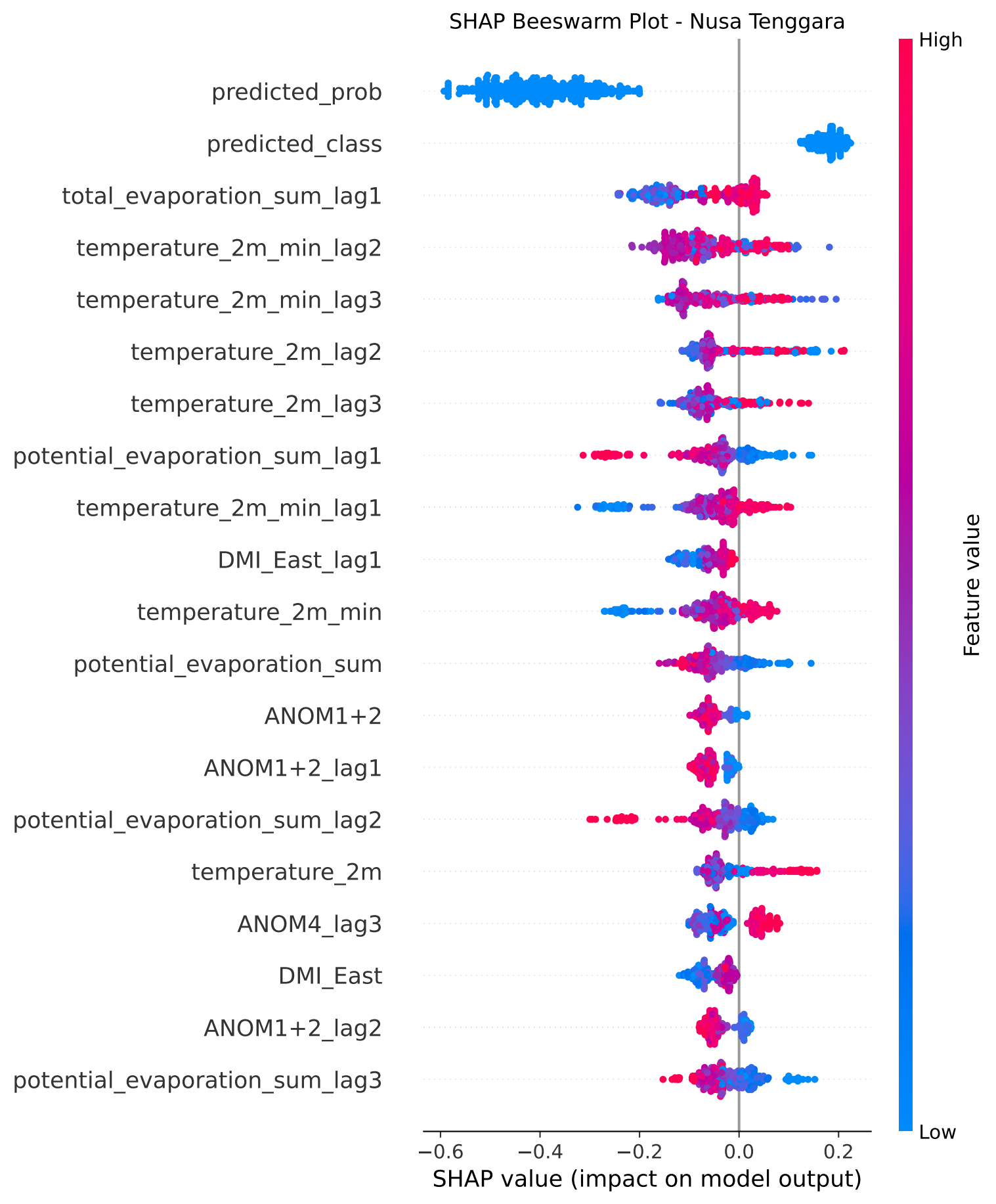
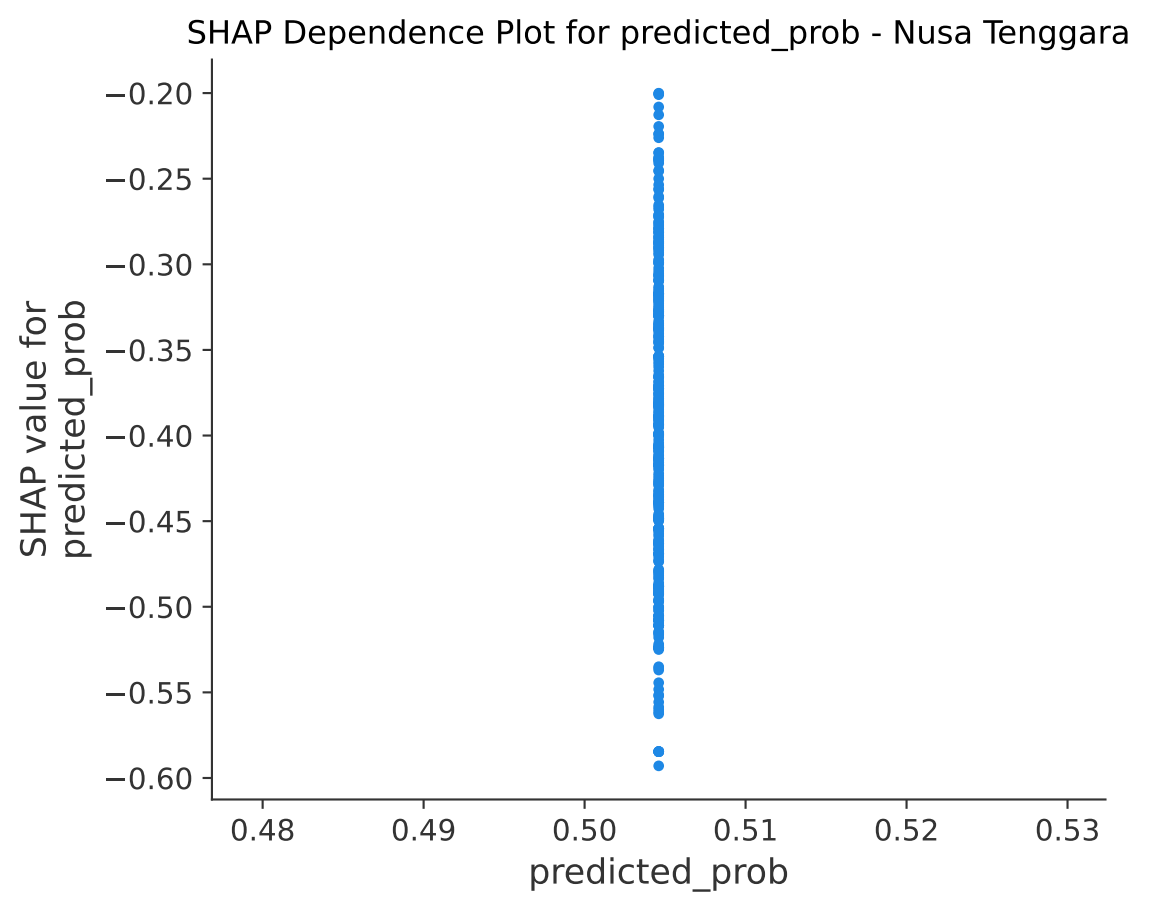
