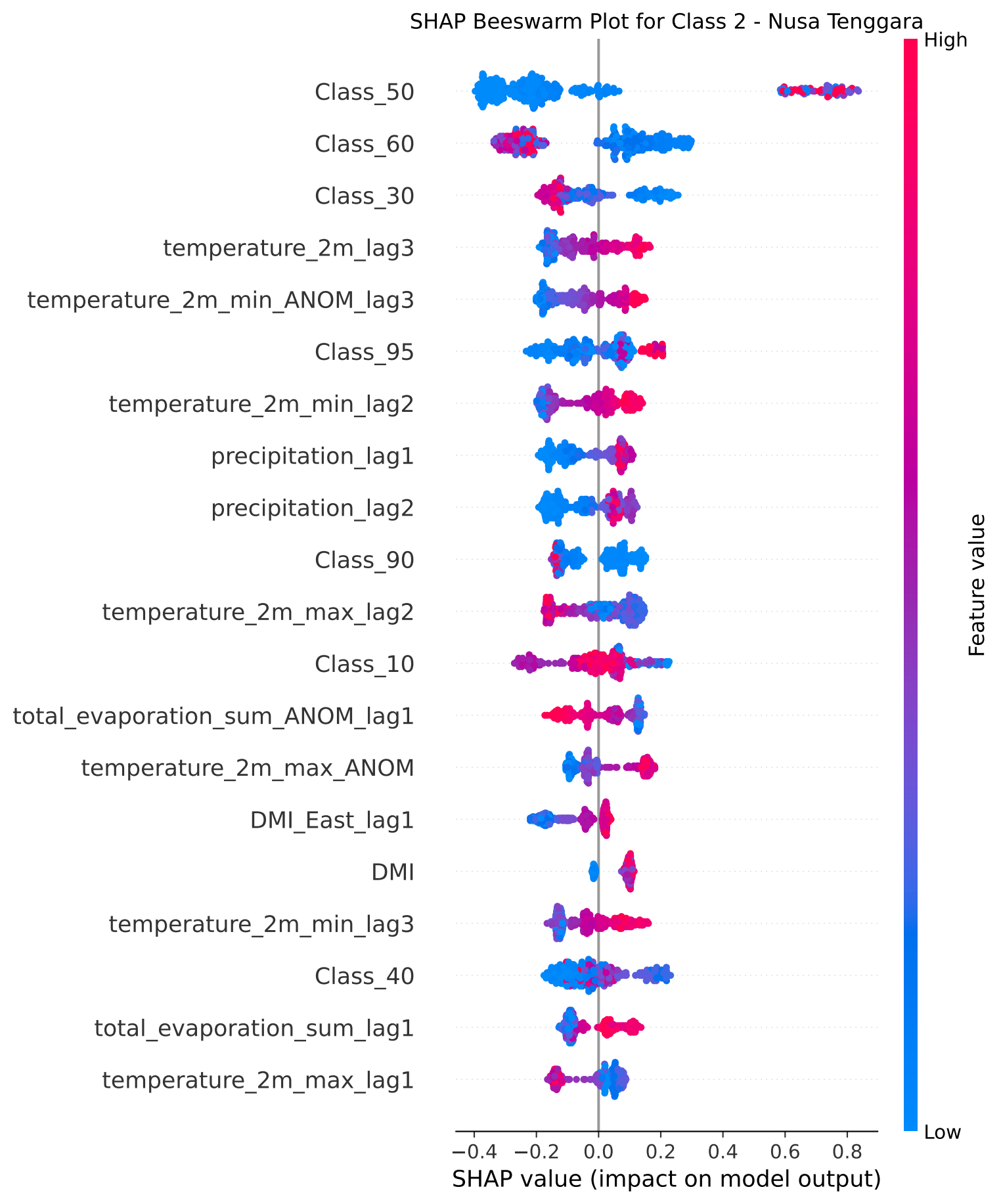

SHAP Dependence Plot for Class_30 - Sumatra
SHAP value for Class_30
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.00
0.05
0.10
0.15
0.20
0.25
Class_30

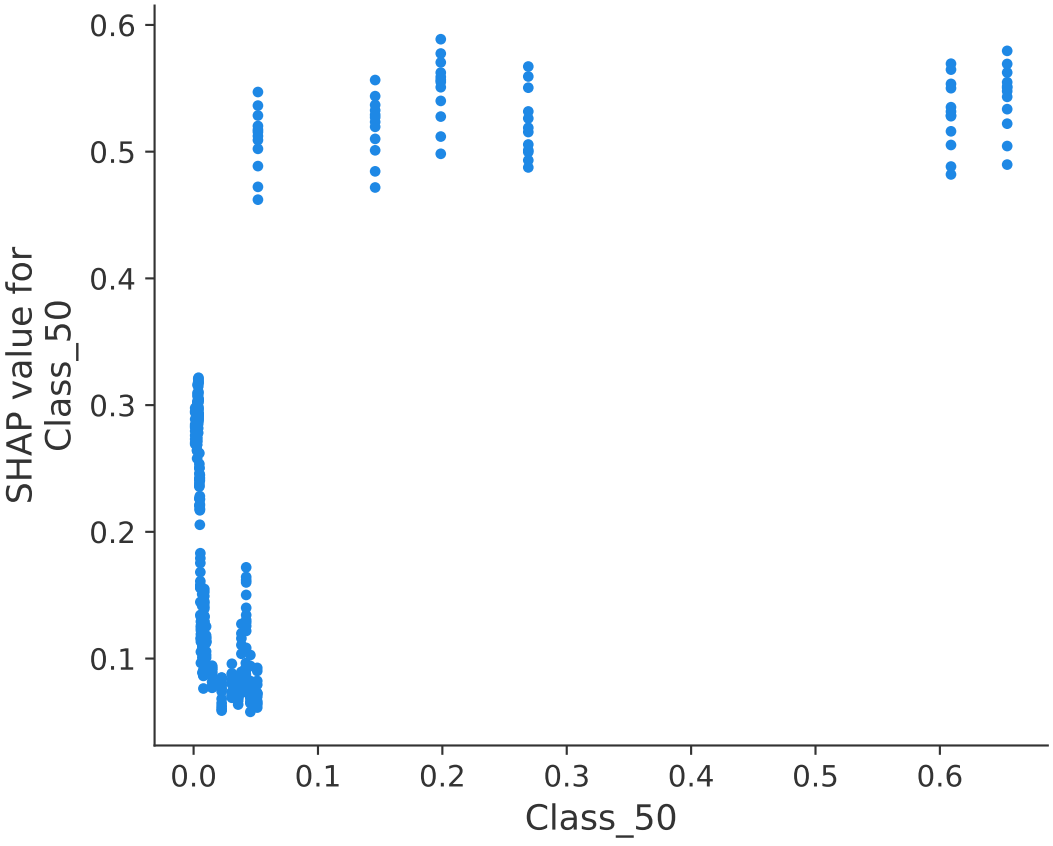

SHAP Dependence Plot for Class_80 - Sumatra
SHAP value for Class_80
Class_80
0.25
0.20
0.15
0.10
0.05
0.00
0.0
0.2
0.4
0.6
0.8

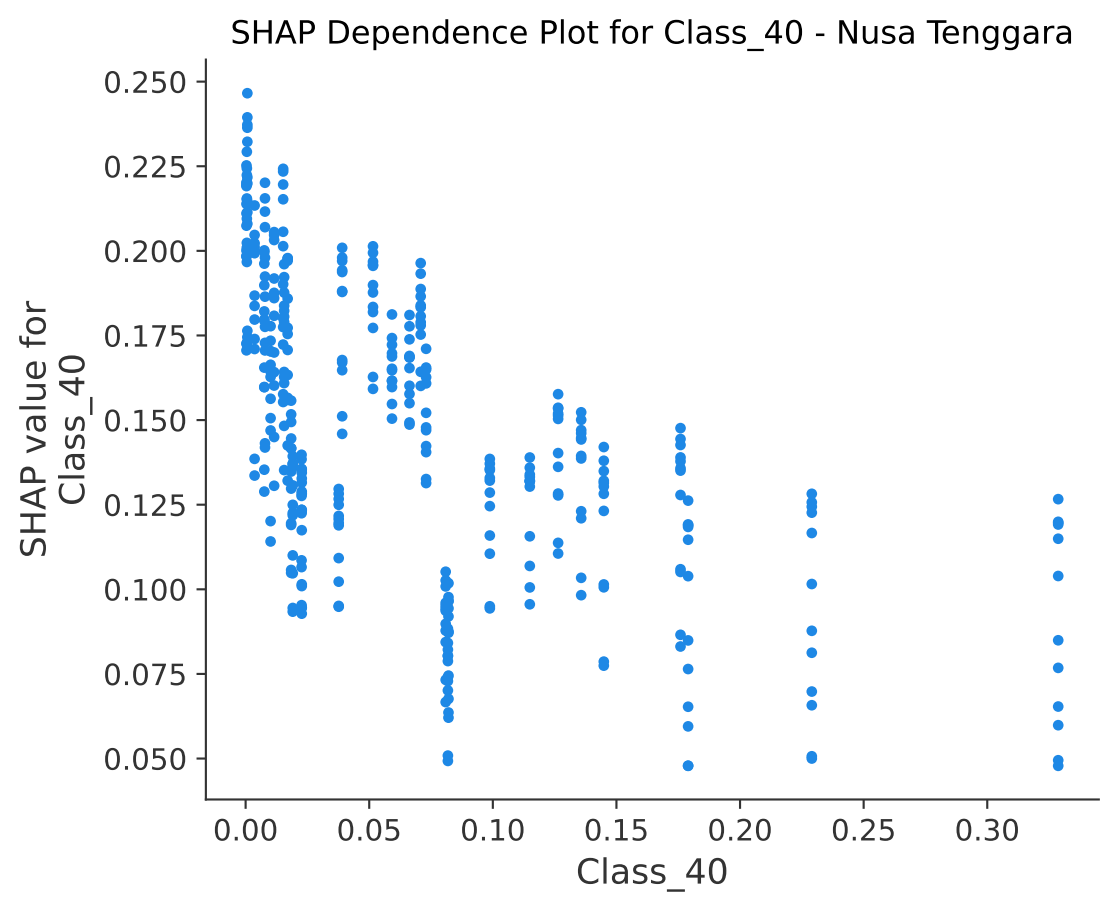

Confusion Matrix - Nusa Tenggara
121
9
3
51
9
9
113
22
71
0
1
2
True Label
0
1
2
Predicted Label
120
100
80
60
40
20

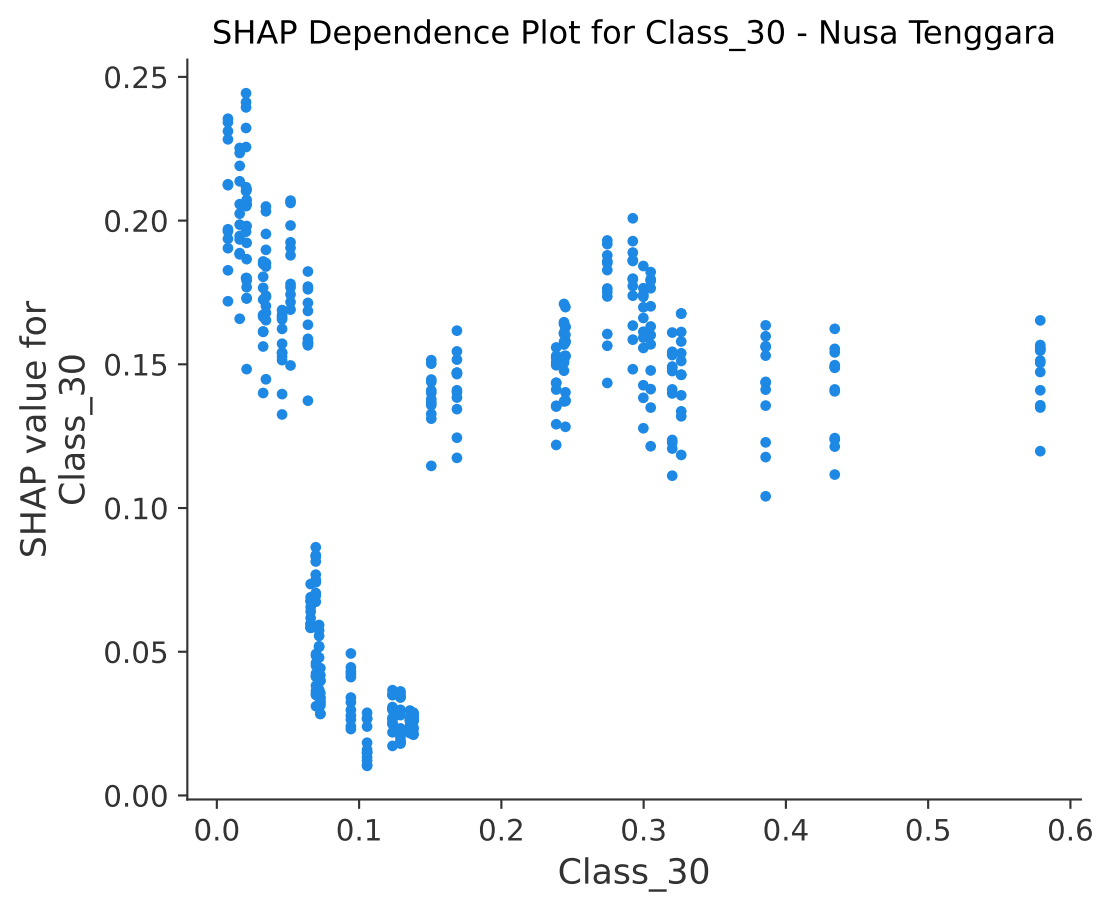

SHAP Beeswarm Plot for Class 0 - Nusa Tenggara
Class_50
Class_40
Class_30
DMI
Class_80
precipitation
temperature_2m_max_lag1
Class_60
potential_evaporation_sum_ANOM_lag3
Class_95
total_evaporation_sum_ANOM
aridity_index_lag1
precipitation_lag1
total_evaporation_sum
DMI_East_lag1
aridity_index
temperature_2m_max_ANOM
Class_10
total_evaporation_sum_lag1
temperature_2m_min_lag3
−0.75 −0.50 −0.25 0.00 0.25 0.50
SHAP value (impact on model output)
High
Feature value
Low

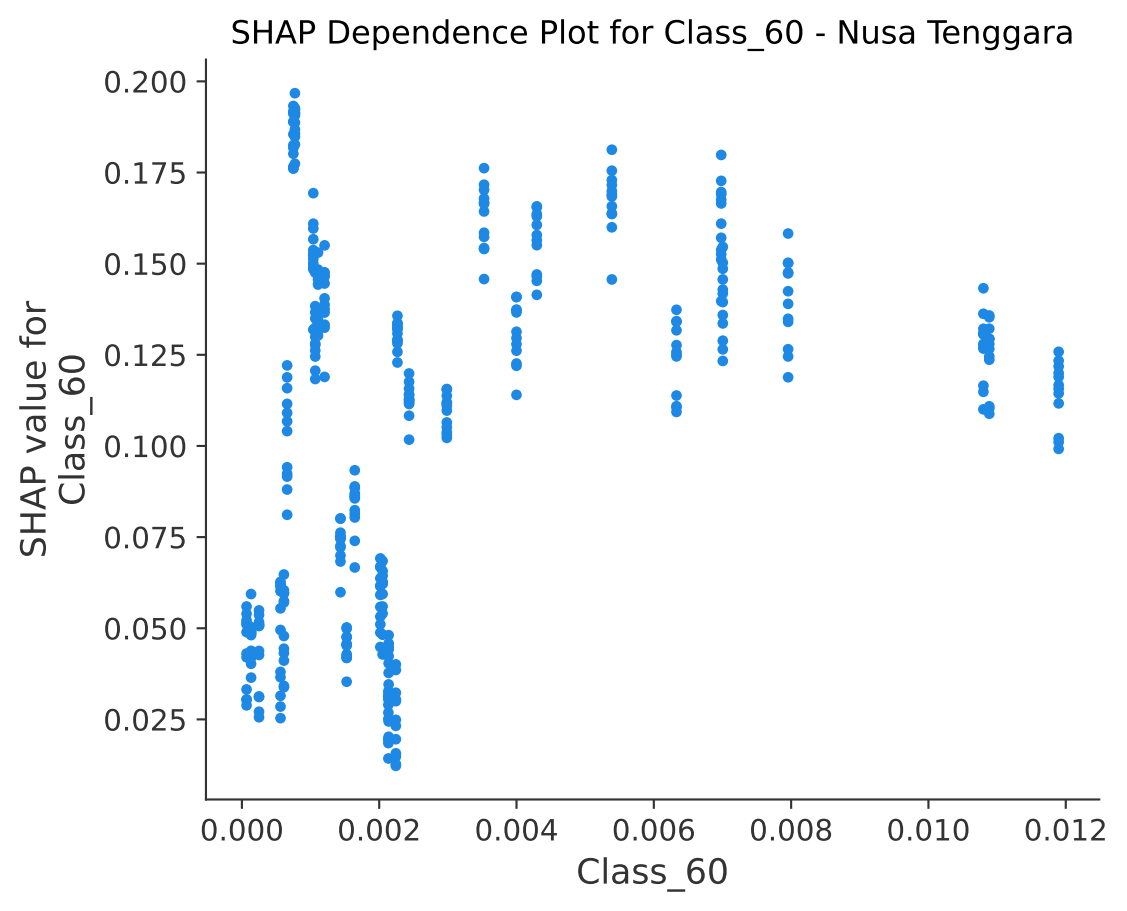

SHAP Beeswarm Plot for Class 1 - Nusa Tenggara
Class_40
total_evaporation_sum_ANOM_lag2
temperature_2m_max_lag1
Class_50
precipitation_ANOM_lag3
precipitation_ANOM
Class_30
DMI
Class_95
temperature_2m_lag3
temperature_2m_min_lag2
DMI_lag3
temperature_2m_min_lag1
temperature_2m_min_ANOM_lag1
temperature_2m_min_lag3
evaporative_stress_index_lag1
precipitation_ANOM_lag2
potential_evaporation_sum_ANOM_lag3
potential_evaporation_sum
Class_80
−0.2
−0.1
0.0
0.1
0.2
SHAP value (impact on model output)
High
Low
Feature value

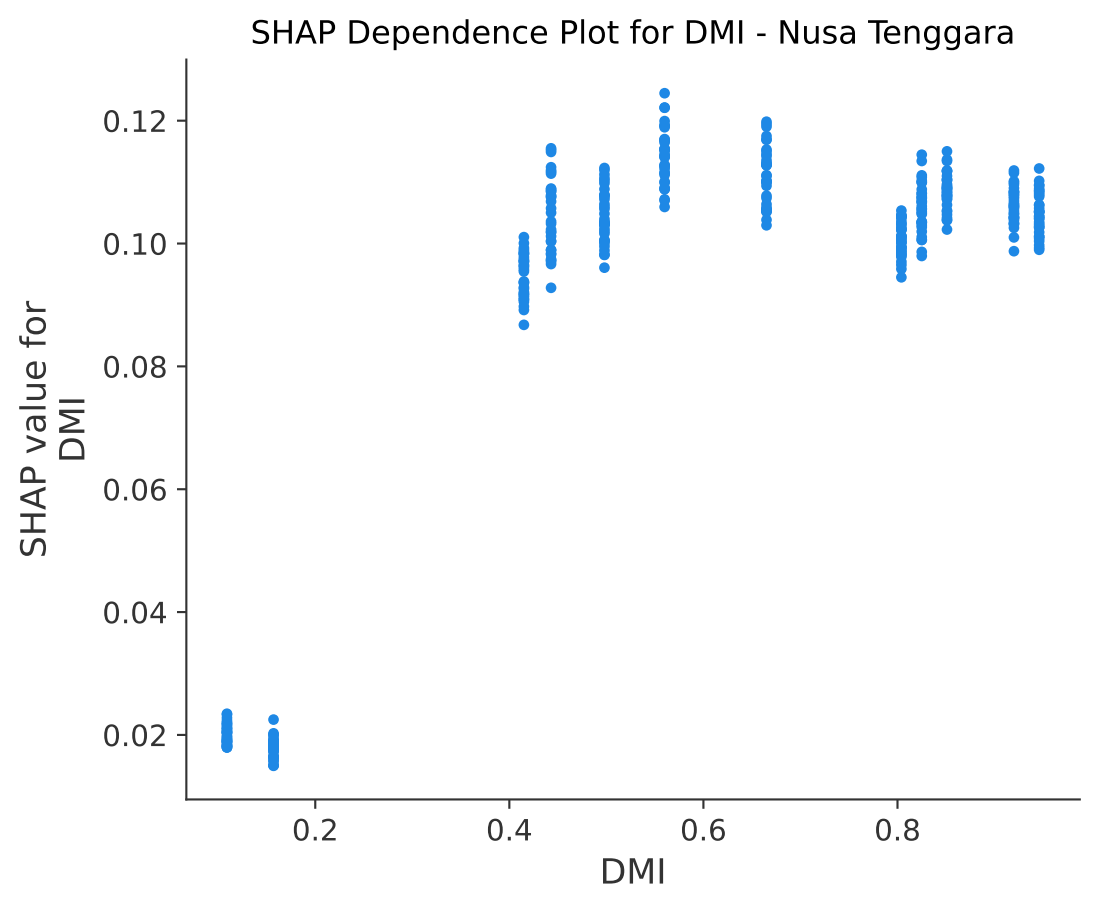

SHAP Beeswarm Plot for Class 2 - Nusa Tenggara
Class_50
Class_60
Class_30
temperature_2m_lag3
temperature_2m_min_ANOM_lag3
Class_95
temperature_2m_min_lag2
precipitation_lag1
precipitation_lag2
Class_90
temperature_2m_max_lag2
Class_10
total_evaporation_sum_ANOM_lag1
temperature_2m_max_ANOM
DMI_East_lag1
DMI
temperature_2m_min_lag3
Class_40
total_evaporation_sum_lag1
temperature_2m_max_lag1
−0.4
−0.2
0.0
0.2
0.4
0.6
0.8
SHAP value (impact on model output)
High
Low
Feature value

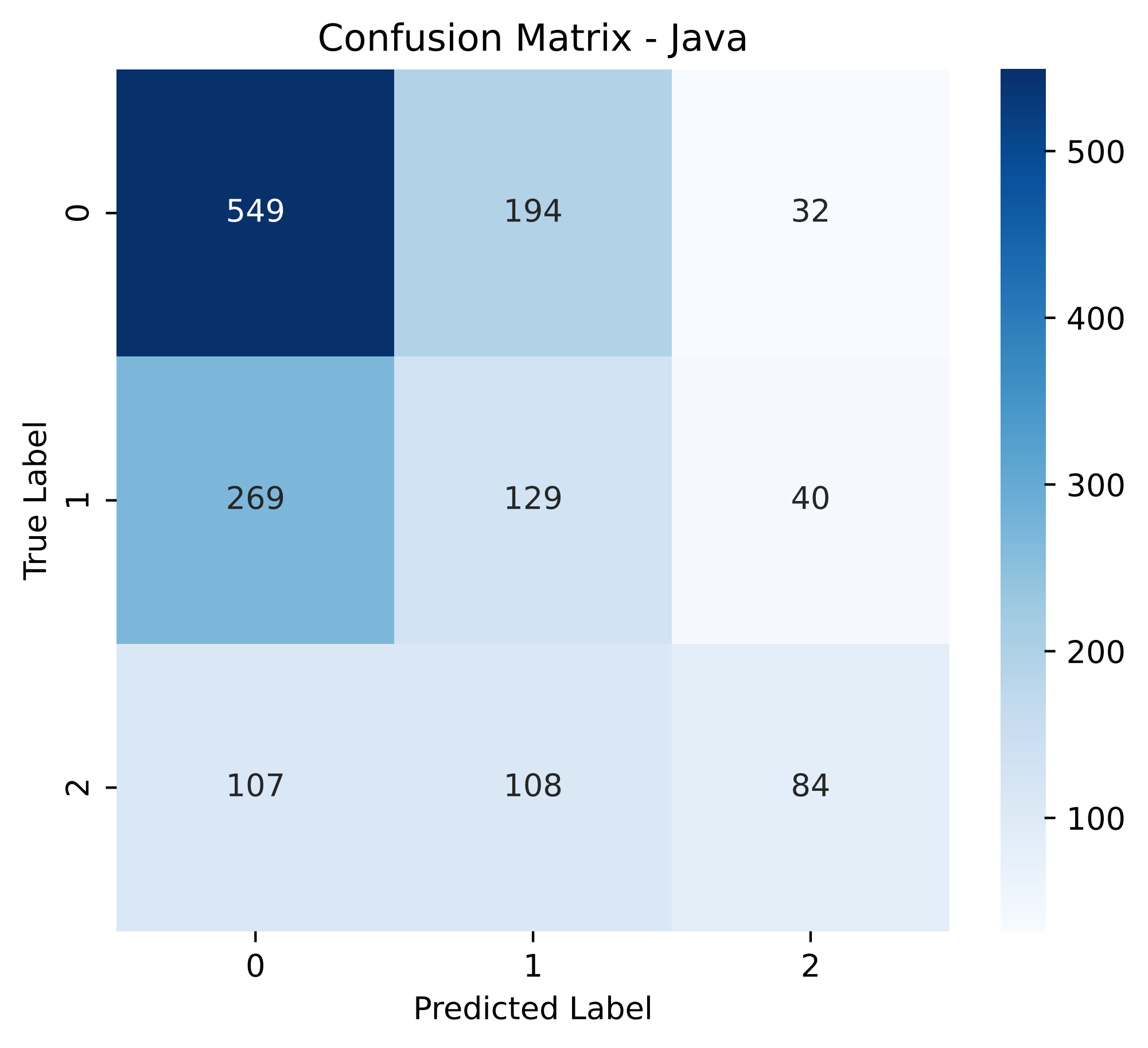

SHAP Dependence Plot for Class_50 - Nusa Tenggara
SHAP value for Class_50
Class_50
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.1
0.2
0.3
0.4
0.5
0.6

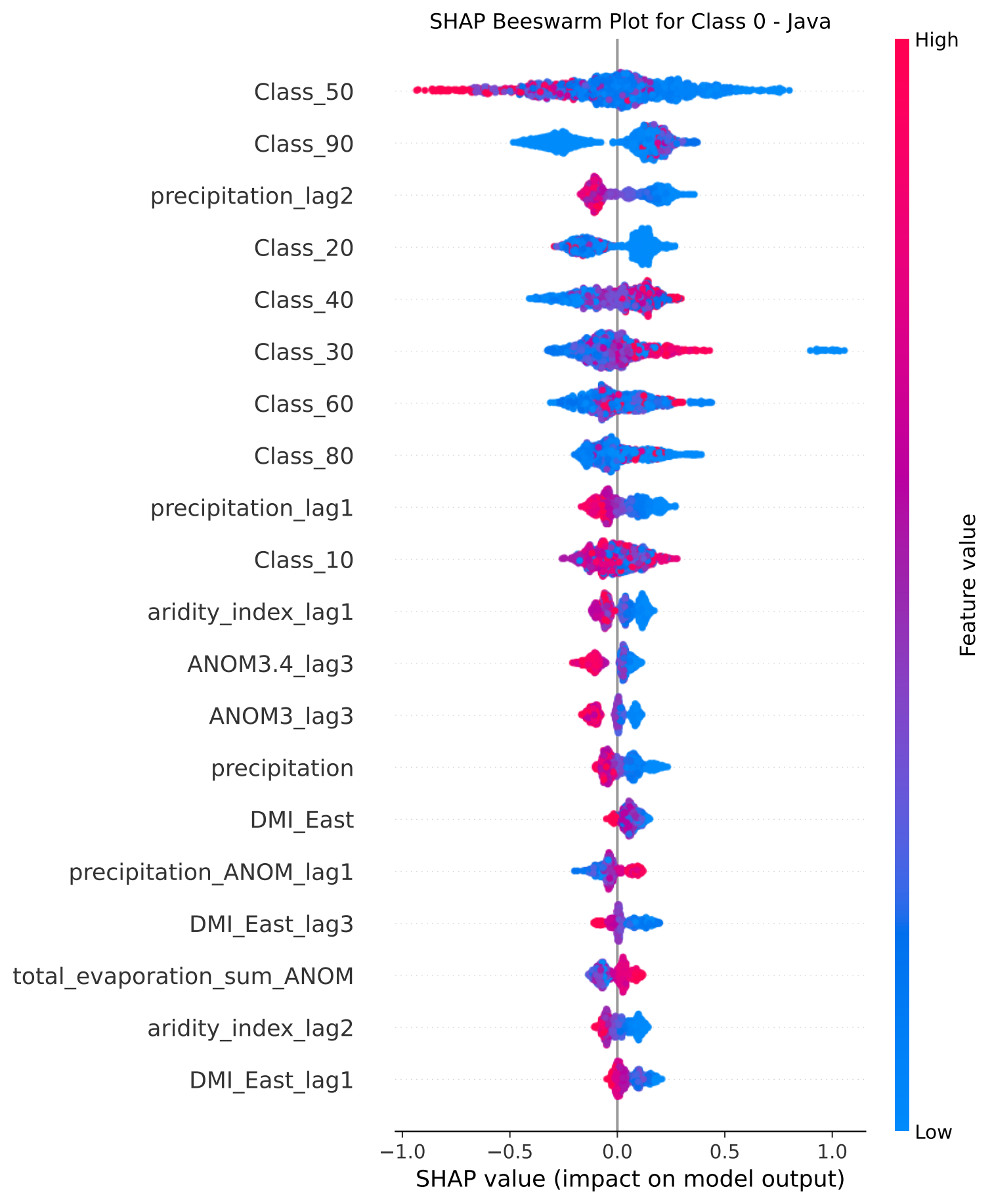

SHAP Dependence Plot for Class_40 - Nusa Tenggara
SHAP value for Class_40
Class_40
0.250
0.225
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.00
0.05
0.10
0.15
0.20
0.25
0.30

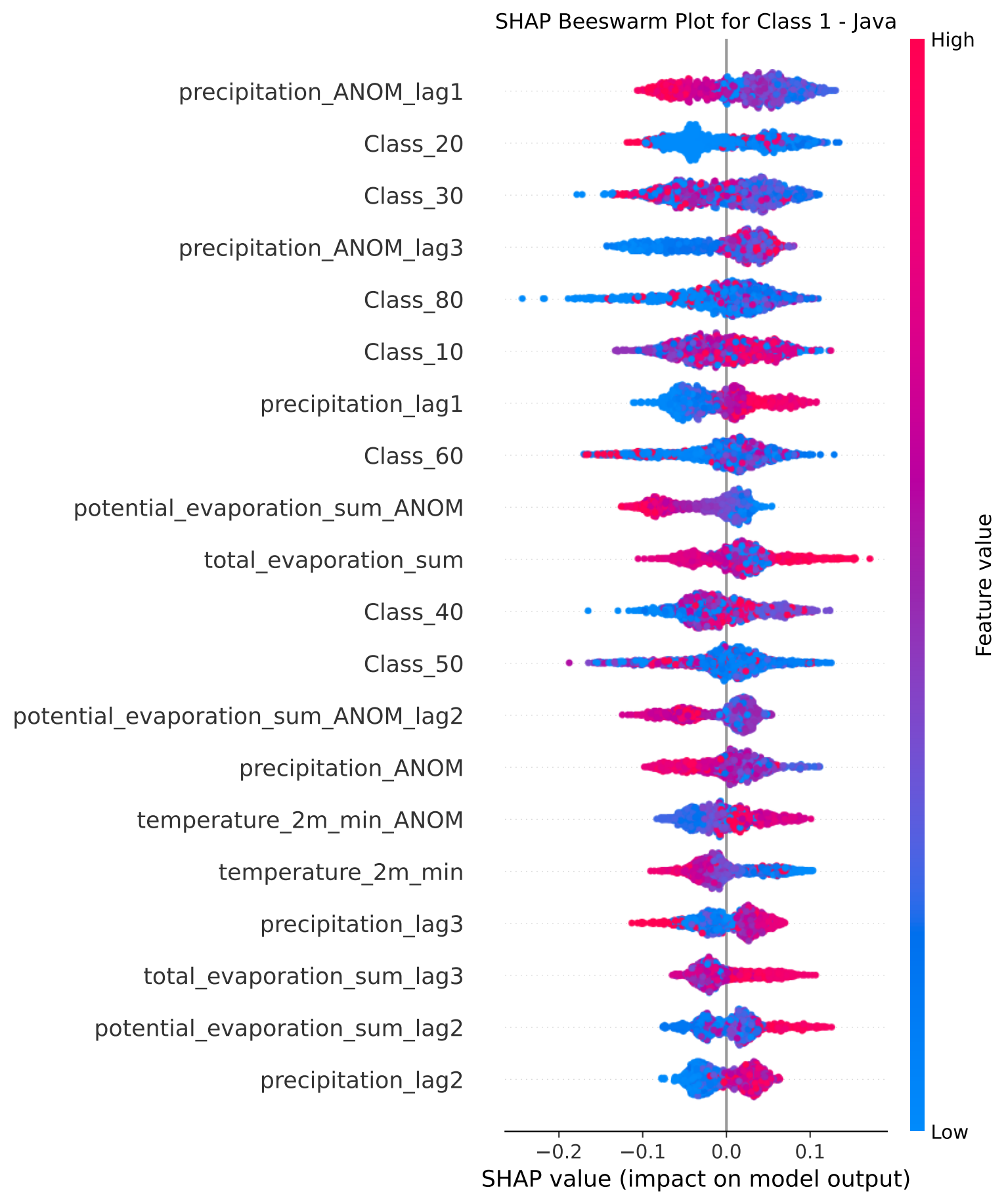

SHAP Dependence Plot for Class_30 - Nusa Tenggara
SHAP value for Class_30
Class_30
0.25
0.20
0.15
0.10
0.05
0.00
0.0
0.1
0.2
0.3
0.4
0.5
0.6


SHAP Dependence Plot for Class_60 - Nusa Tenggara
SHAP value for Class_60
Class_60
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.002
0.004
0.006
0.008
0.010
0.012

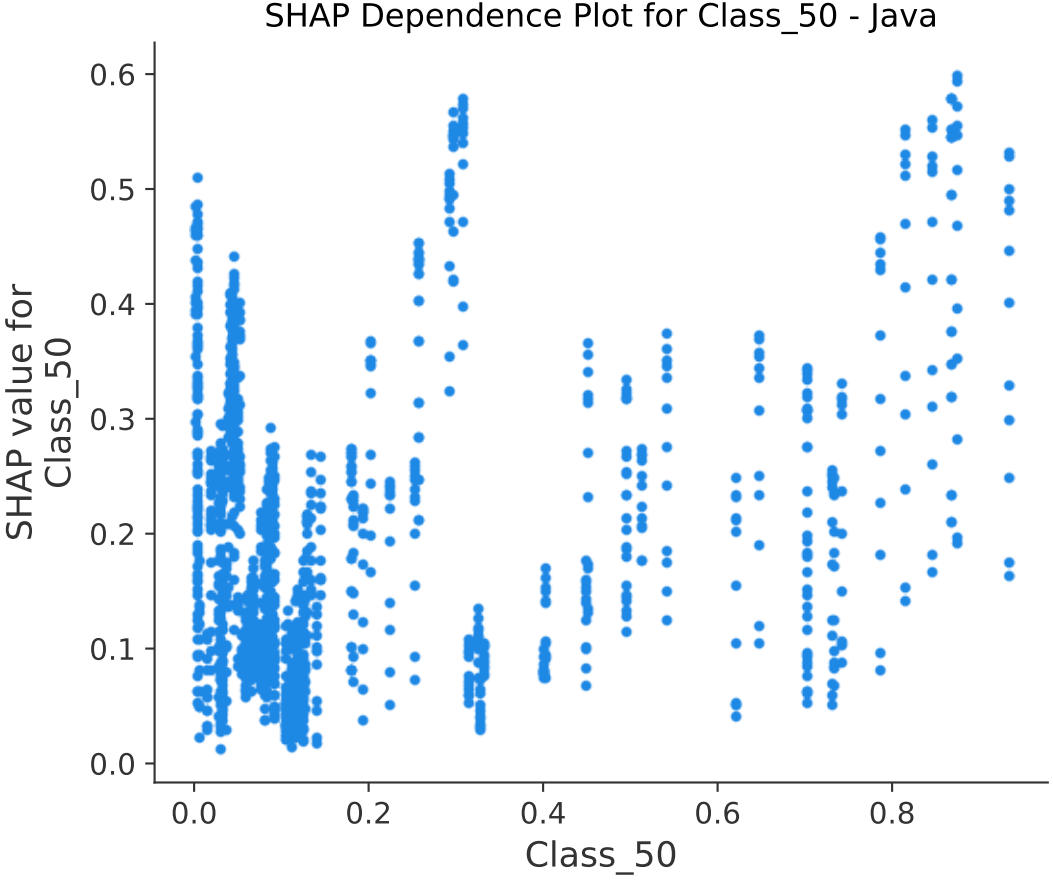

SHAP Dependence Plot for DMI - Nusa Tenggara
SHAP value for DMI
0.12
0.10
0.08
0.06
0.04
0.02
0.2
0.4
0.6
0.8
DMI