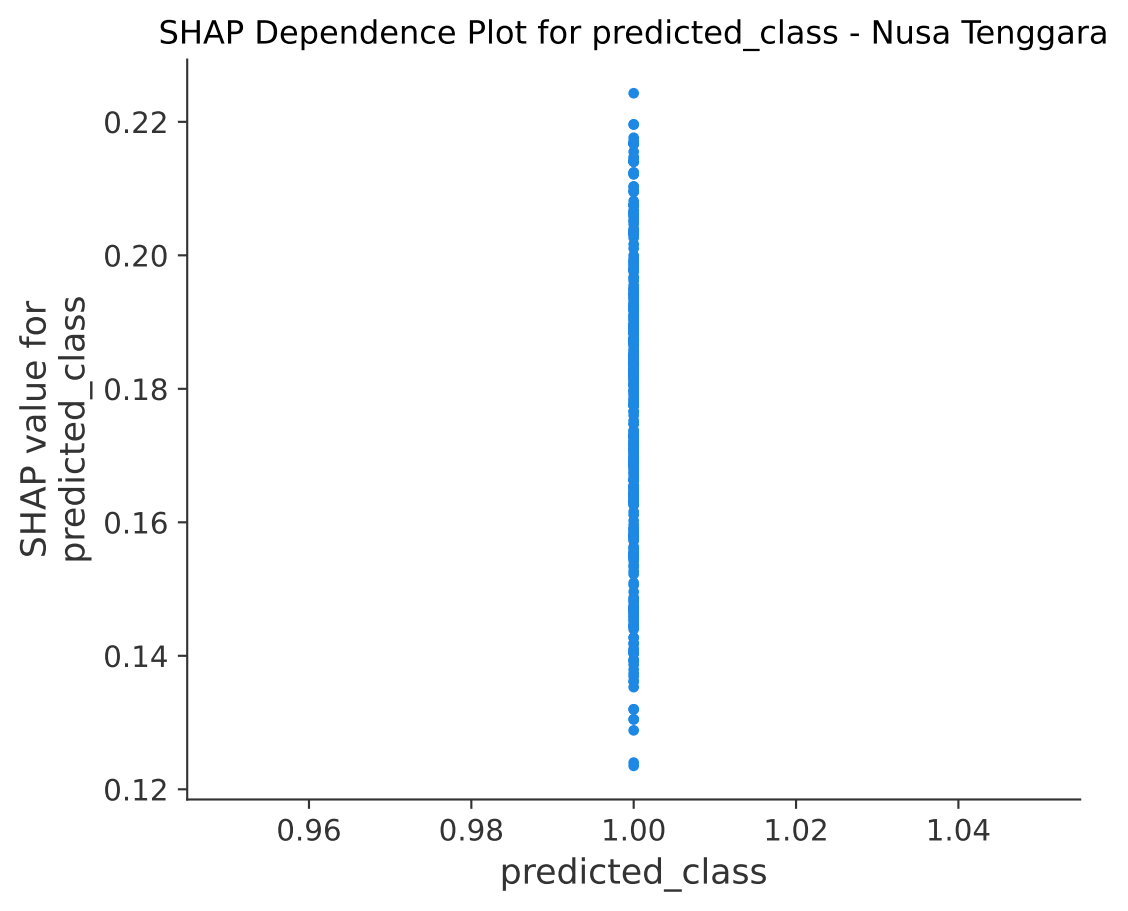
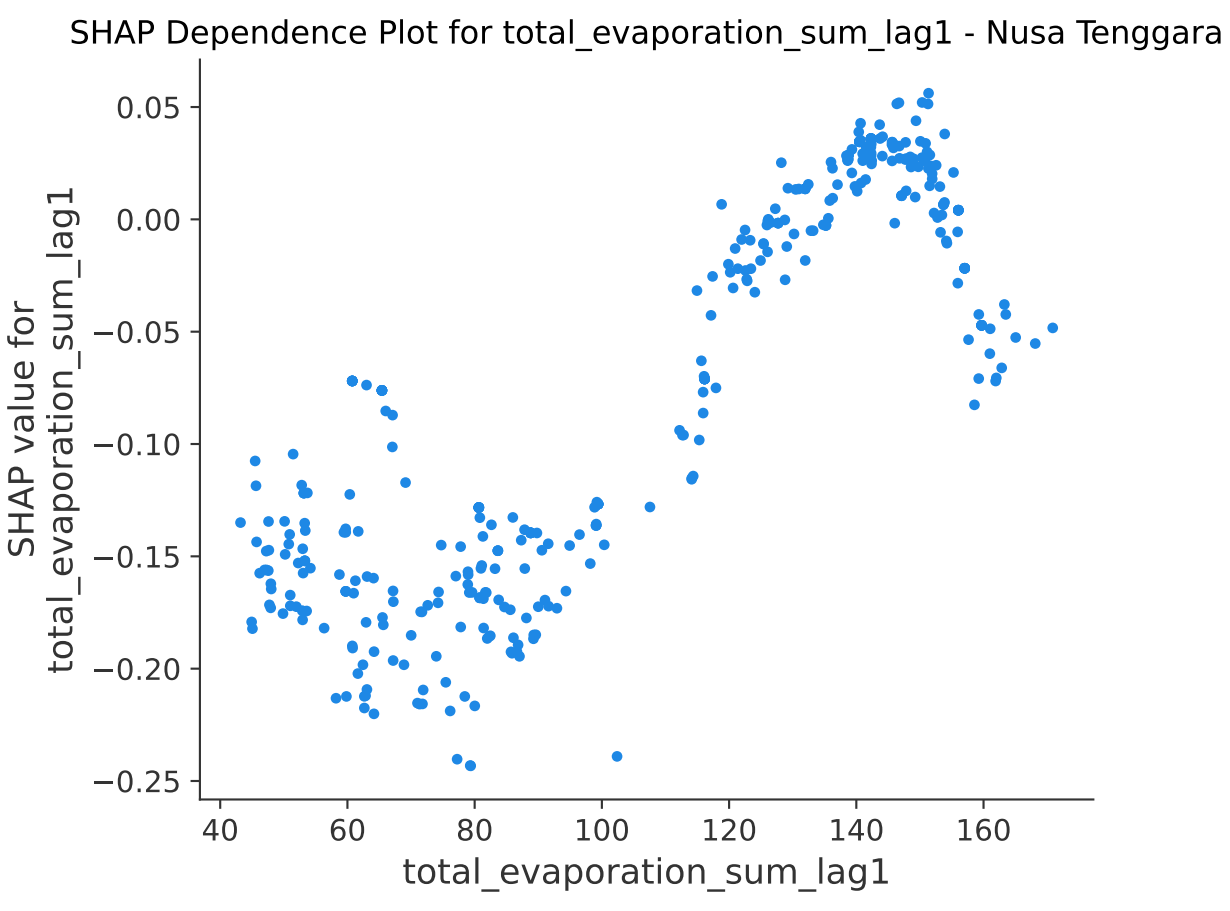