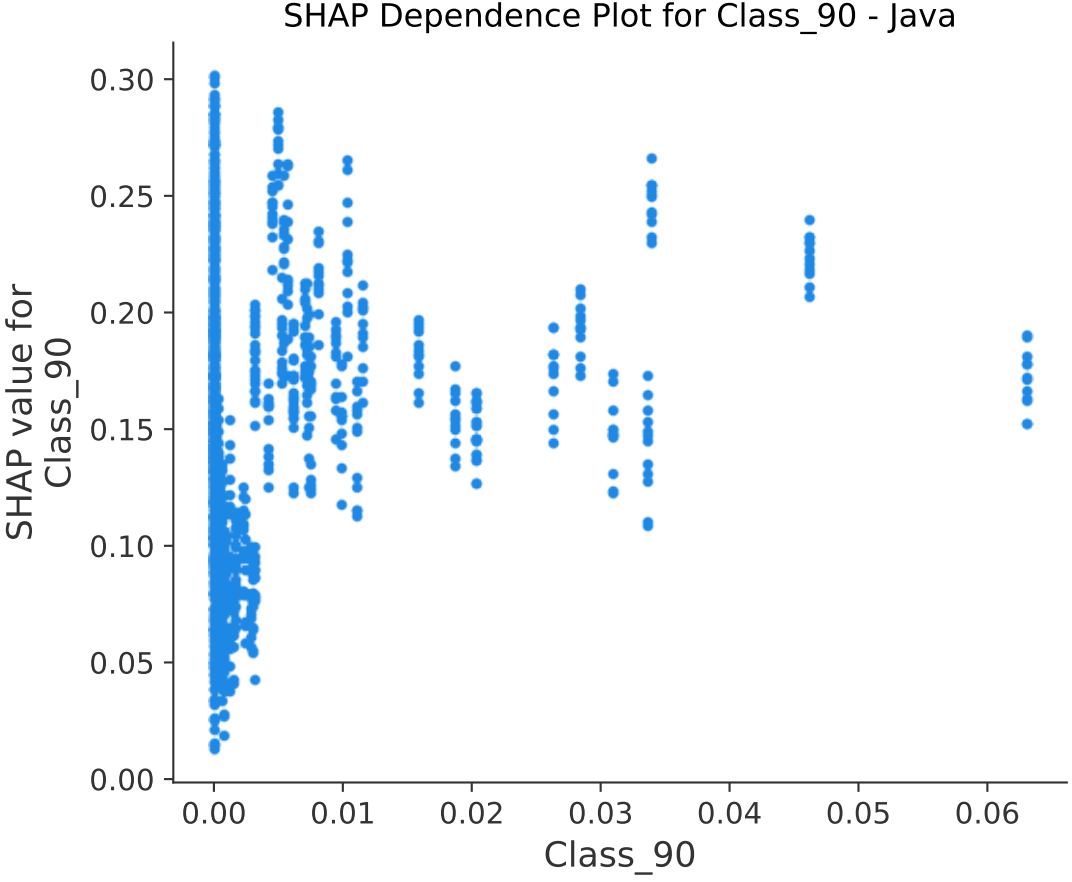

Confusion Matrix - Java
549
194
32
269
129
40
107
108
84
0
1
2
True Label
0
1
2
Predicted Label
500
400
300
200
100

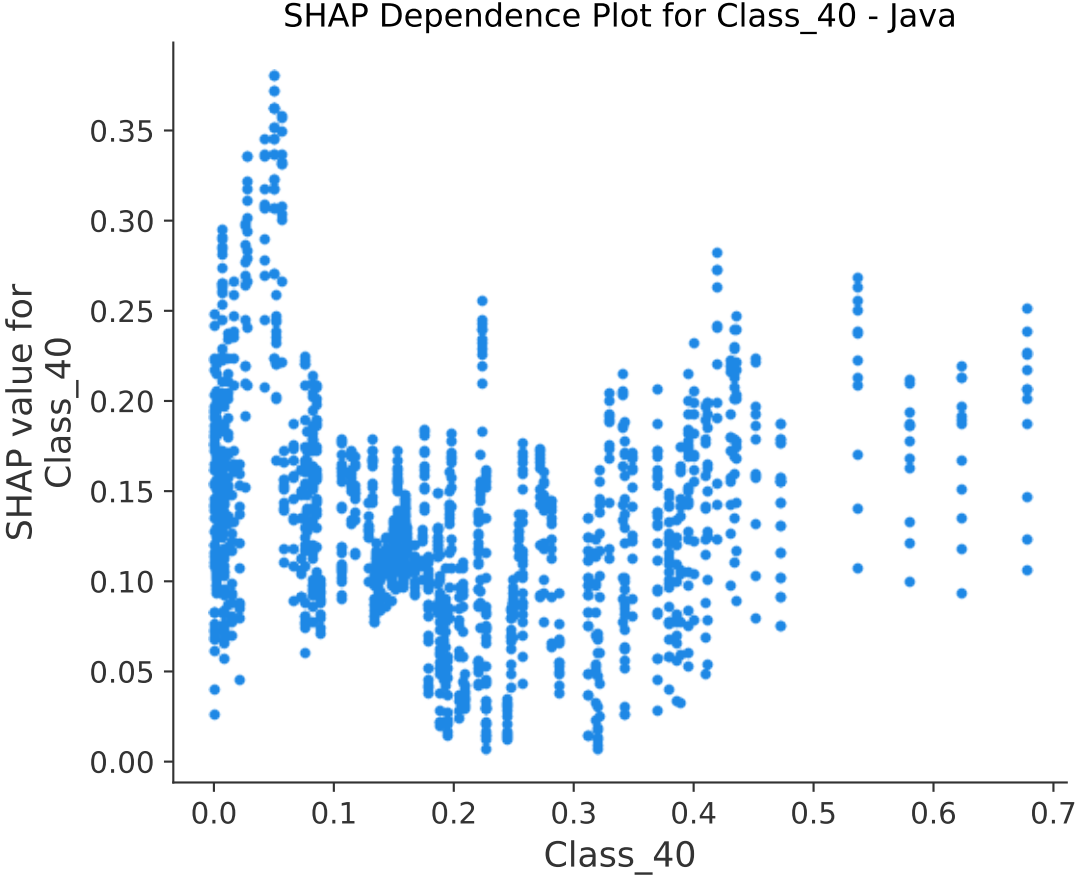

SHAP Beeswarm Plot for Class 0 - Java
Class_50
Class_90
precipitation_lag2
Class_20
Class_40
Class_30
Class_60
Class_80
precipitation_lag1
Class_10
aridity_index_lag1
ANOM3.4_lag3
ANOM3_lag3
precipitation
DMI_East
precipitation_ANOM_lag1
DMI_East_lag3
total_evaporation_sum_ANOM
aridity_index_lag2
DMI_East_lag1
−1.0
−0.5
0.0
0.5
1.0
SHAP value (impact on model output)
High
Low
Feature value

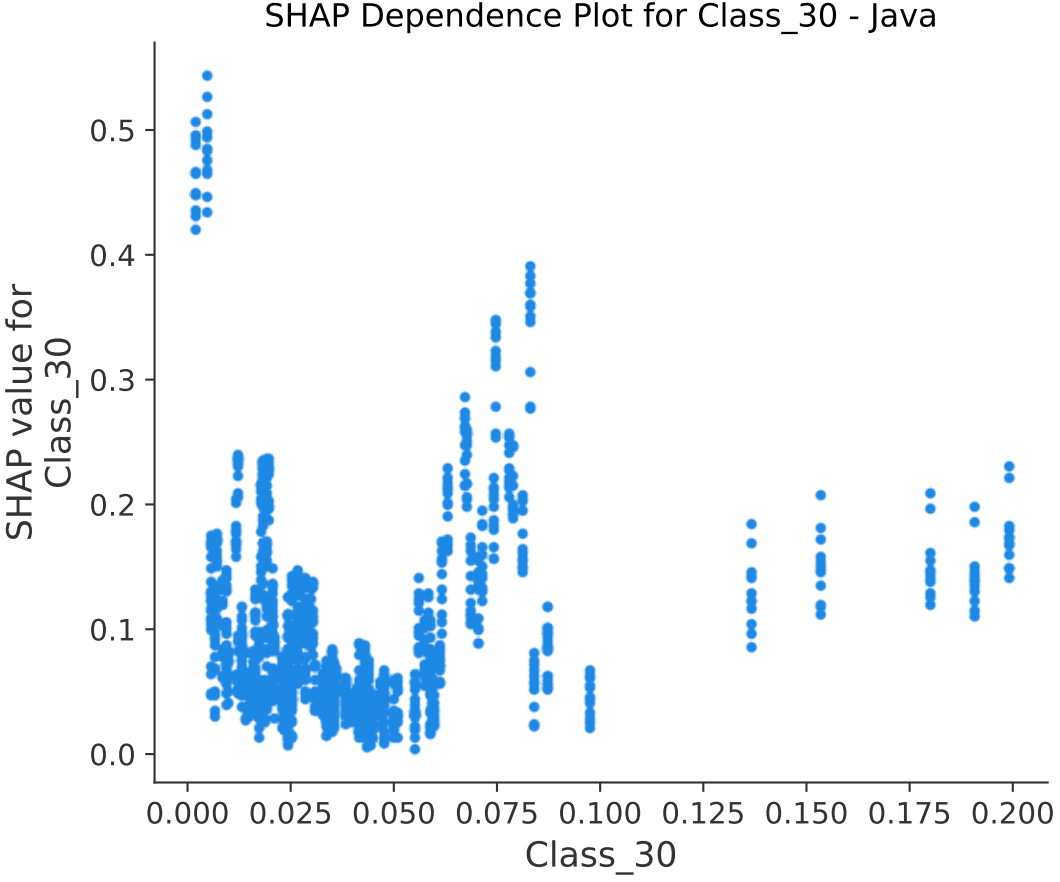

SHAP Beeswarm Plot for Class 1 - Java
precipitation_ANOM_lag1
Class_20
Class_30
precipitation_ANOM_lag3
Class_80
Class_10
precipitation_lag1
Class_60
potential_evaporation_sum_ANOM
total_evaporation_sum
Class_40
Class_50
potential_evaporation_sum_ANOM_lag2
precipitation_ANOM
temperature_2m_min_ANOM
temperature_2m_min
precipitation_lag3
total_evaporation_sum_lag3
potential_evaporation_sum_lag2
precipitation_lag2
−0.2
−0.1
0.0
0.1
SHAP value (impact on model output)
High
Feature value
Low

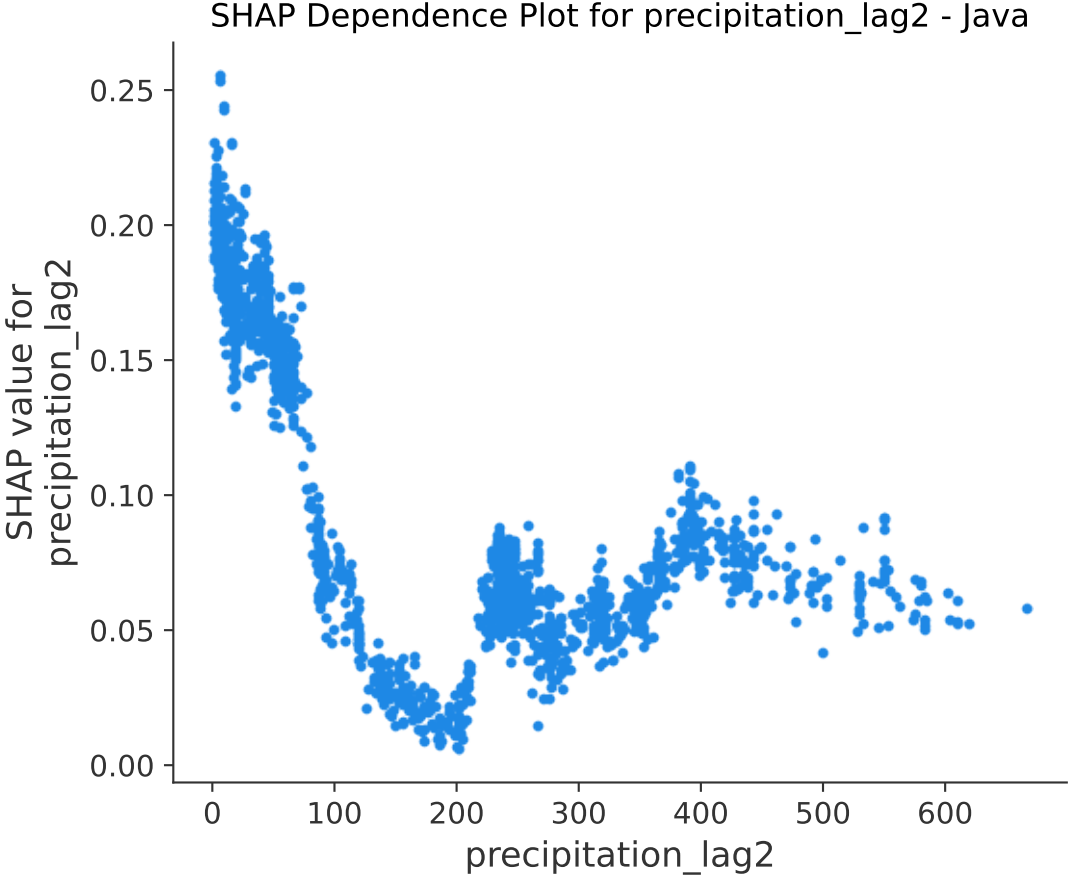

SHAP Beeswarm Plot for Class 2 - Java
Class_50
Class_40
Class_90
DMI_East
Class_30
precipitation_lag2
Class_10
Class_60
DMI_East_lag1
Class_80
ANOM3.4_lag3
Class_20
aridity_index_lag1
precipitation_lag1
aridity_index_lag2
ANOM4
DMI_lag2
temperature_2m_max_lag3
ANOM4_lag2
DMI
−0.75 −0.50 −0.25 0.00 0.25 0.50 0.75 1.00
SHAP value (impact on model output)
High
Feature value
Low

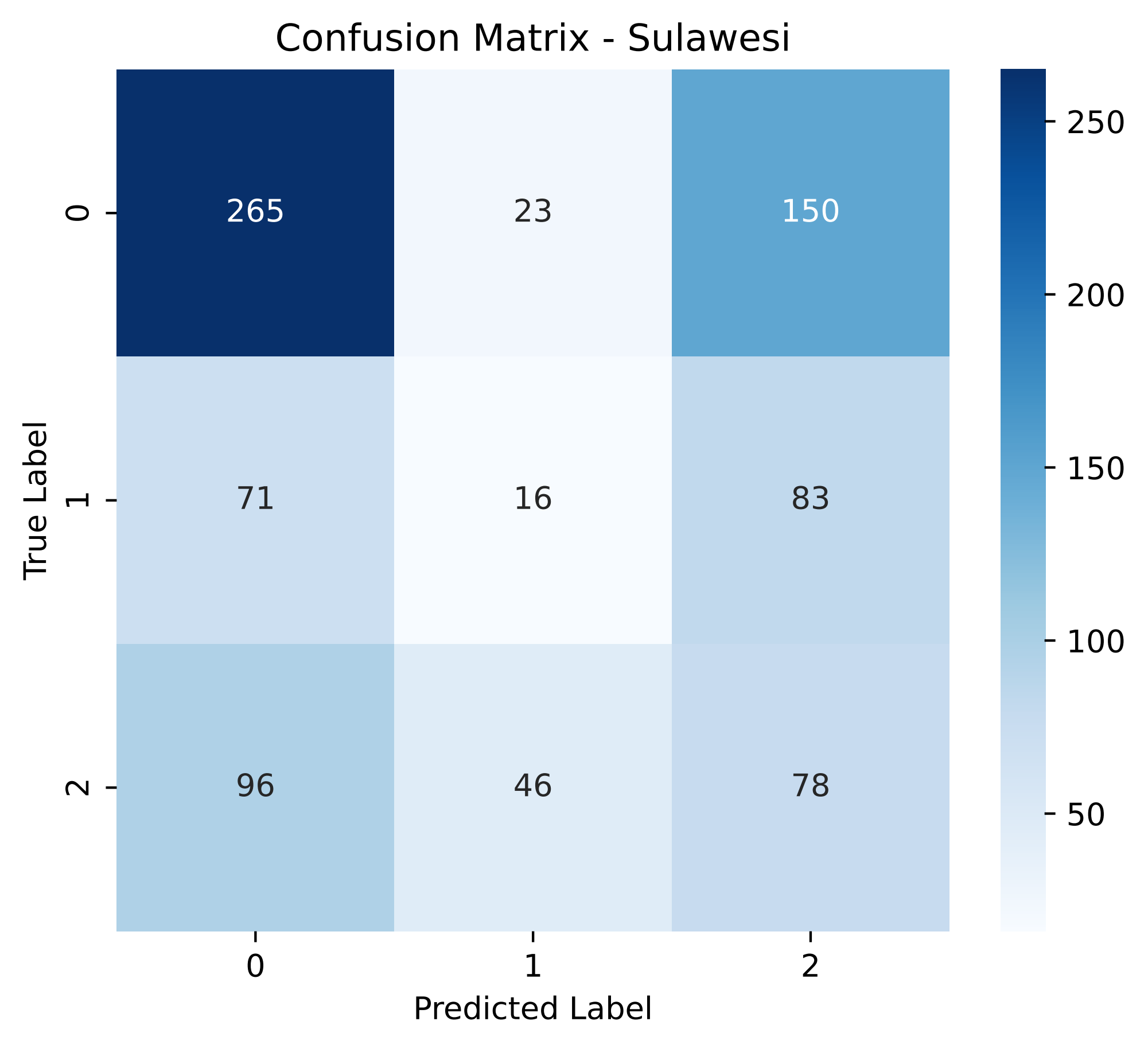

SHAP Dependence Plot for Class_50 - Java
SHAP value for Class_50
Class_50
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.0
0.2
0.4
0.6
0.8

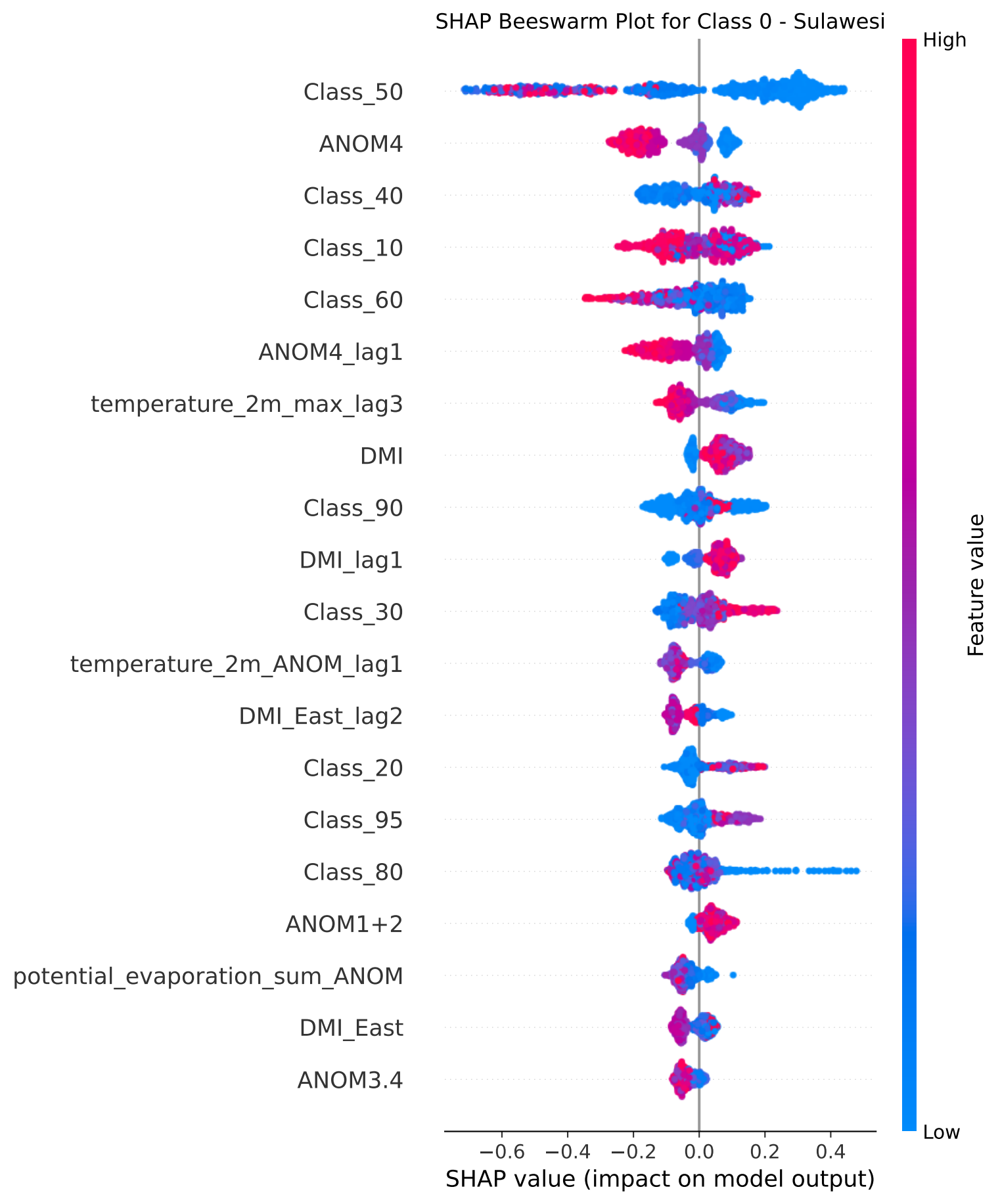

SHAP Dependence Plot for Class_90 - Java
SHAP value for Class_90
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Class_90

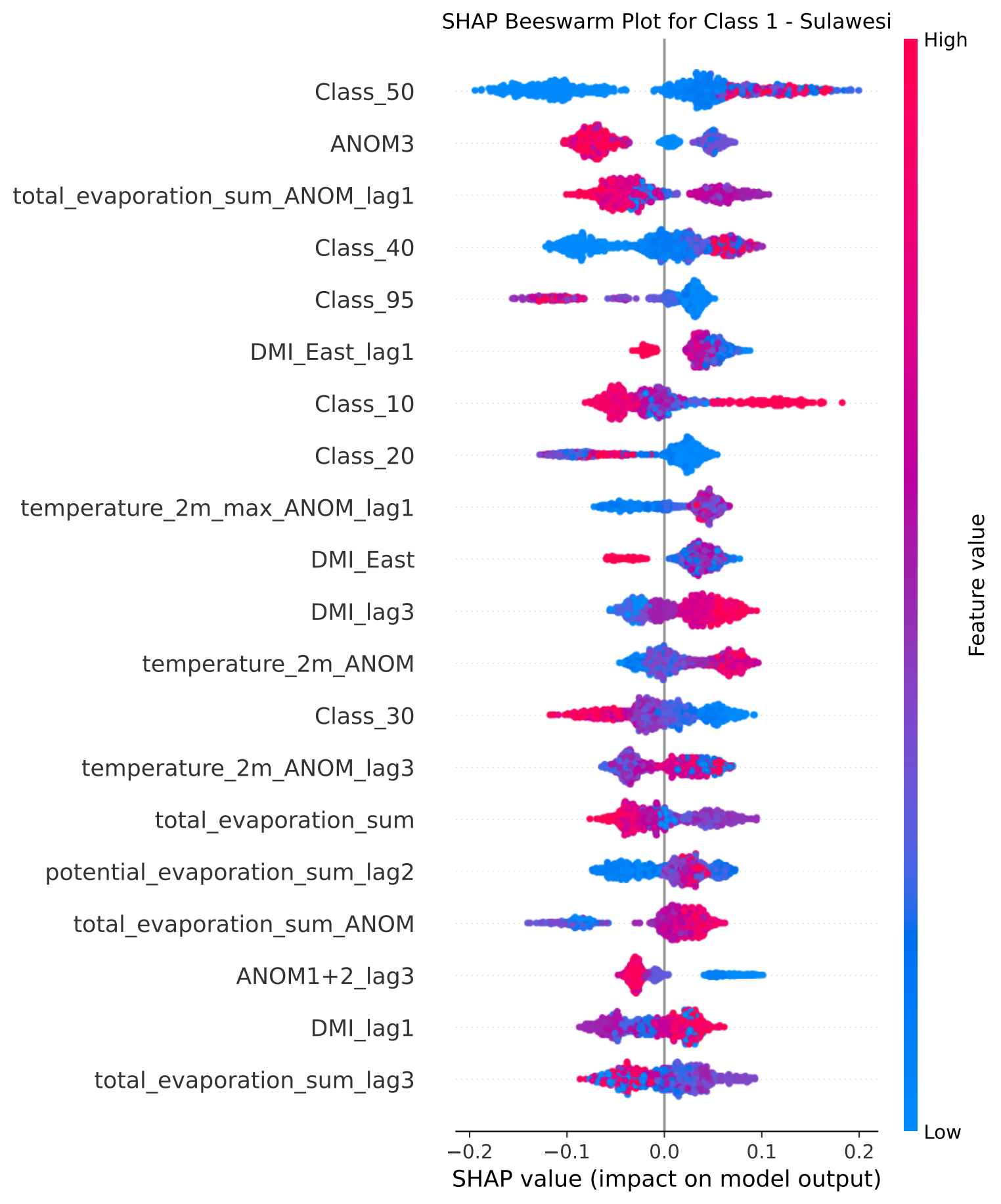

SHAP Dependence Plot for Class_40 - Java
SHAP value for Class_40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Class_40

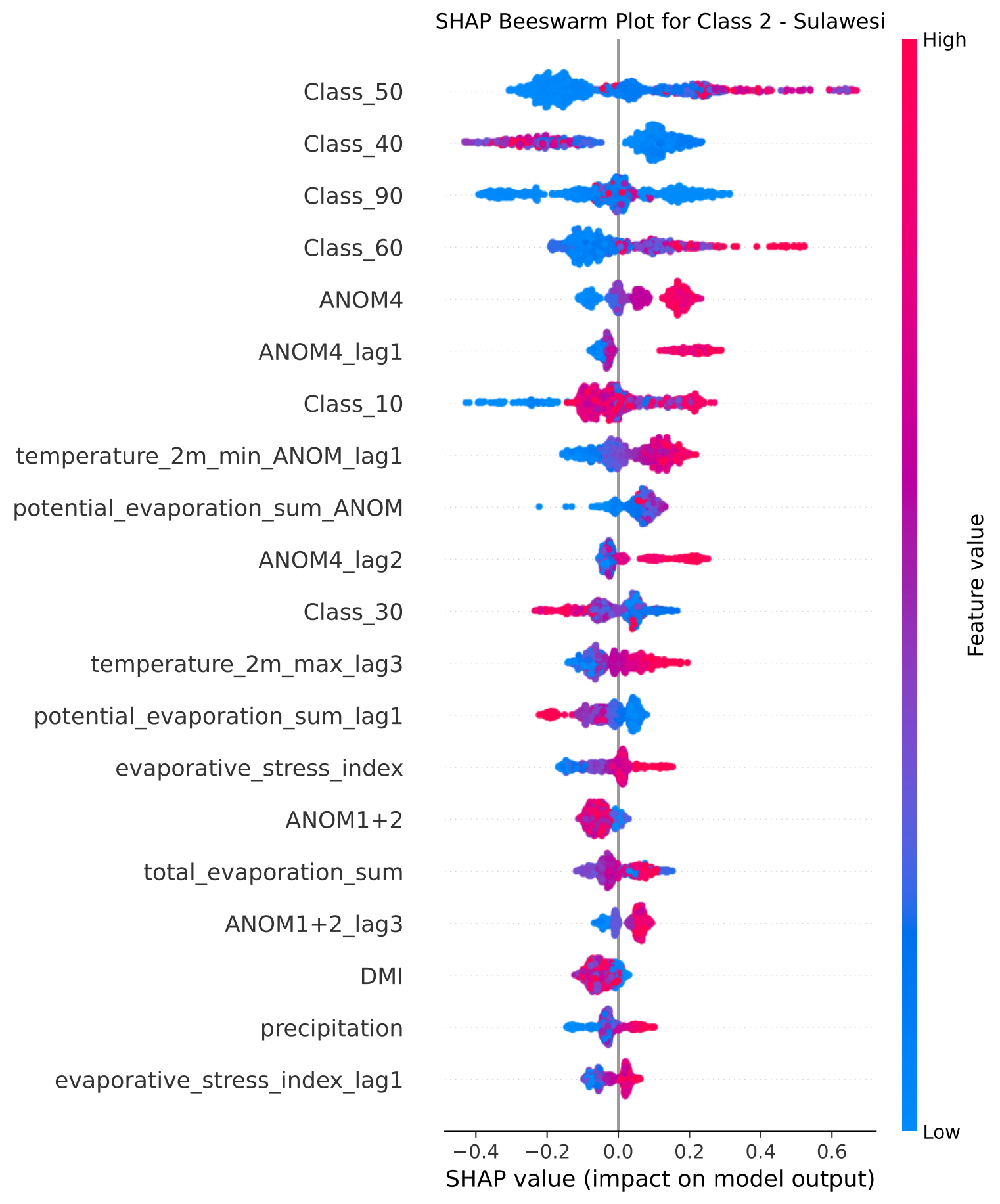

SHAP Dependence Plot for Class_30 - Java
SHAP value for Class_30
0.0
0.1
0.2
0.3
0.4
0.5
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
Class_30

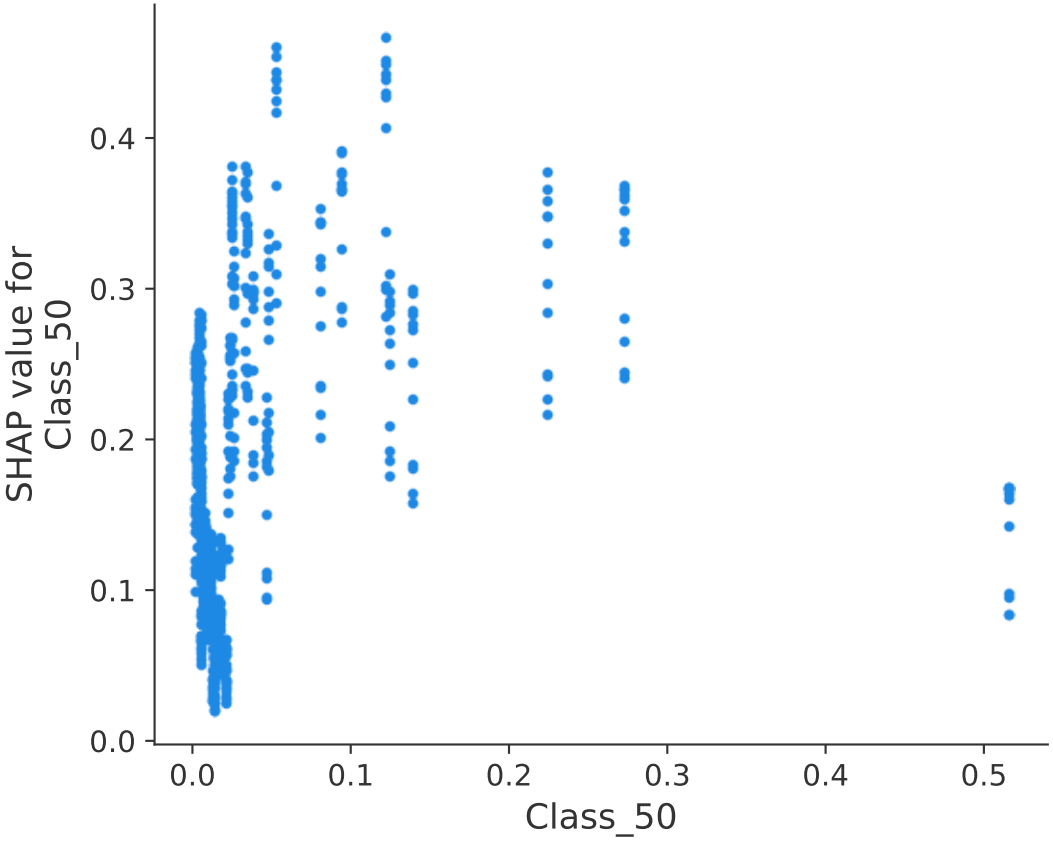

SHAP Dependence Plot for precipitation_lag2 - Java
SHAP value for precipitation_lag2
0.25
0.20
0.15
0.10
0.05
0.00
0
100
200
300
400
500
600
precipitation_lag2

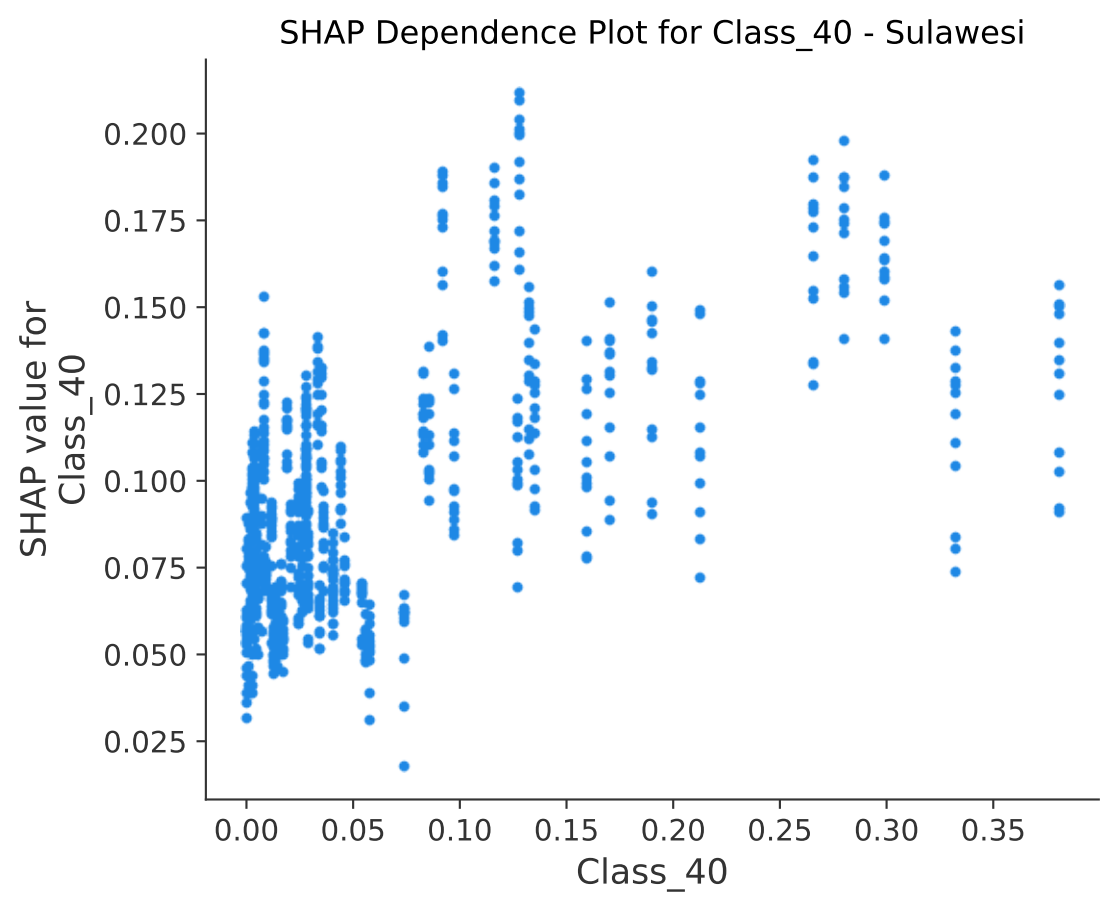

Confusion Matrix - Sulawesi
265
23
150
71
16
83
96
46
78
0
1
2
True Label
0
1
2
Predicted Label
250
200
150
100
50

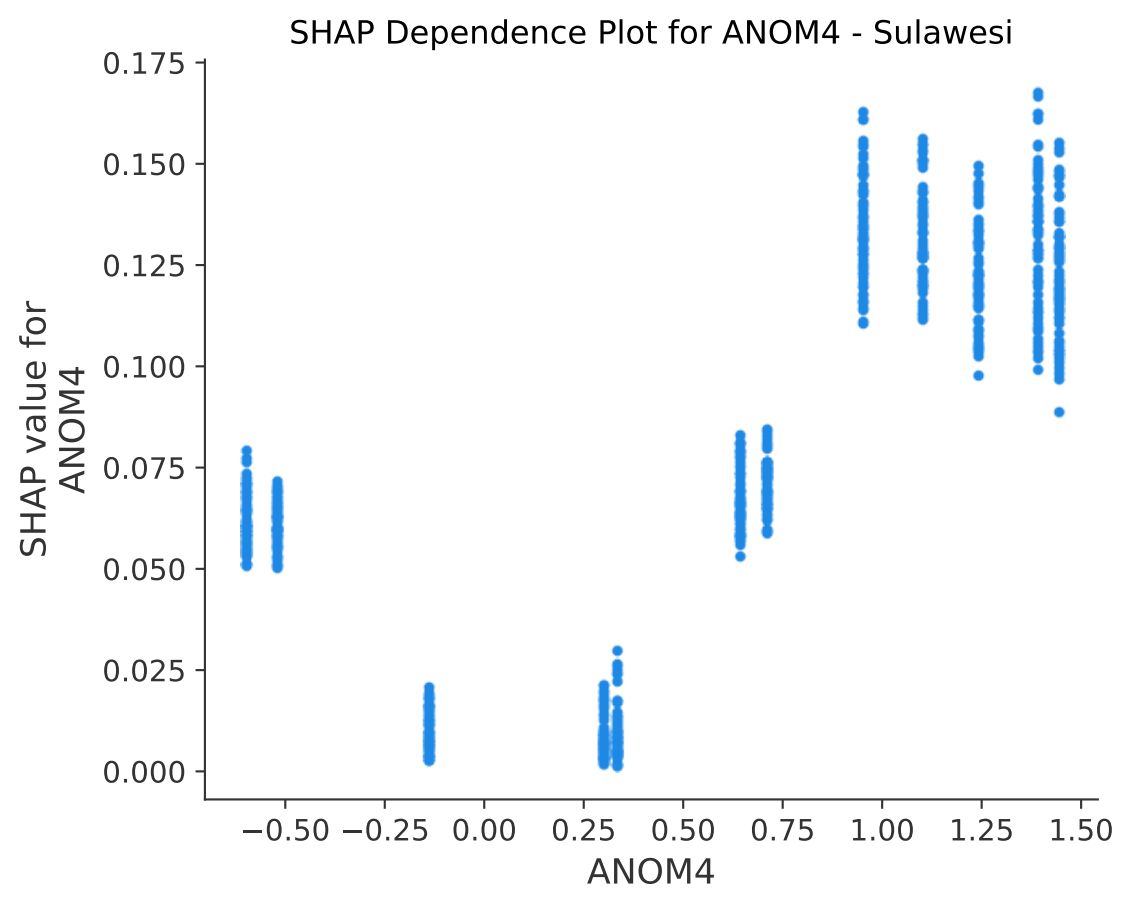

SHAP Beeswarm Plot for Class 0 - Sulawesi
Class_50
ANOM4
Class_40
Class_10
Class_60
ANOM4_lag1
temperature_2m_max_lag3
DMI
Class_90
DMI_lag1
Class_30
temperature_2m_ANOM_lag1
DMI_East_lag2
Class_20
Class_95
Class_80
ANOM1+2
potential_evaporation_sum_ANOM
DMI_East
ANOM3.4
−0.6
−0.4
−0.2
0.0
0.2
0.4
SHAP value (impact on model output)
High
Feature value
Low