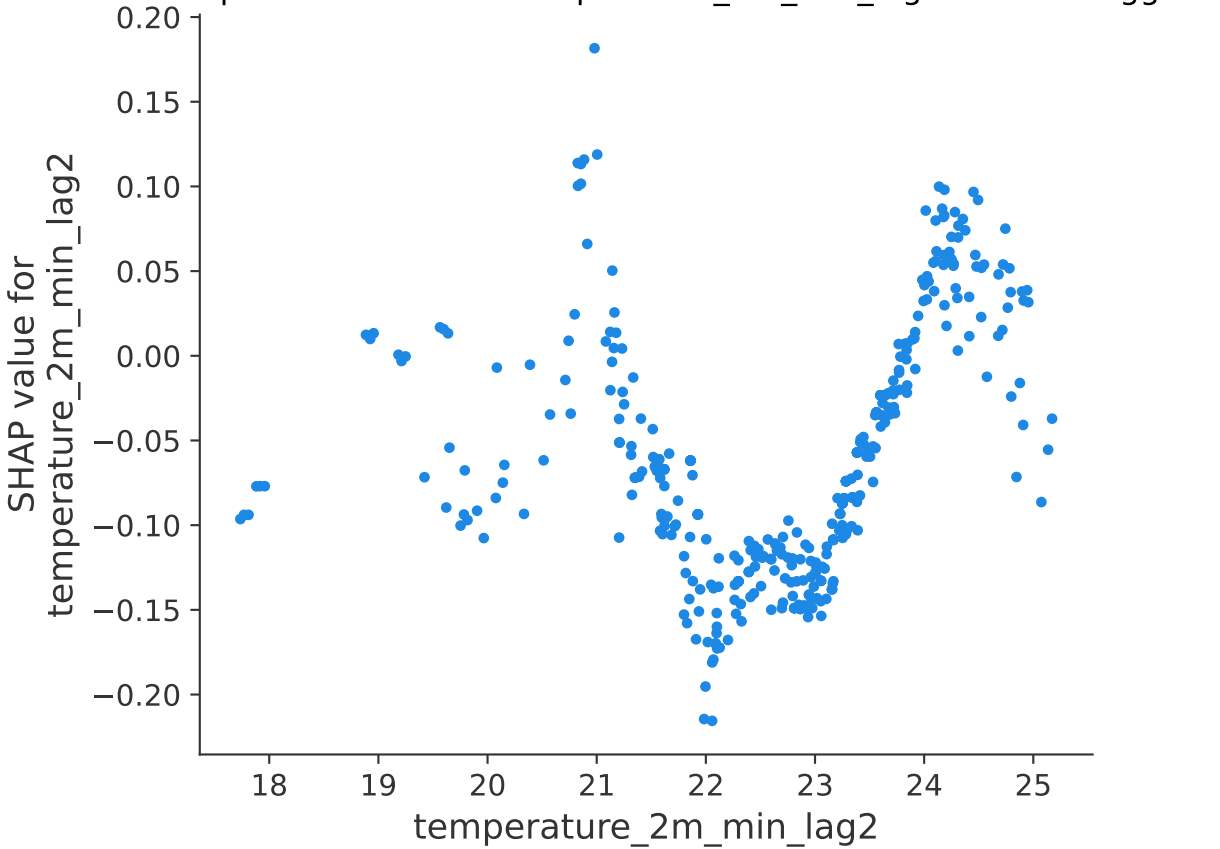
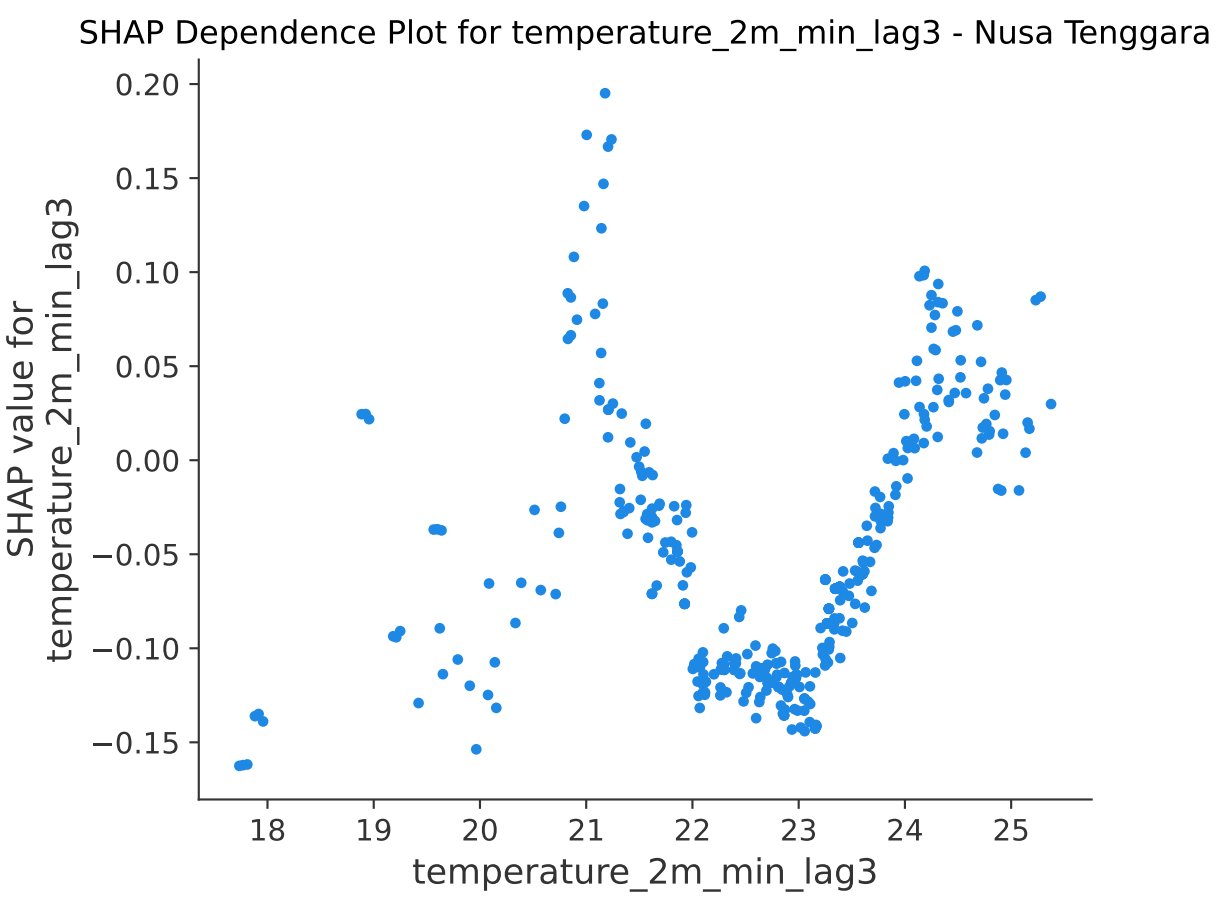