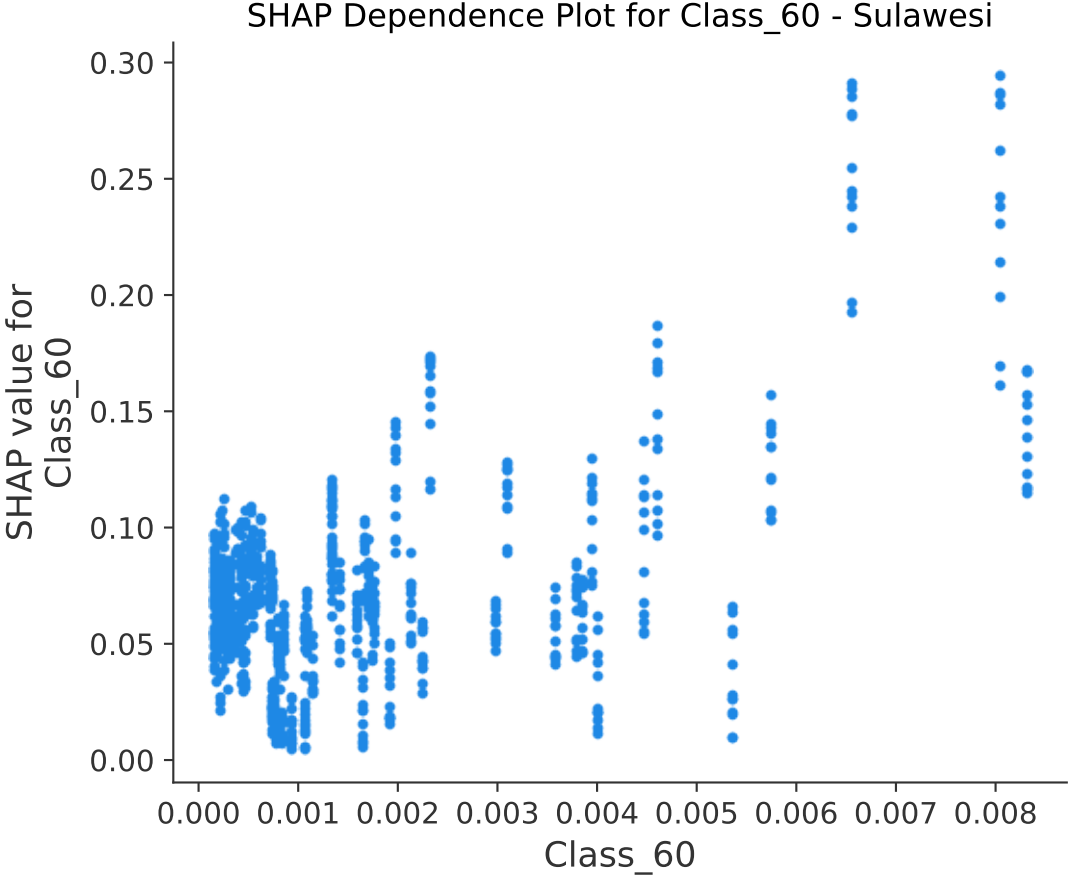

SHAP Beeswarm Plot for Class 1 - Sulawesi
Class_50
ANOM3
total_evaporation_sum_ANOM_lag1
Class_40
Class_95
DMI_East_lag1
Class_10
Class_20
temperature_2m_max_ANOM_lag1
DMI_East
DMI_lag3
temperature_2m_ANOM
Class_30
temperature_2m_ANOM_lag3
total_evaporation_sum
potential_evaporation_sum_lag2
total_evaporation_sum_ANOM
ANOM1+2_lag3
DMI_lag1
total_evaporation_sum_lag3
−0.2
−0.1
0.0
0.1
0.2
SHAP value (impact on model output)
High
Feature value
Low

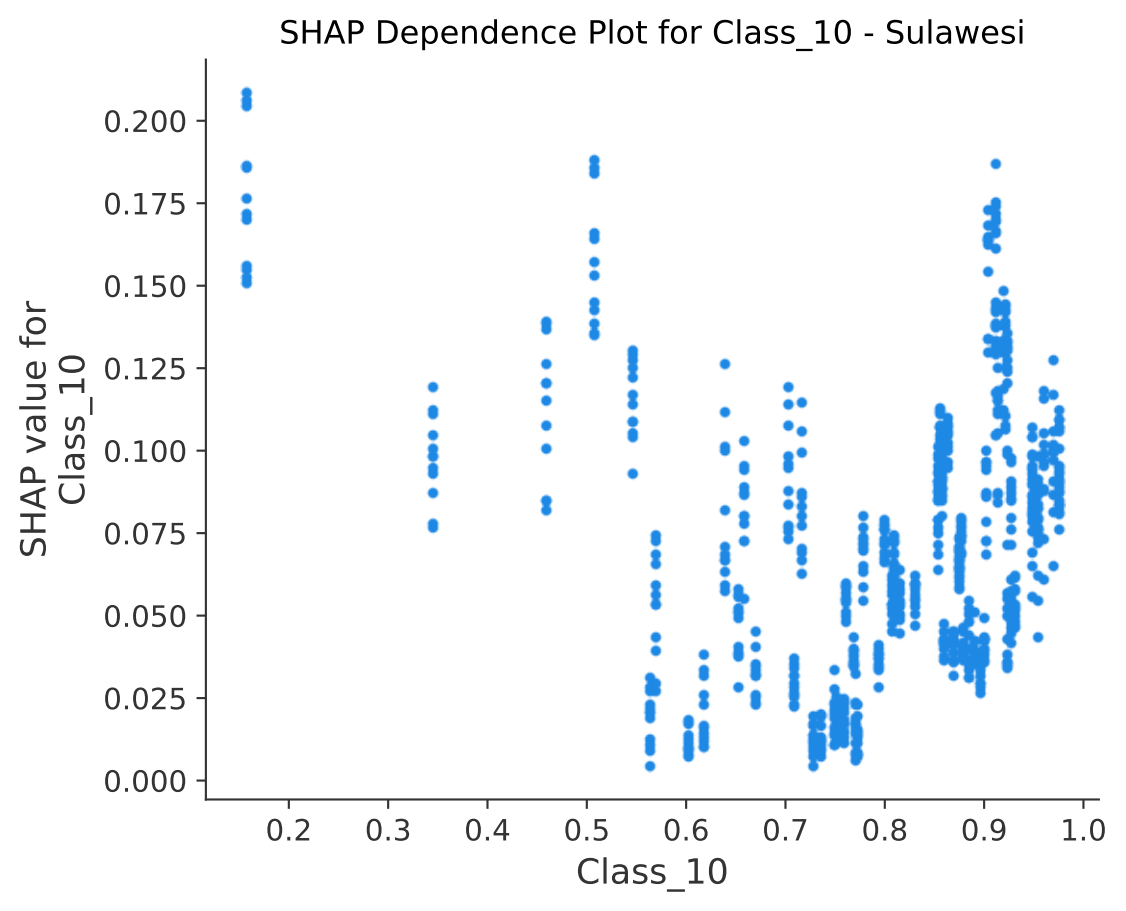

SHAP Beeswarm Plot for Class 2 - Sulawesi
Class_50
Class_40
Class_90
Class_60
ANOM4
ANOM4_lag1
Class_10
temperature_2m_min_ANOM_lag1
potential_evaporation_sum_ANOM
ANOM4_lag2
Class_30
temperature_2m_max_lag3
potential_evaporation_sum_lag1
evaporative_stress_index
ANOM1+2
total_evaporation_sum
ANOM1+2_lag3
DMI
precipitation
evaporative_stress_index_lag1
−0.4
−0.2
0.0
0.2
0.4
0.6
SHAP value (impact on model output)
High
Feature value
Low

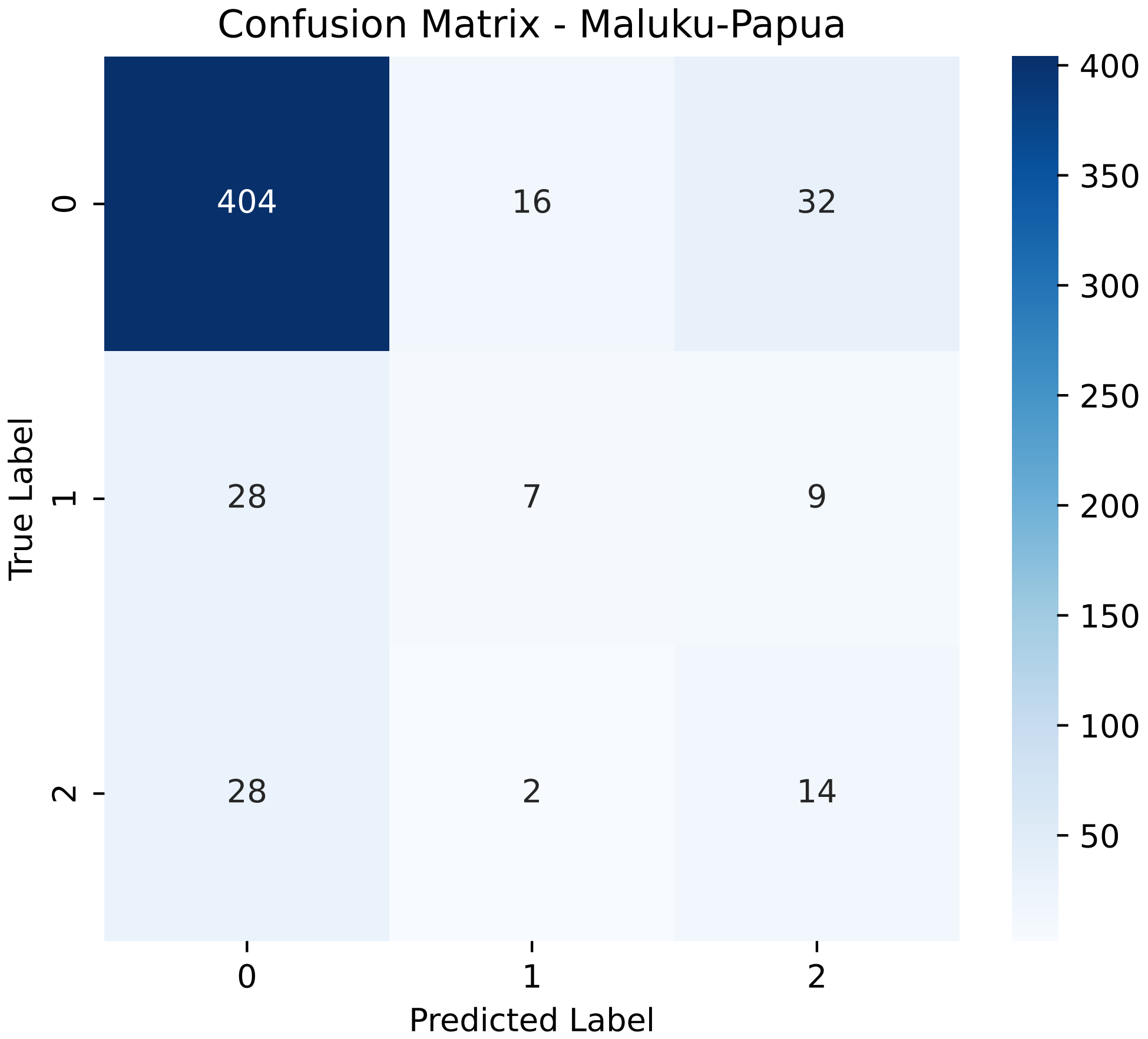

SHAP Dependence Plot for Class_50 - Sulawesi
SHAP value for Class_50
Class_50
0.0
0.1
0.2
0.3
0.4
0.5

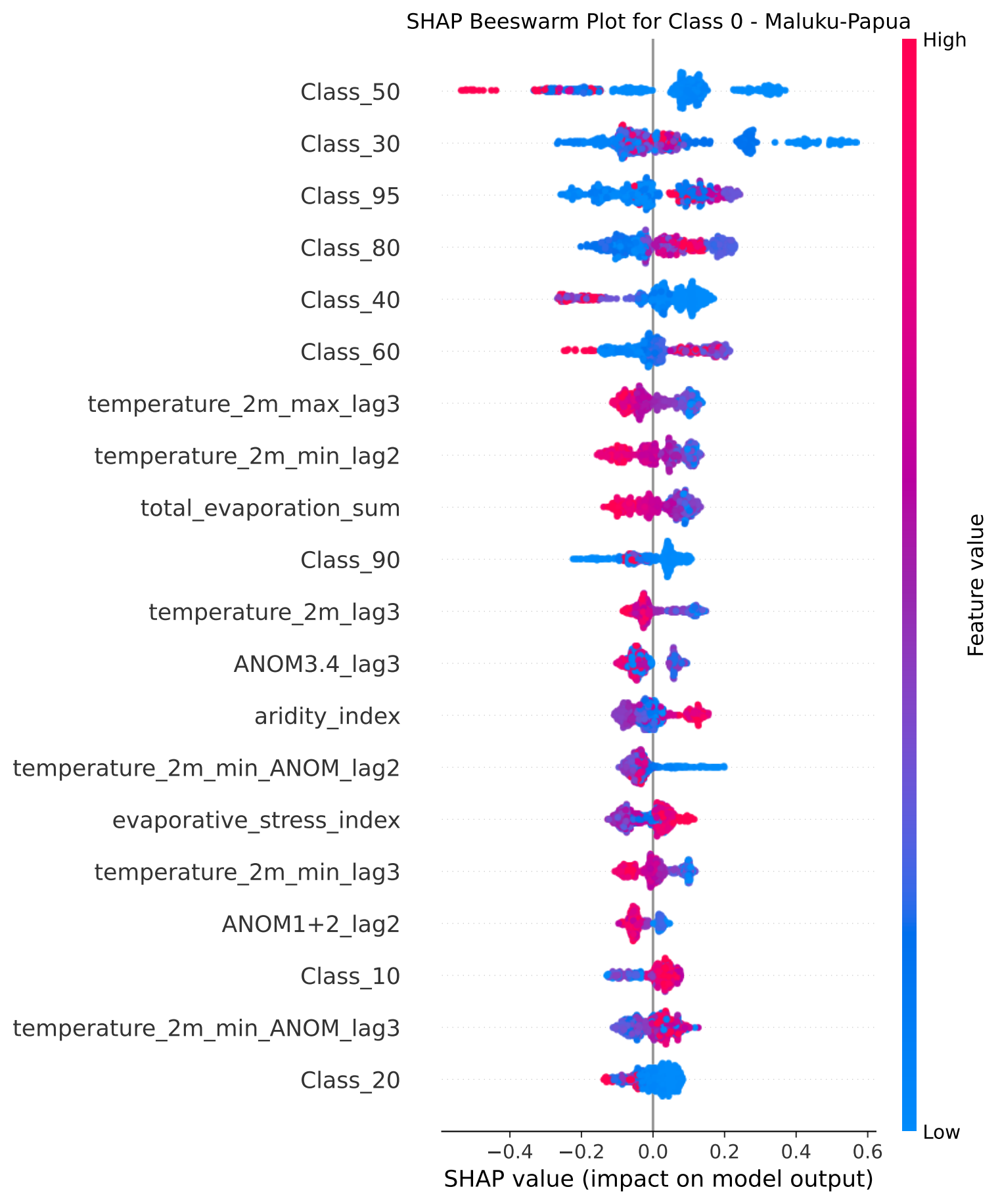

SHAP Dependence Plot for Class_40 - Sulawesi
SHAP value for Class_40
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
Class_40

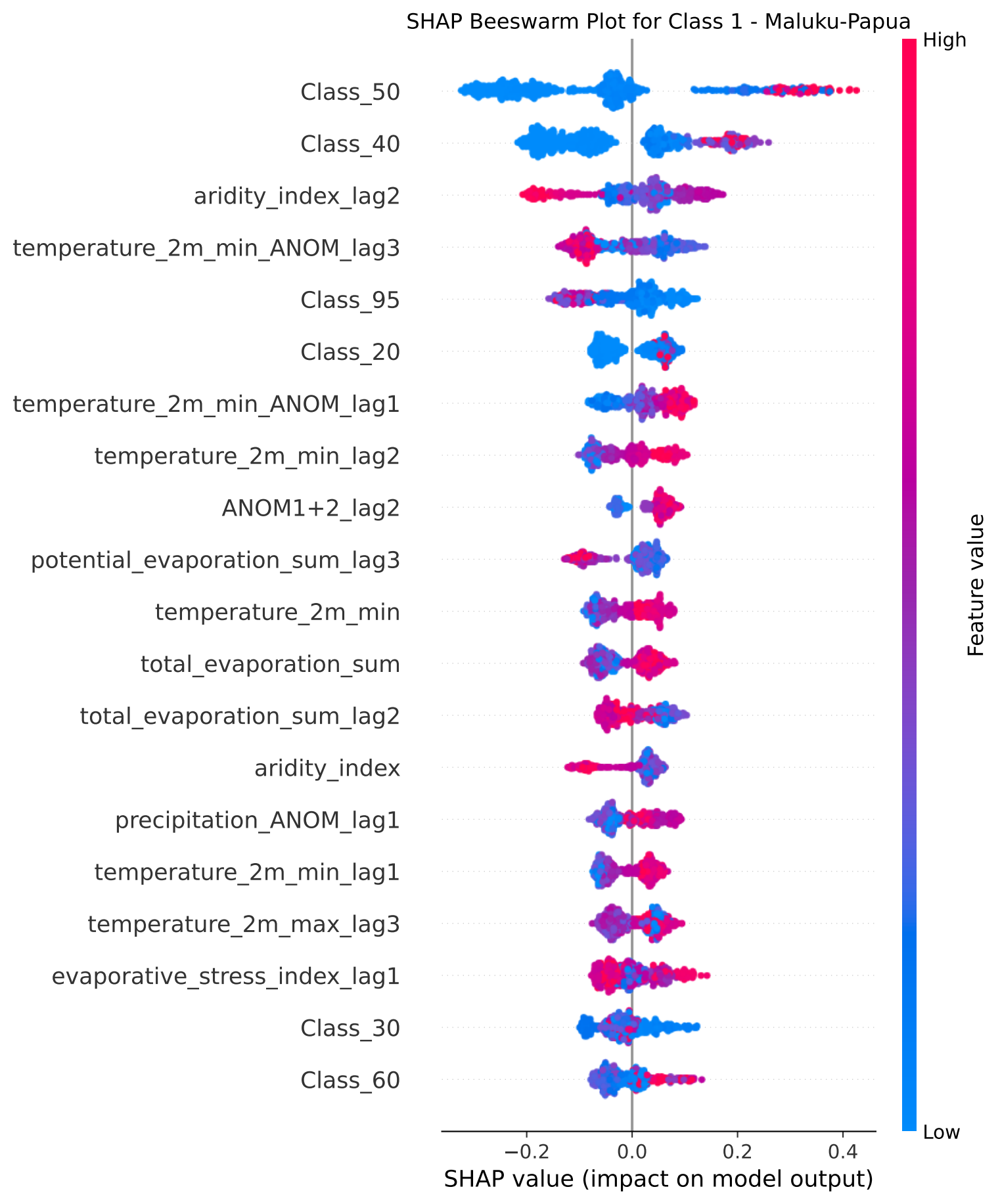

SHAP Dependence Plot for ANOM4 - Sulawesi
SHAP value for ANOM4
ANOM4
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
1.25
1.50

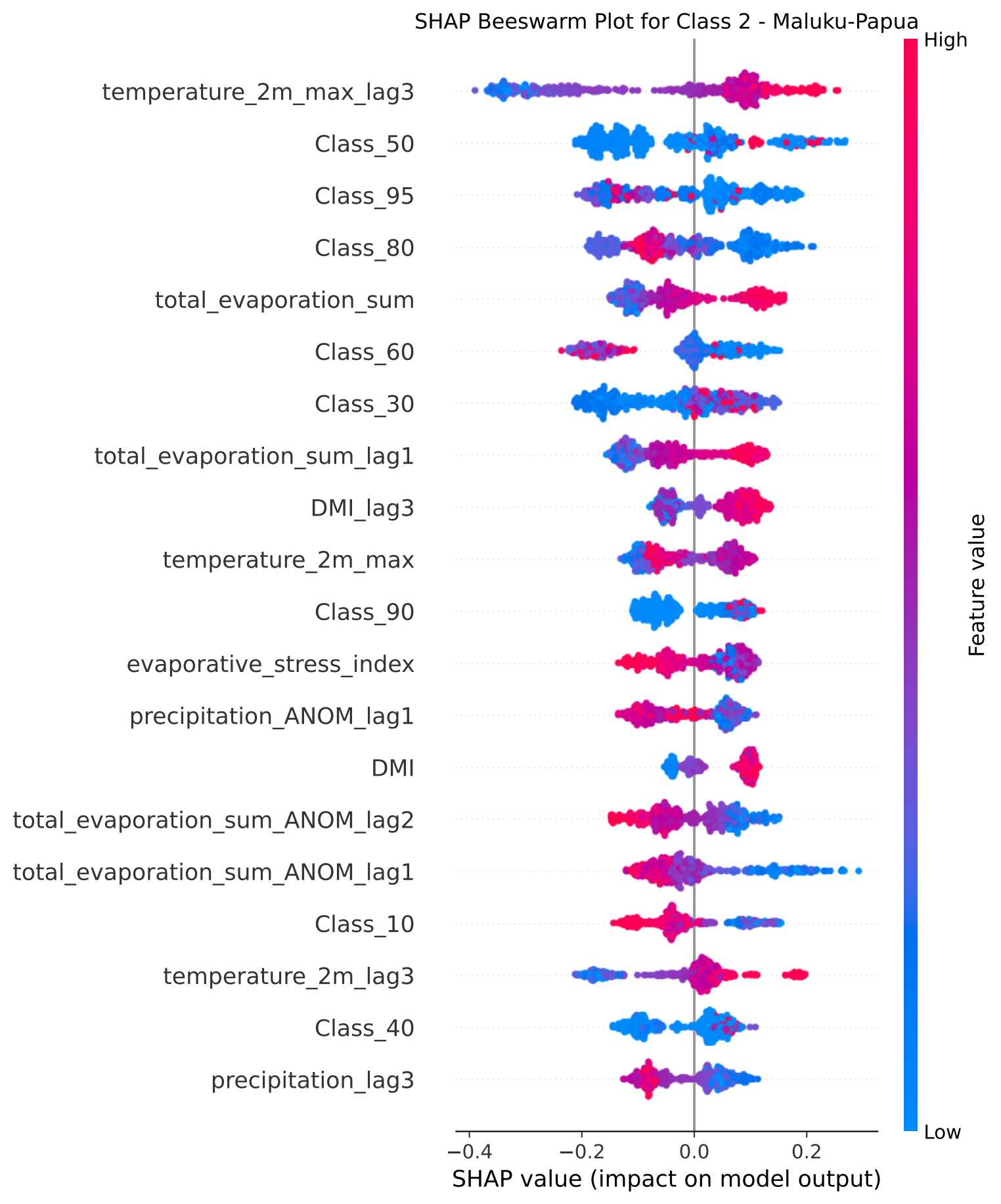

SHAP Dependence Plot for Class_60 - Sulawesi
SHAP value for Class_60
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.000
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
Class_60

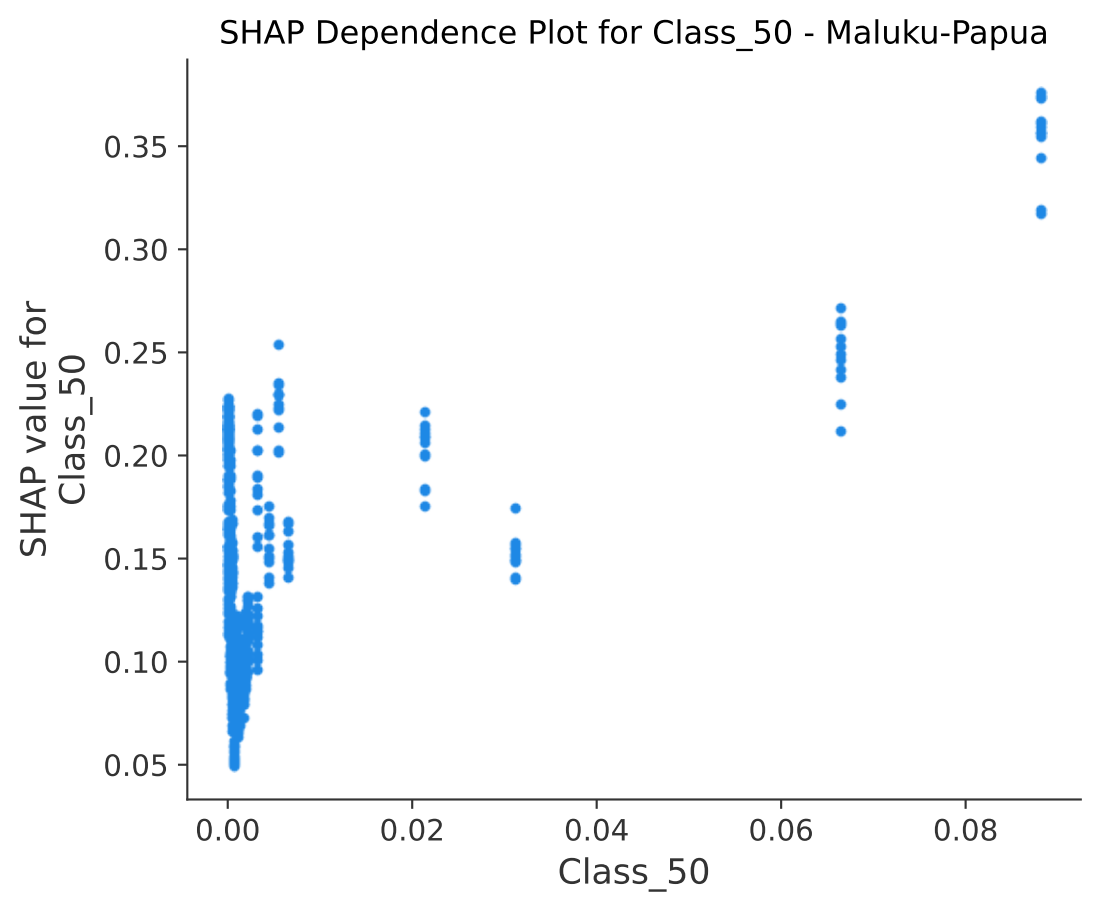

SHAP Dependence Plot for Class_10 - Sulawesi
SHAP value for Class_10
Class_10
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0

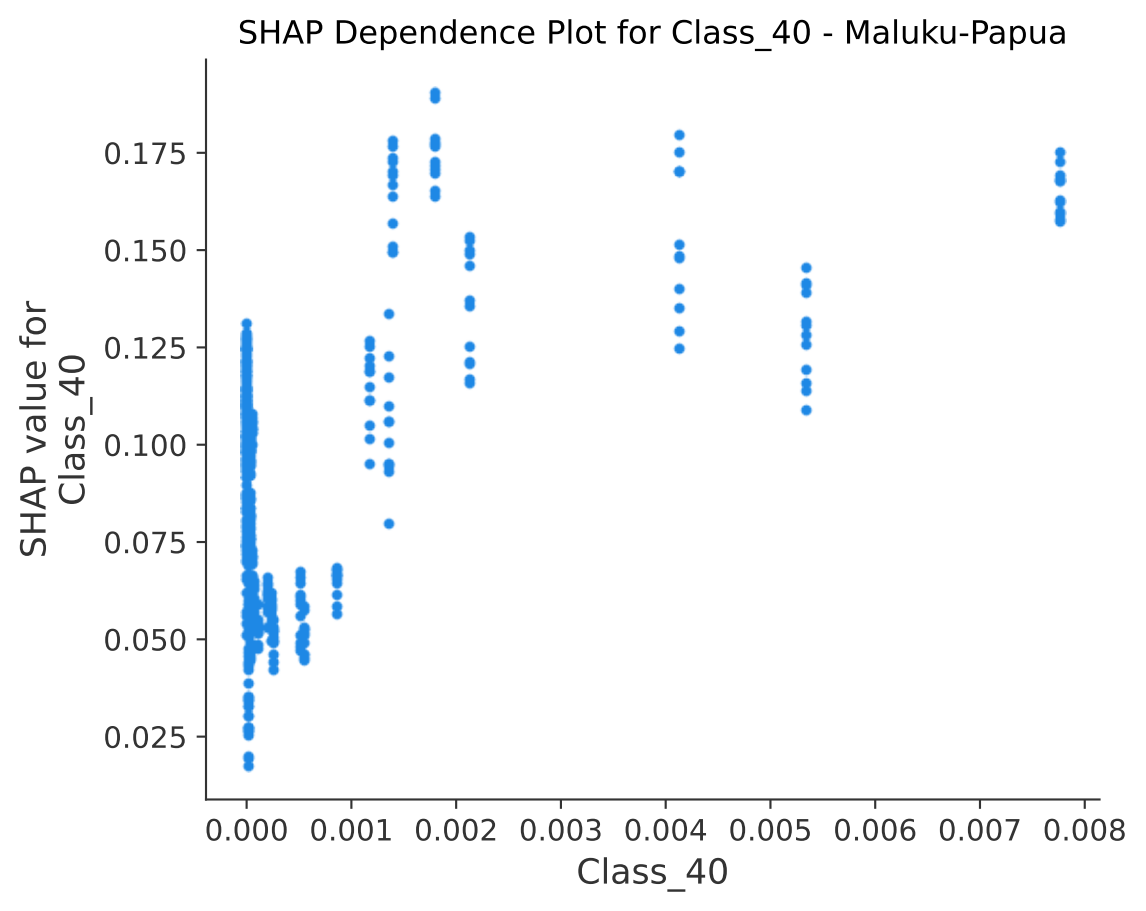

Confusion Matrix - Maluku-Papua
True Label
Predicted Label
0
1
2
404
16
32
28
7
9
28
2
14
400
350
300
250
200
150
100
50

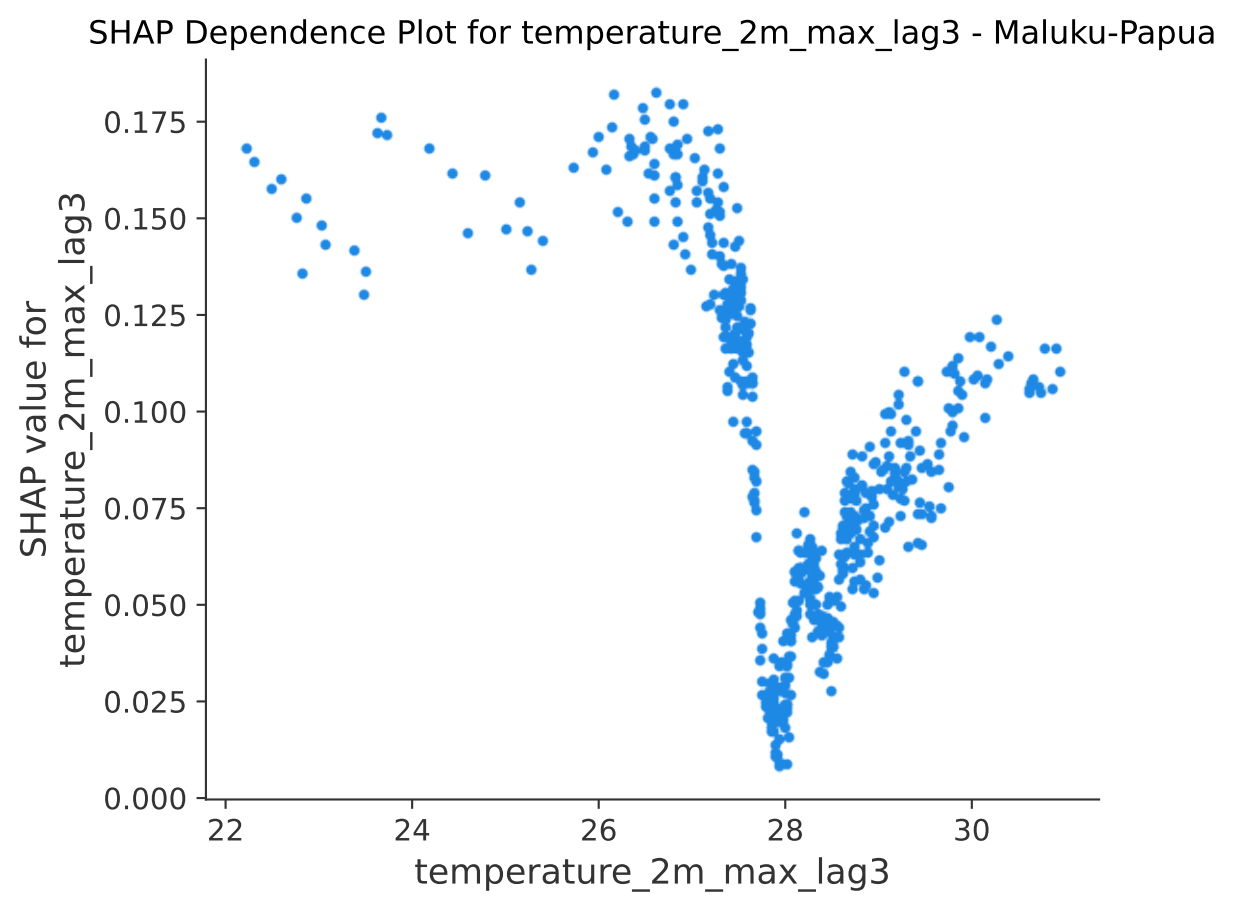

SHAP Beeswarm Plot for Class 0 - Maluku-Papua
Class_50
Class_30
Class_95
Class_80
Class_40
Class_60
temperature_2m_max_lag3
temperature_2m_min_lag2
total_evaporation_sum
Class_90
temperature_2m_lag3
ANOM3.4_lag3
aridity_index
temperature_2m_min_ANOM_lag2
evaporative_stress_index
temperature_2m_min_lag3
ANOM1+2_lag2
Class_10
temperature_2m_min_ANOM_lag3
Class_20
−0.4
−0.2
0.0
0.2
0.4
0.6
SHAP value (impact on model output)
High
Feature value
Low

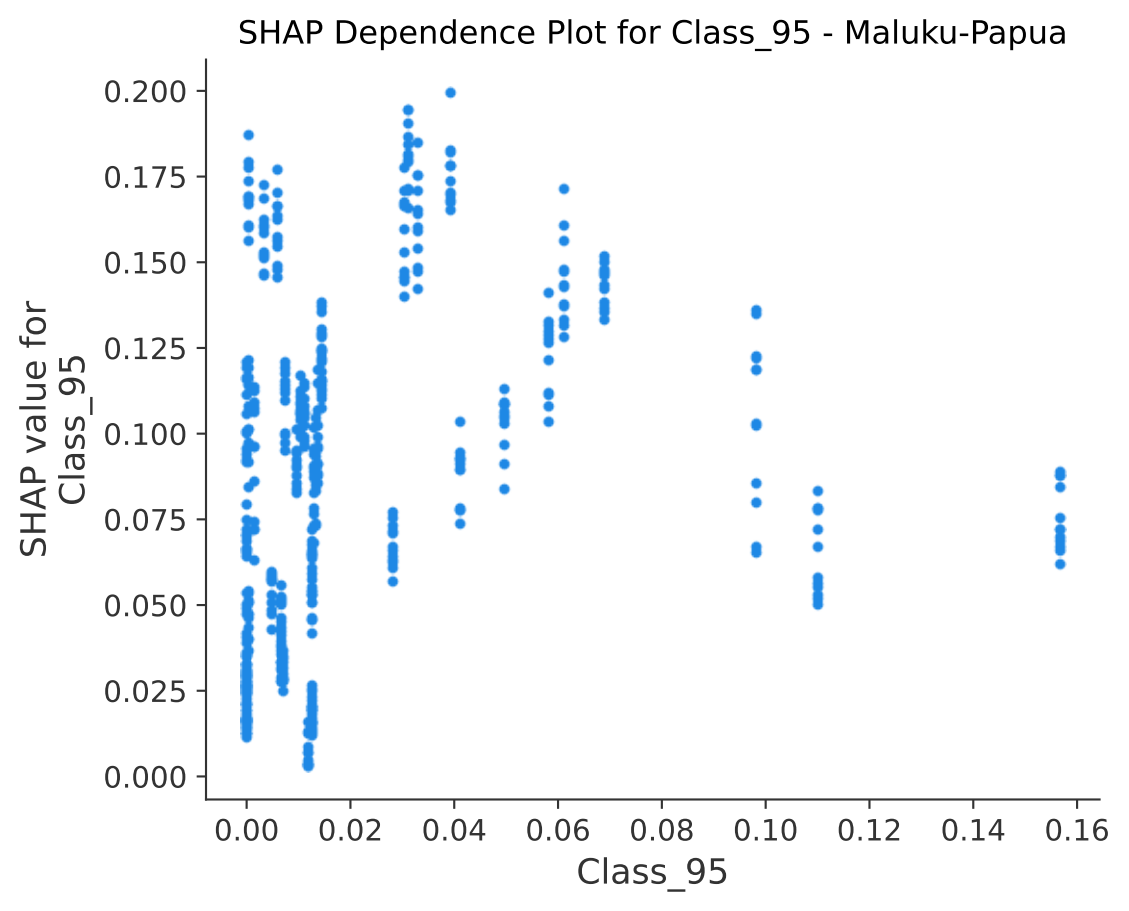

SHAP Beeswarm Plot for Class 1 - Maluku-Papua
Class_50
Class_40
aridity_index_lag2
temperature_2m_min_ANOM_lag3
Class_95
Class_20
temperature_2m_min_ANOM_lag1
temperature_2m_min_lag2
ANOM1+2_lag2
potential_evaporation_sum_lag3
temperature_2m_min
total_evaporation_sum
total_evaporation_sum_lag2
aridity_index
precipitation_ANOM_lag1
temperature_2m_min_lag1
temperature_2m_max_lag3
evaporative_stress_index_lag1
Class_30
Class_60
−0.2
0.0
0.2
0.4
SHAP value (impact on model output)
High
Low
Feature value