SHAP Beeswarm Plot - Nusa Tenggara
predicted_prob
predicted_class
total_evaporation_sum_lag1
temperature_2m_min_lag2
temperature_2m_min_lag3
temperature_2m_lag2
temperature_2m_lag3
potential_evaporation_sum_lag1
temperature_2m_min_lag1
DMI_East_lag1
temperature_2m_min
potential_evaporation_sum
ANOM1+2
ANOM1+2_lag1
potential_evaporation_sum_lag2
temperature_2m
ANOM4_lag3
DMI_East
ANOM1+2_lag2
potential_evaporation_sum_lag3
−0.6
−0.4
−0.2
0.0
0.2
SHAP value (impact on model output)
High
Feature value
Low

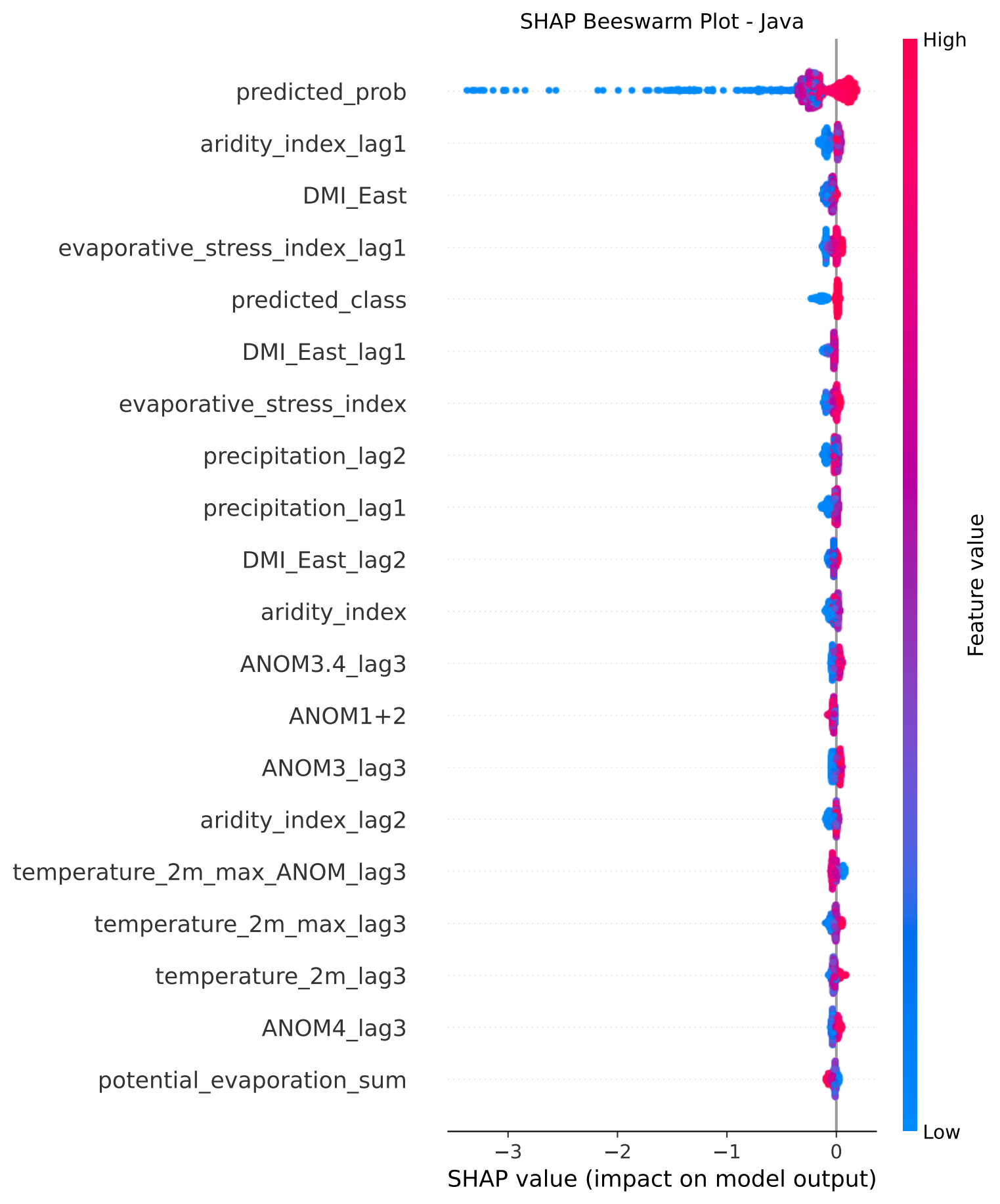

SHAP Dependence Plot for predicted_prob - Nusa Tenggara
SHAP value for predicted_prob
−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
−0.50
−0.55
−0.60
0.48
0.49
0.50
0.51
0.52
0.53
predicted_prob