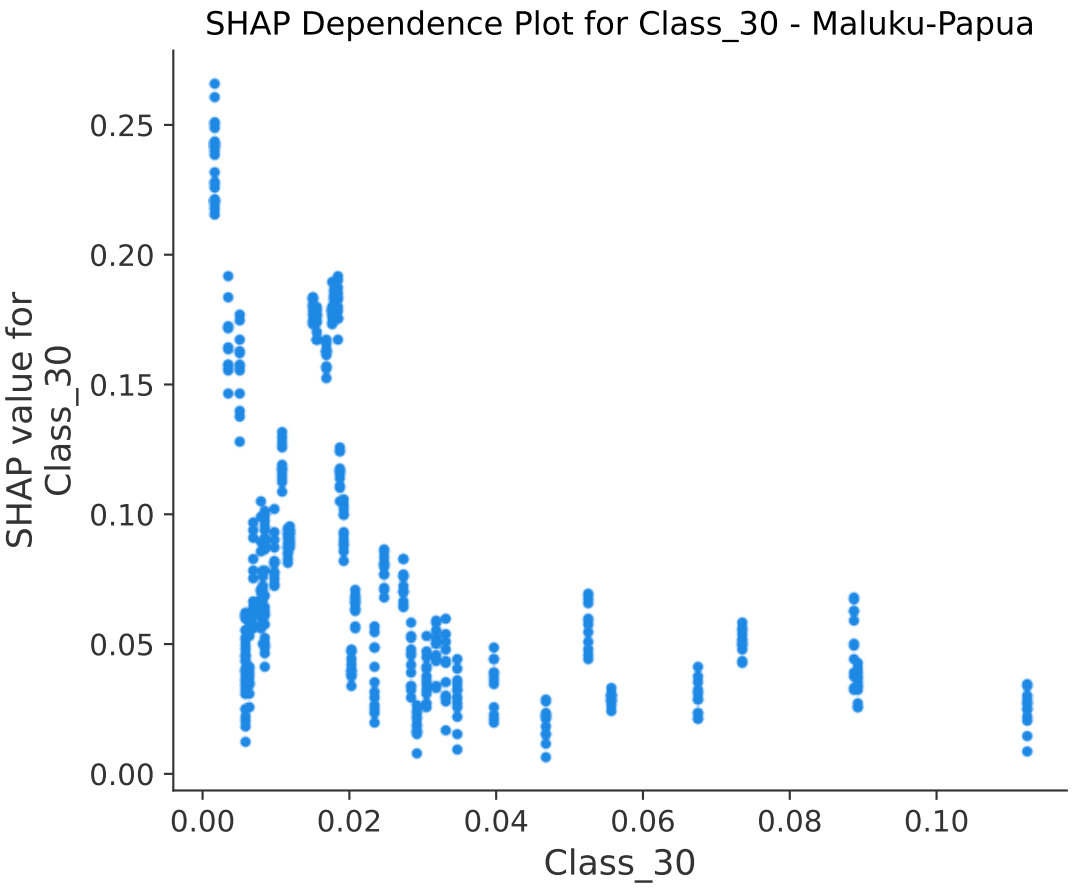

SHAP Beeswarm Plot for Class 2 - Maluku-Papua
temperature_2m_max_lag3
Class_50
Class_95
Class_80
total_evaporation_sum
Class_60
Class_30
total_evaporation_sum_lag1
DMI_lag3
temperature_2m_max
Class_90
evaporative_stress_index
precipitation_ANOM_lag1
DMI
total_evaporation_sum_ANOM_lag2
total_evaporation_sum_ANOM_lag1
Class_10
temperature_2m_lag3
Class_40
precipitation_lag3
−0.4
−0.2
0.0
0.2
SHAP value (impact on model output)
High
Feature value
Low

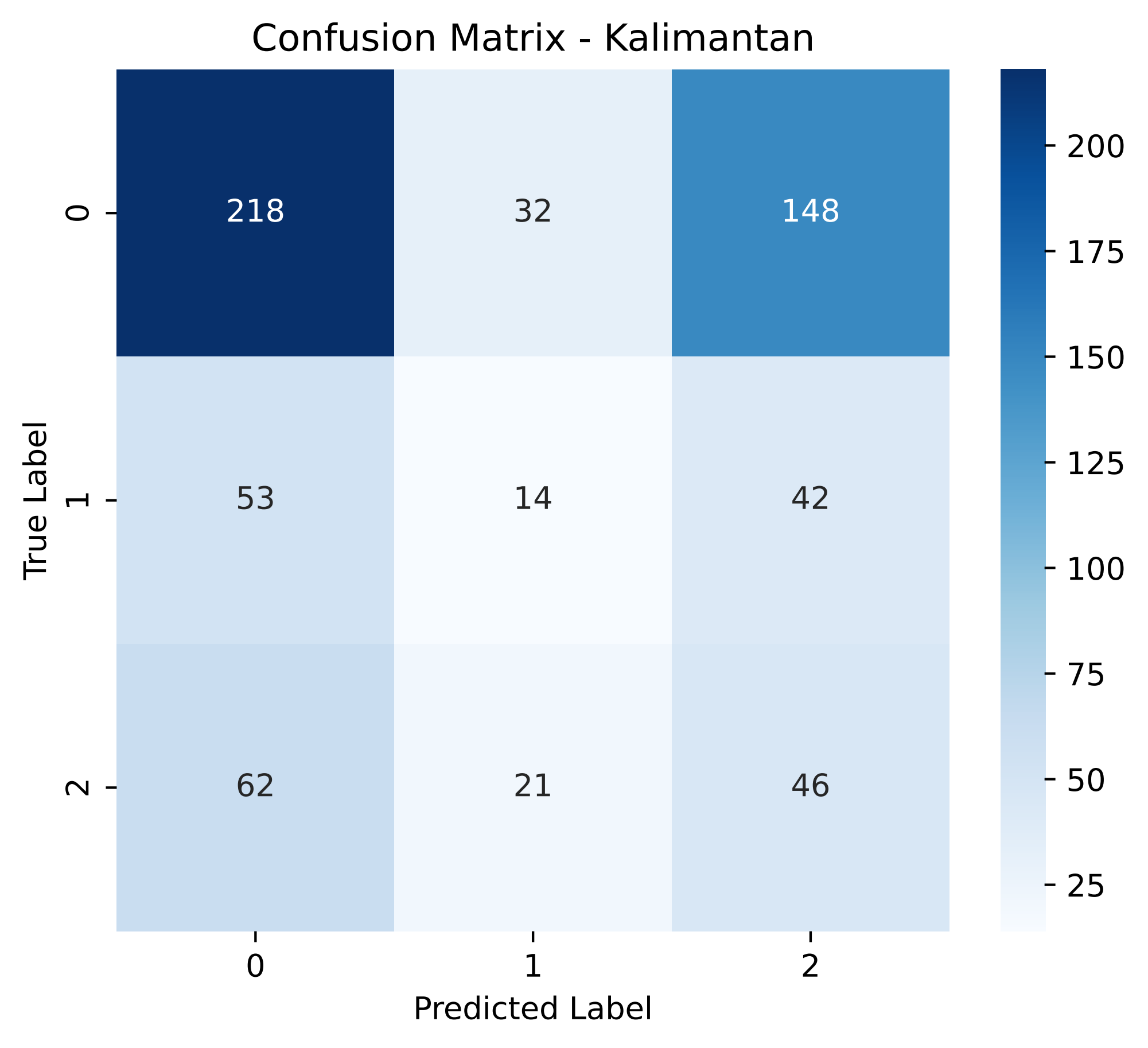

SHAP Dependence Plot for Class_50 - Maluku-Papua
SHAP value for Class_50
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.02
0.04
0.06
0.08
Class_50

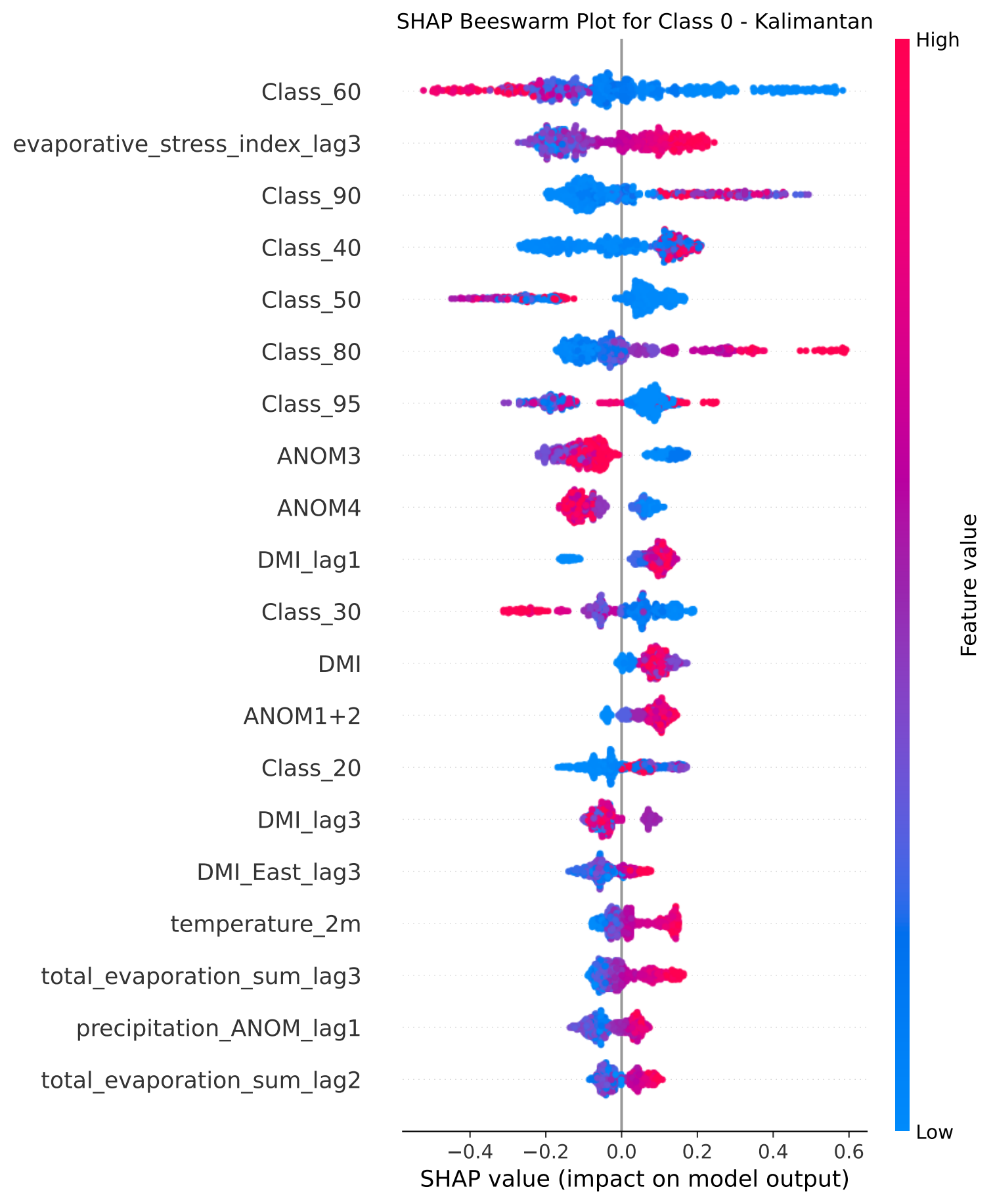

SHAP Dependence Plot for Class_40 - Maluku-Papua
SHAP value for Class_40
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
Class_40

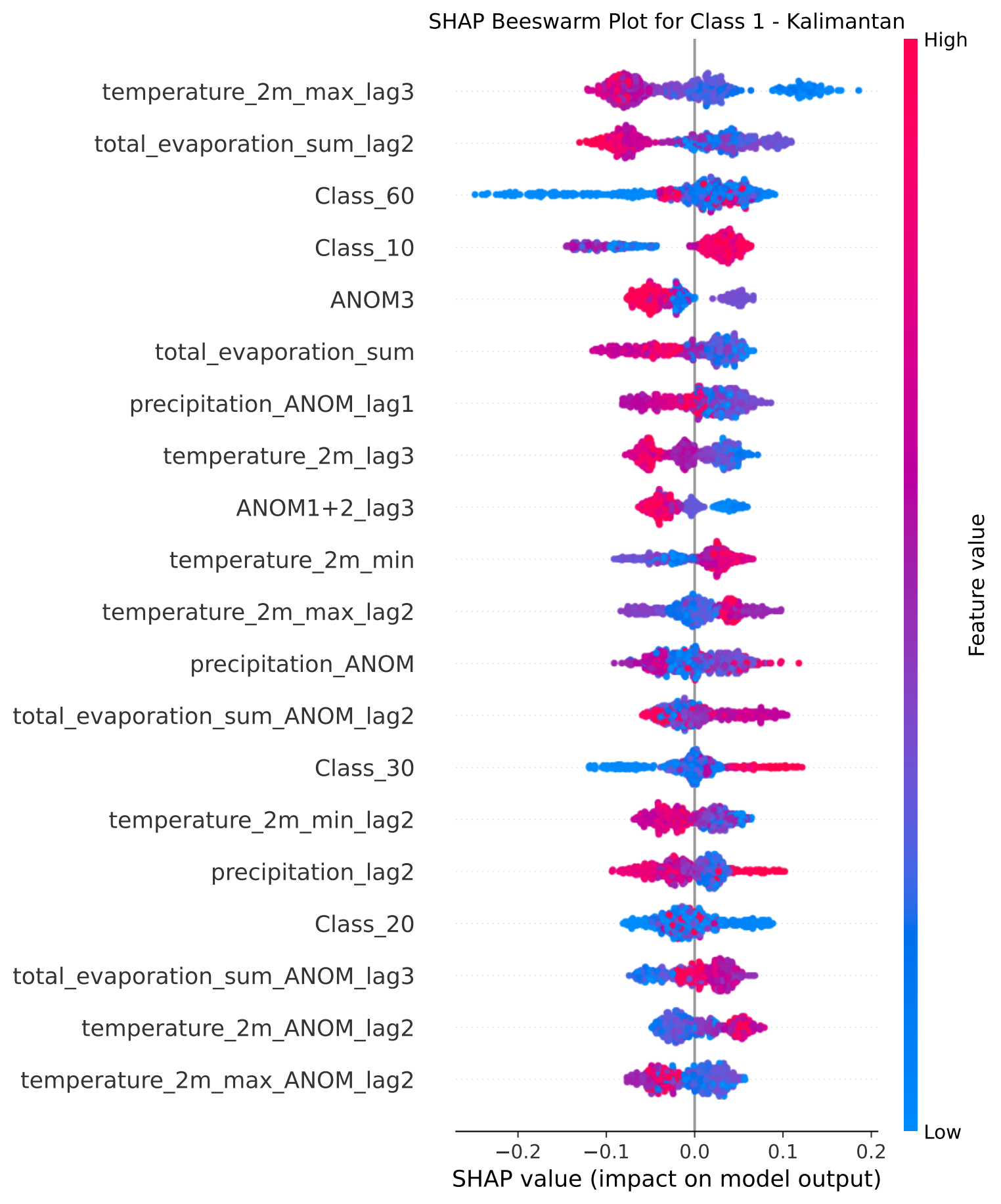

SHAP Dependence Plot for temperature_2m_max_lag3 - Maluku-Papua
SHAP value for temperature_2m_max_lag3
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
22
24
26
28
30
temperature_2m_max_lag3

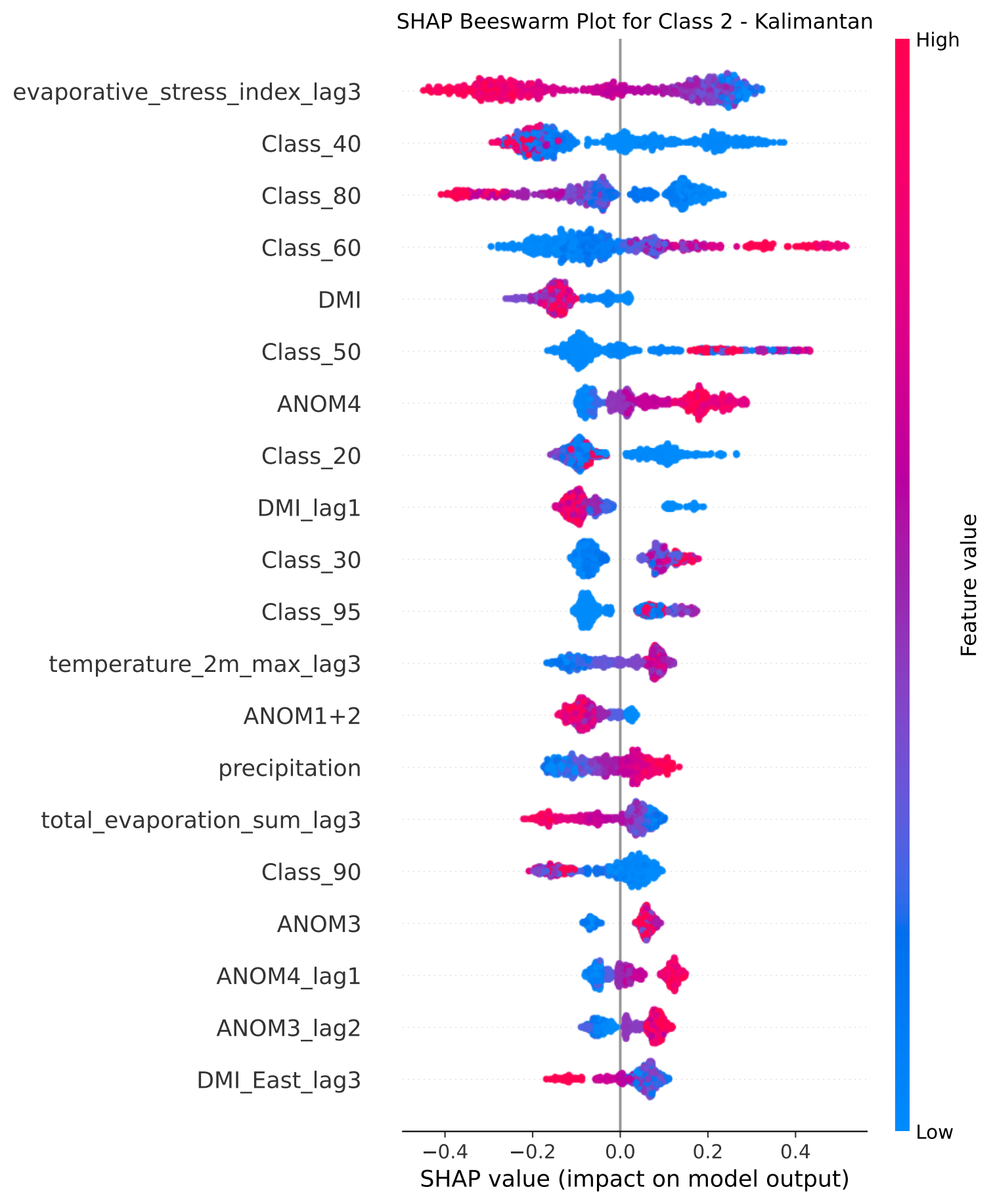

SHAP Dependence Plot for Class_95 - Maluku-Papua
SHAP value for Class_95
Class_95
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16