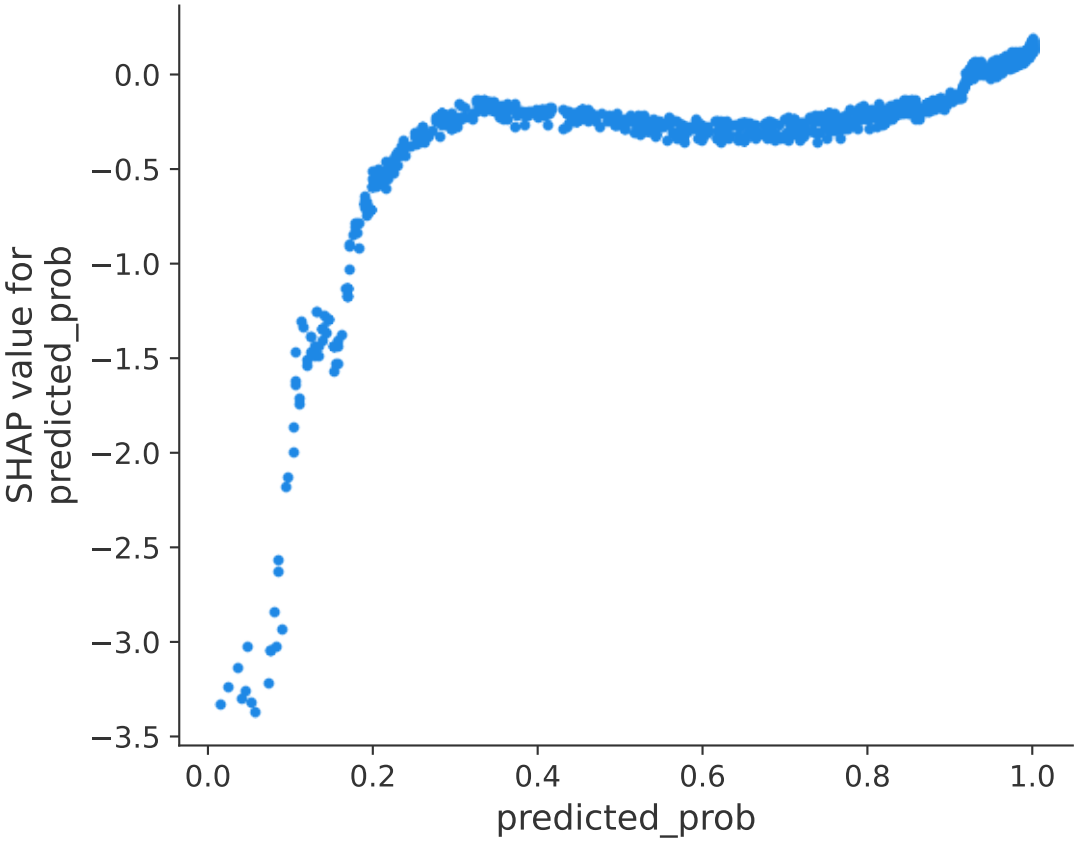

SHAP Dependence Plot for predicted_class - Nusa Tenggara
SHAP value for predicted_class
0.22
0.20
0.18
0.16
0.14
0.12
0.96
0.98
1.00
1.02
1.04
predicted_class

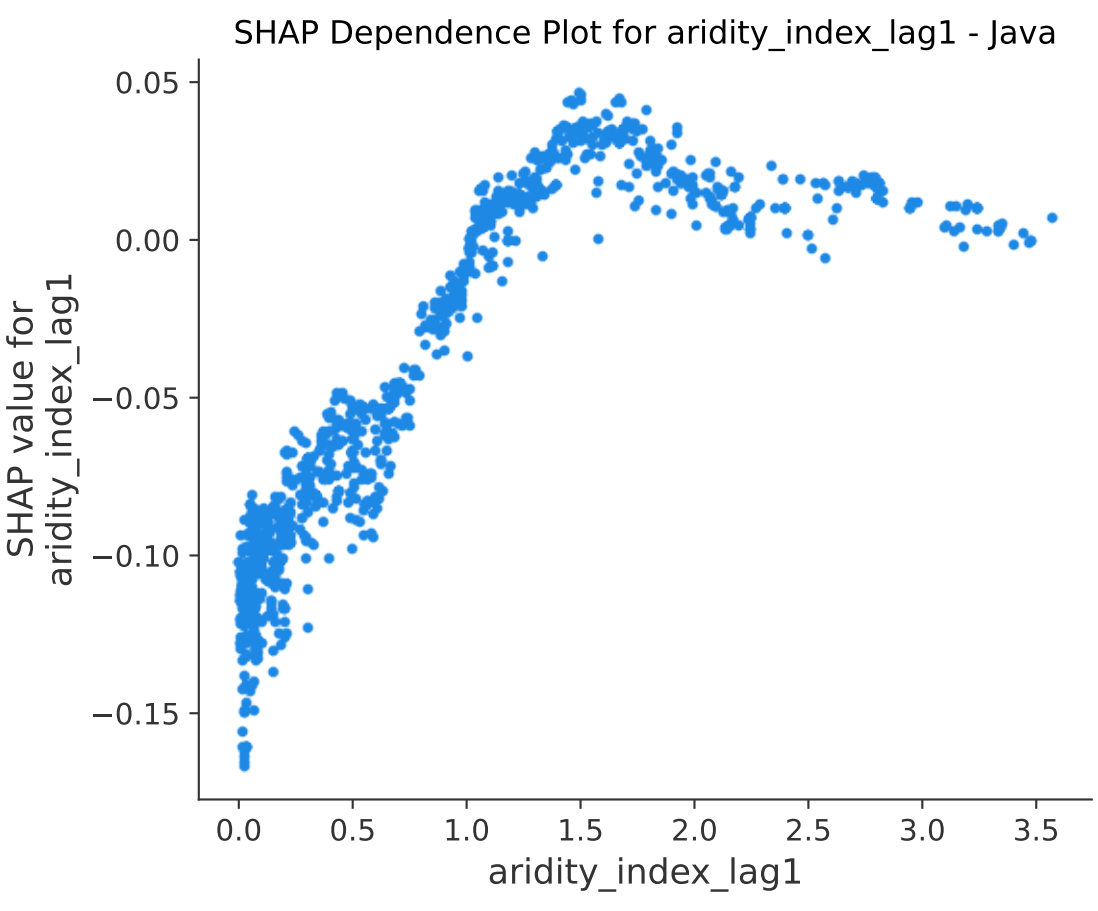

SHAP Dependence Plot for total_evaporation_sum_lag1 - Nusa Tenggara
SHAP value for total_evaporation_sum_lag1
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
40
60
80
100
120
140
160
total_evaporation_sum_lag1

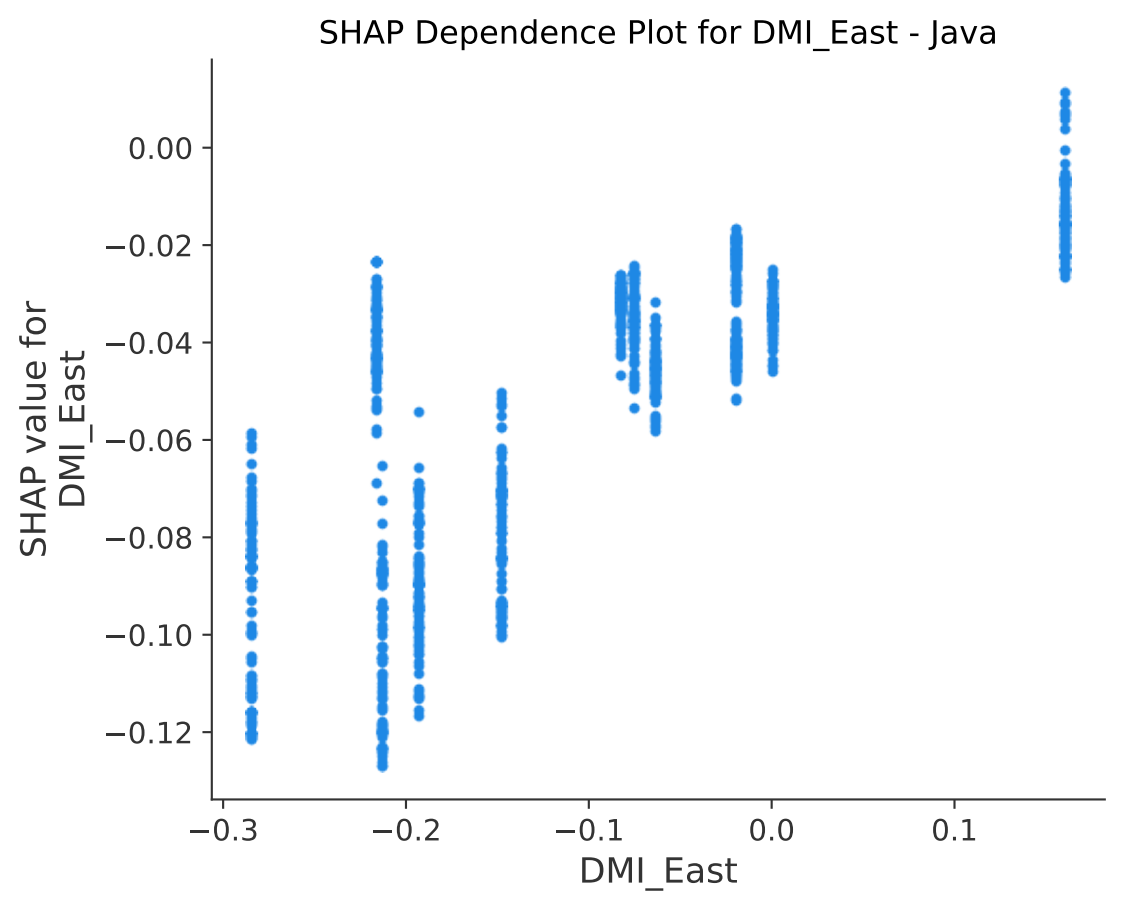

SHAP Dependence Plot for temperature_2m_min_lag2 - Nusa Tenggara
SHAP value for temperature_2m_min_lag2
temperature_2m_min_lag2
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
18
19
20
21
22
23
24
25

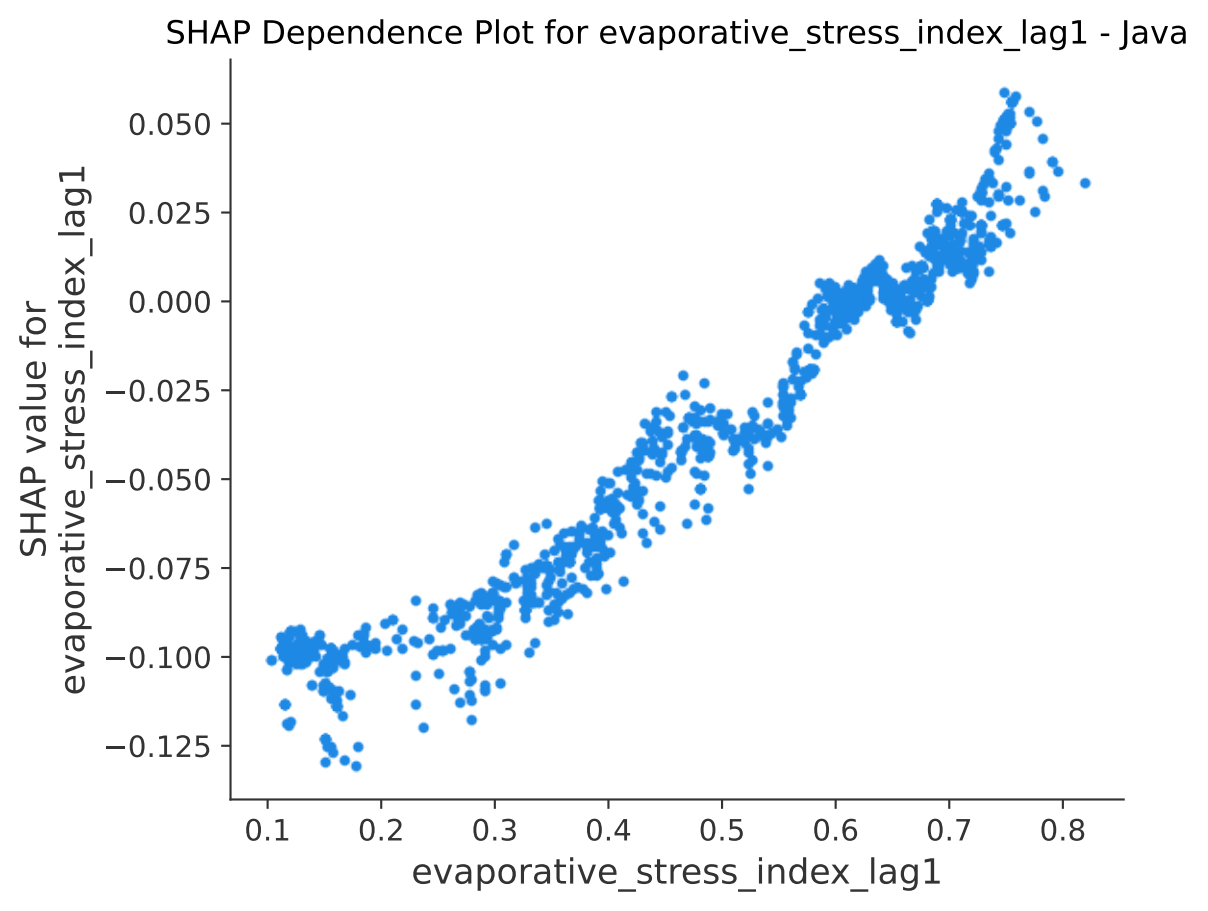

SHAP Dependence Plot for temperature_2m_min_lag3 - Nusa Tenggara
SHAP value for temperature_2m_min_lag3
temperature_2m_min_lag3
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
18
19
20
21
22
23
24
25