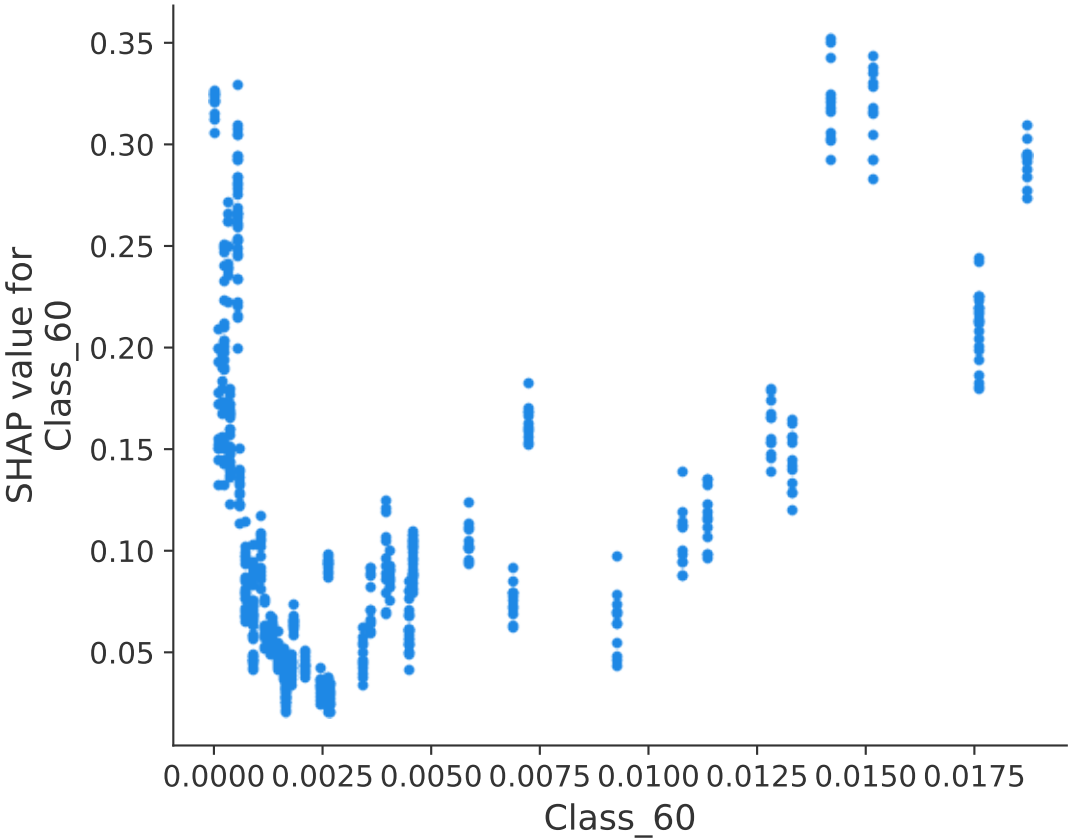

SHAP Dependence Plot for Class_30 - Maluku-Papua
SHAP value for Class_30
0.25
0.20
0.15
0.10
0.05
0.00
0.00
0.02
0.04
0.06
0.08
0.10
Class_30

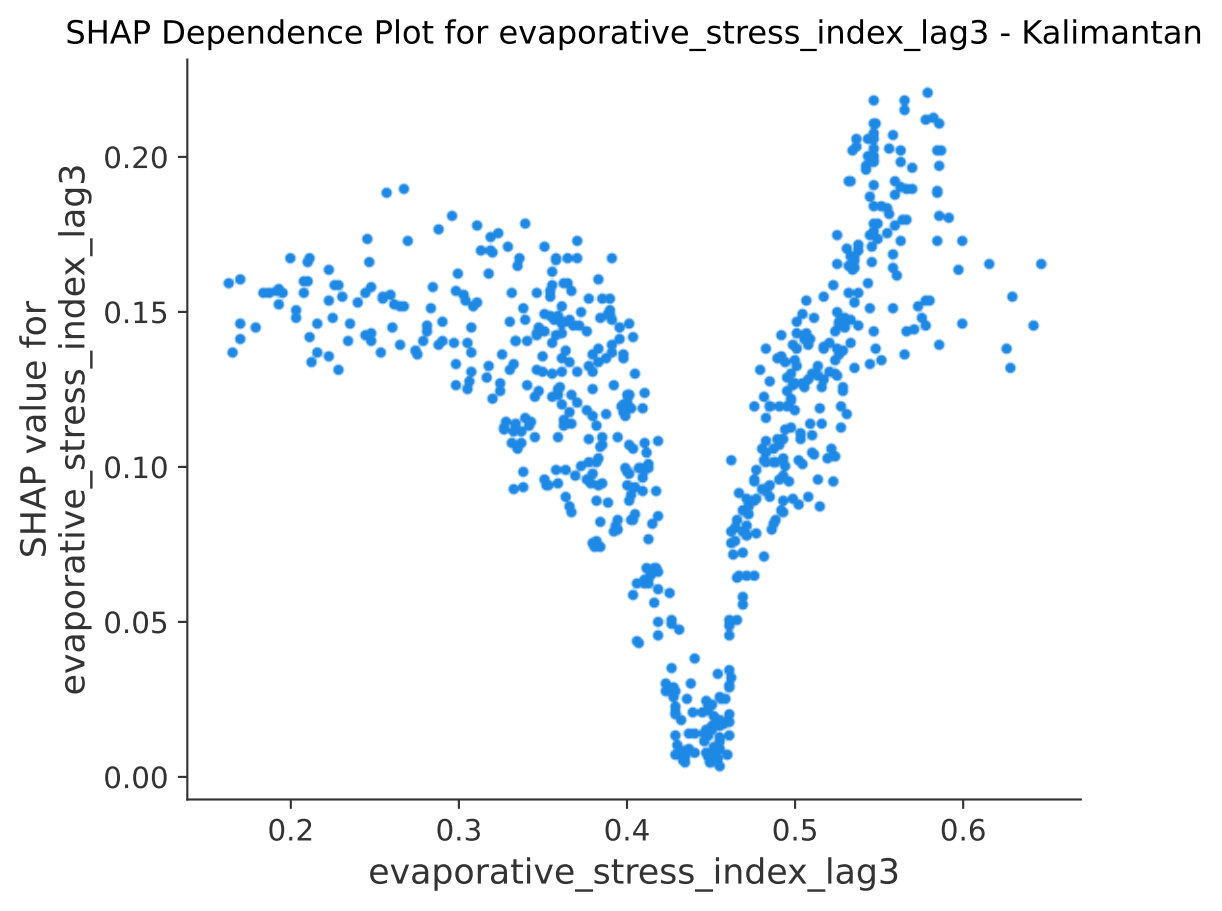

Confusion Matrix - Kalimantan
218
32
148
53
14
42
62
21
46
0
1
2
True Label
0
1
2
Predicted Label
200
175
150
125
100
75
50
25

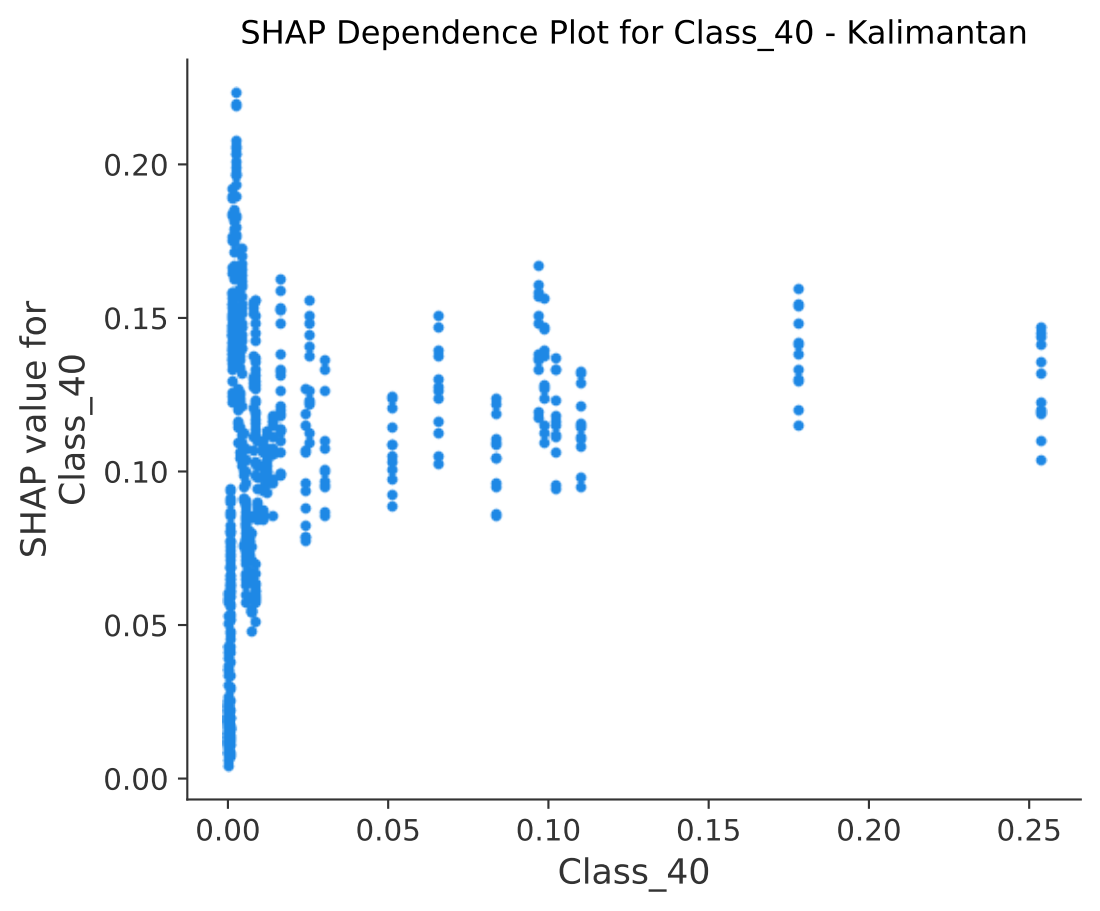

SHAP Beeswarm Plot for Class 0 - Kalimantan
Class_60
evaporative_stress_index_lag3
Class_90
Class_40
Class_50
Class_80
Class_95
ANOM3
ANOM4
DMI_lag1
Class_30
DMI
ANOM1+2
Class_20
DMI_lag3
DMI_East_lag3
temperature_2m
total_evaporation_sum_lag3
precipitation_ANOM_lag1
total_evaporation_sum_lag2
−0.4
−0.2
0.0
0.2
0.4
0.6
SHAP value (impact on model output)
High
Low
Feature value

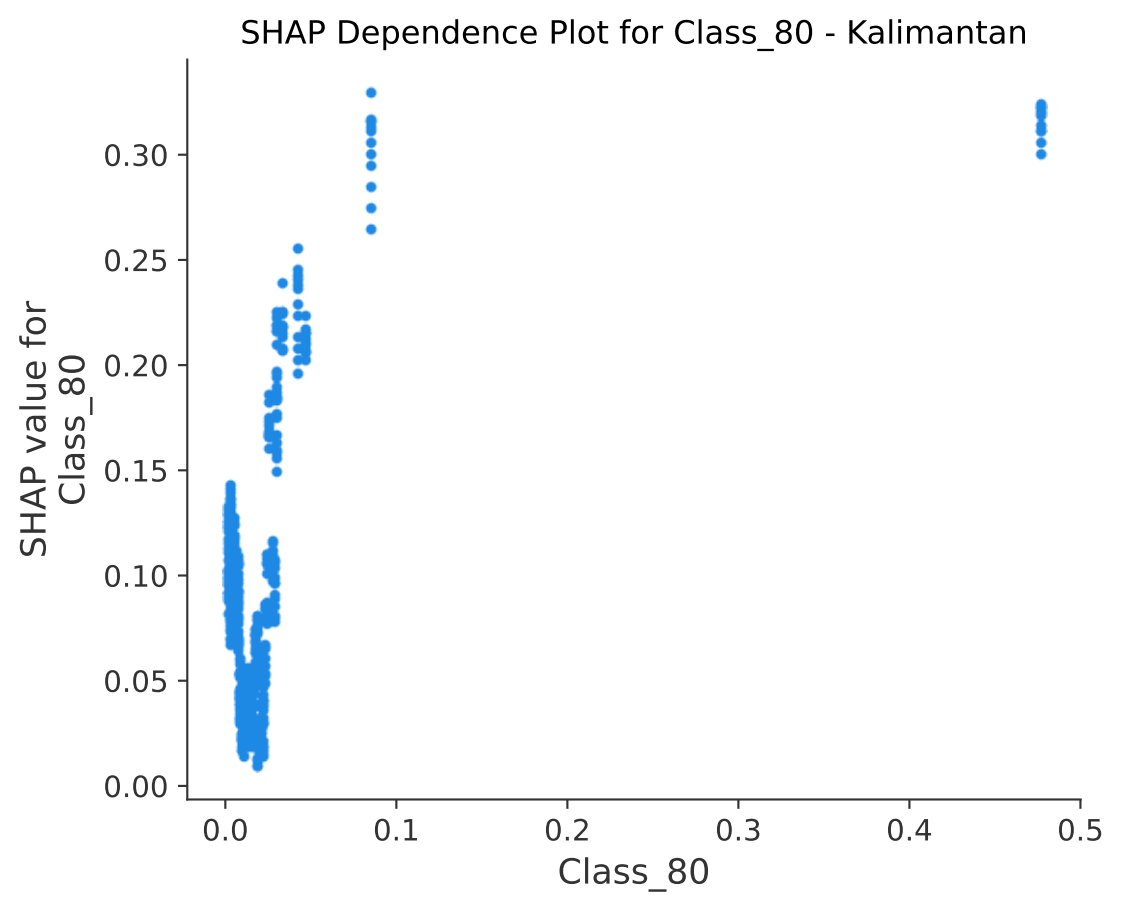

SHAP Beeswarm Plot for Class 1 - Kalimantan
temperature_2m_max_lag3
total_evaporation_sum_lag2
Class_60
Class_10
ANOM3
total_evaporation_sum
precipitation_ANOM_lag1
temperature_2m_lag3
ANOM1+2_lag3
temperature_2m_min
temperature_2m_max_lag2
precipitation_ANOM
total_evaporation_sum_ANOM_lag2
Class_30
temperature_2m_min_lag2
precipitation_lag2
Class_20
total_evaporation_sum_ANOM_lag3
temperature_2m_ANOM_lag2
temperature_2m_max_ANOM_lag2
−0.2
−0.1
0.0
0.1
0.2
SHAP value (impact on model output)
High
Feature value
Low

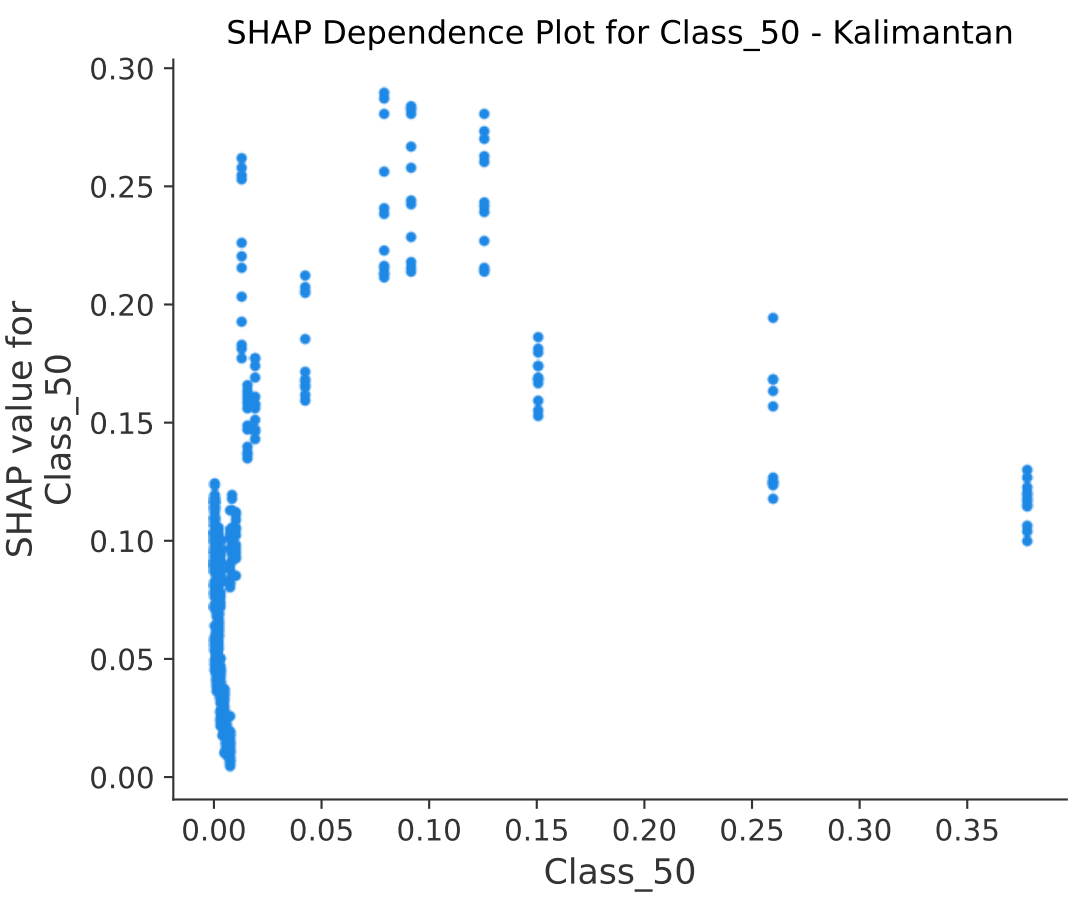

SHAP Beeswarm Plot for Class 2 - Kalimantan
evaporative_stress_index_lag3
Class_40
Class_80
Class_60
DMI
Class_50
ANOM4
Class_20
DMI_lag1
Class_30
Class_95
temperature_2m_max_lag3
ANOM1+2
precipitation
total_evaporation_sum_lag3
Class_90
ANOM3
ANOM4_lag1
ANOM3_lag2
DMI_East_lag3
−0.4
−0.2
0.0
0.2
0.4
SHAP value (impact on model output)
High
Feature value
Low


SHAP Dependence Plot for Class_60 - Kalimantan
SHAP value for Class_60
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.0000
0.0025
0.0050
0.0075
0.0100
0.0125
0.0150
0.0175
Class_60


SHAP Dependence Plot for evaporative_stress_index_lag3 - Kalimantan
SHAP value for evaporative_stress_index_lag3
0.20
0.15
0.10
0.05
0.00
0.2
0.3
0.4
0.5
0.6
evaporative_stress_index_lag3


SHAP Dependence Plot for Class_40 - Kalimantan
SHAP value for Class_40
0.00
0.05
0.10
0.15
0.20
0.00
0.05
0.10
0.15
0.20
0.25
Class_40


SHAP Dependence Plot for Class_80 - Kalimantan
SHAP value for Class_80
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.0
0.1
0.2
0.3
0.4
0.5
Class_80


SHAP Dependence Plot for Class_50 - Kalimantan
SHAP value for Class_50
Class_50
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35