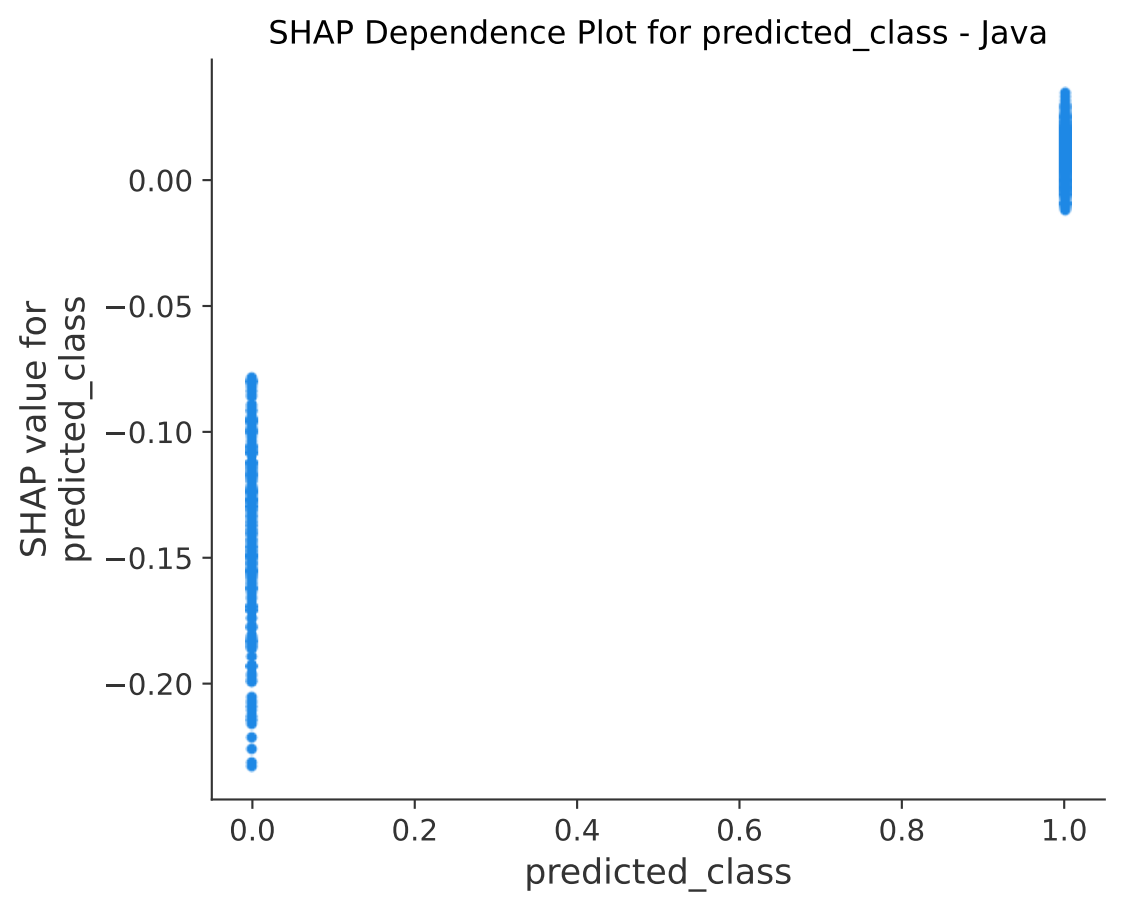

SHAP Beeswarm Plot - Java
predicted_prob
aridity_index_lag1
DMI_East
evaporative_stress_index_lag1
predicted_class
DMI_East_lag1
evaporative_stress_index
precipitation_lag2
precipitation_lag1
DMI_East_lag2
aridity_index
ANOM3.4_lag3
ANOM1+2
ANOM3_lag3
aridity_index_lag2
temperature_2m_max_ANOM_lag3
temperature_2m_max_lag3
temperature_2m_lag3
ANOM4_lag3
potential_evaporation_sum
−3
−2
−1
0
SHAP value (impact on model output)
High
Feature value
Low

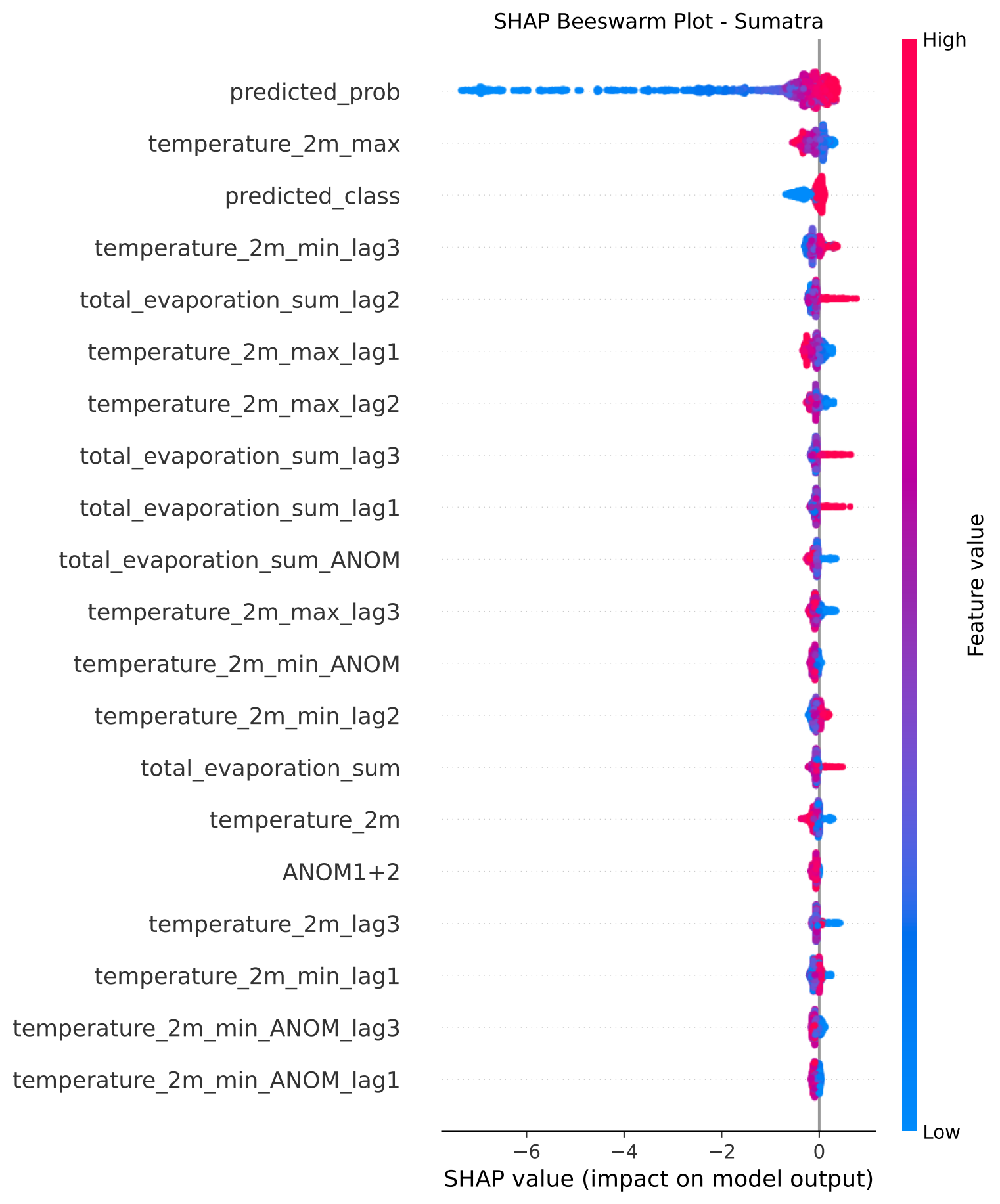

SHAP Dependence Plot for predicted_prob - Java
SHAP value for predicted_prob
predicted_prob
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
0.0
0.2
0.4
0.6
0.8
1.0

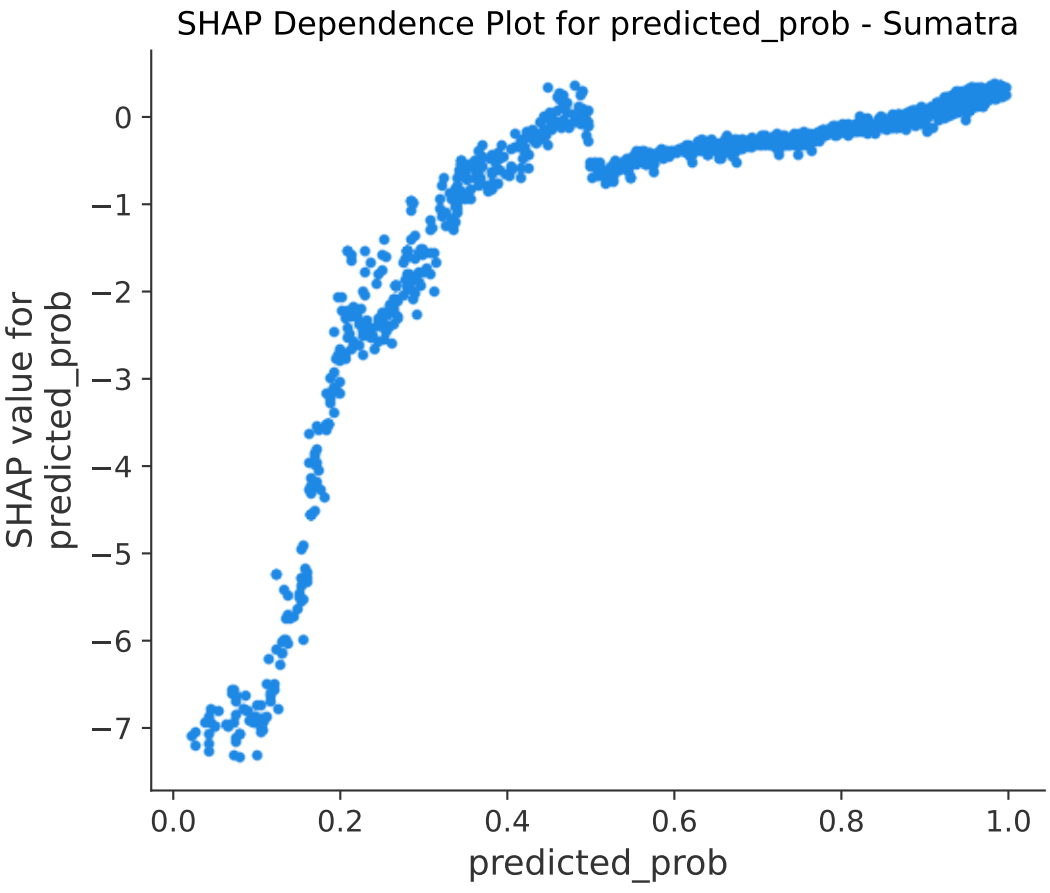

SHAP Dependence Plot for aridity_index_lag1 - Java
SHAP value for aridity_index_lag1
aridity_index_lag1
0.05
0.00
−0.05
−0.10
−0.15
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5

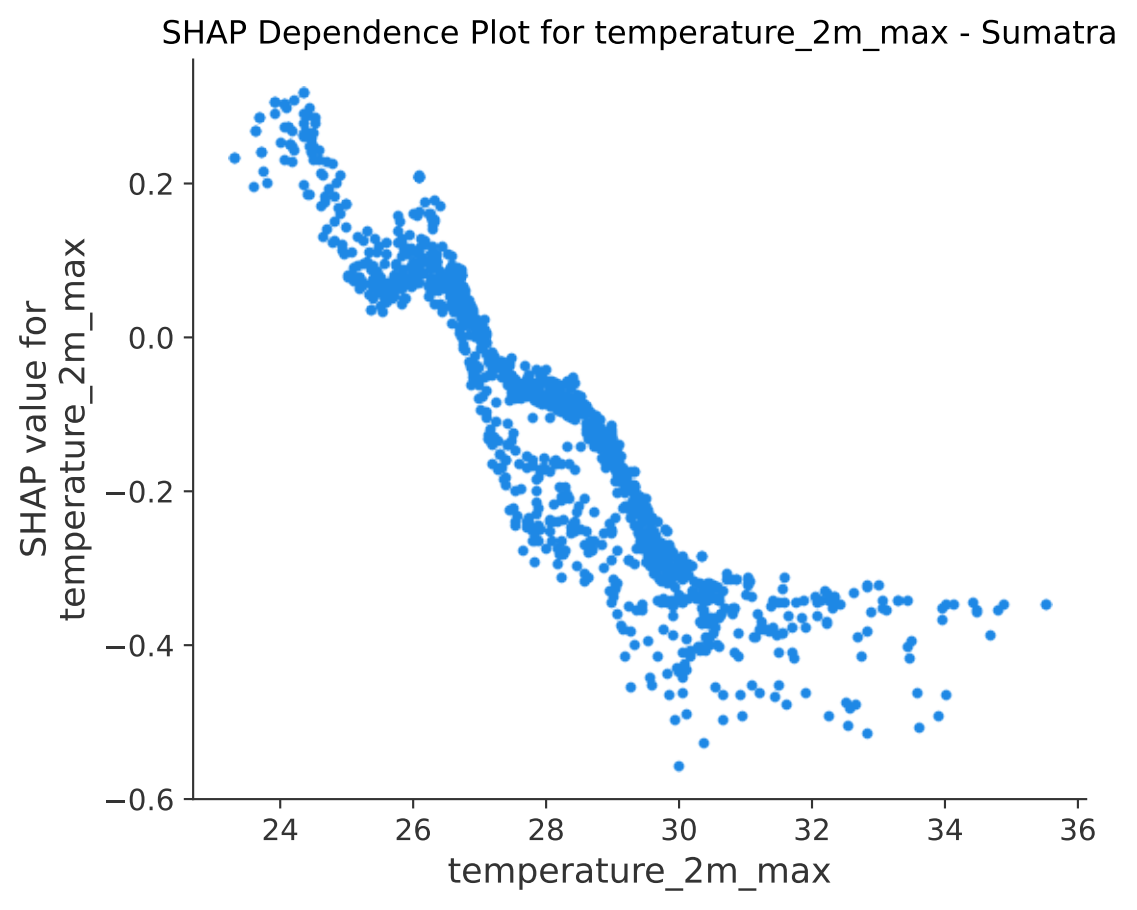

SHAP Dependence Plot for DMI_East - Java
SHAP value for DMI_East
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.3
−0.2
−0.1
0.0
0.1
DMI_East

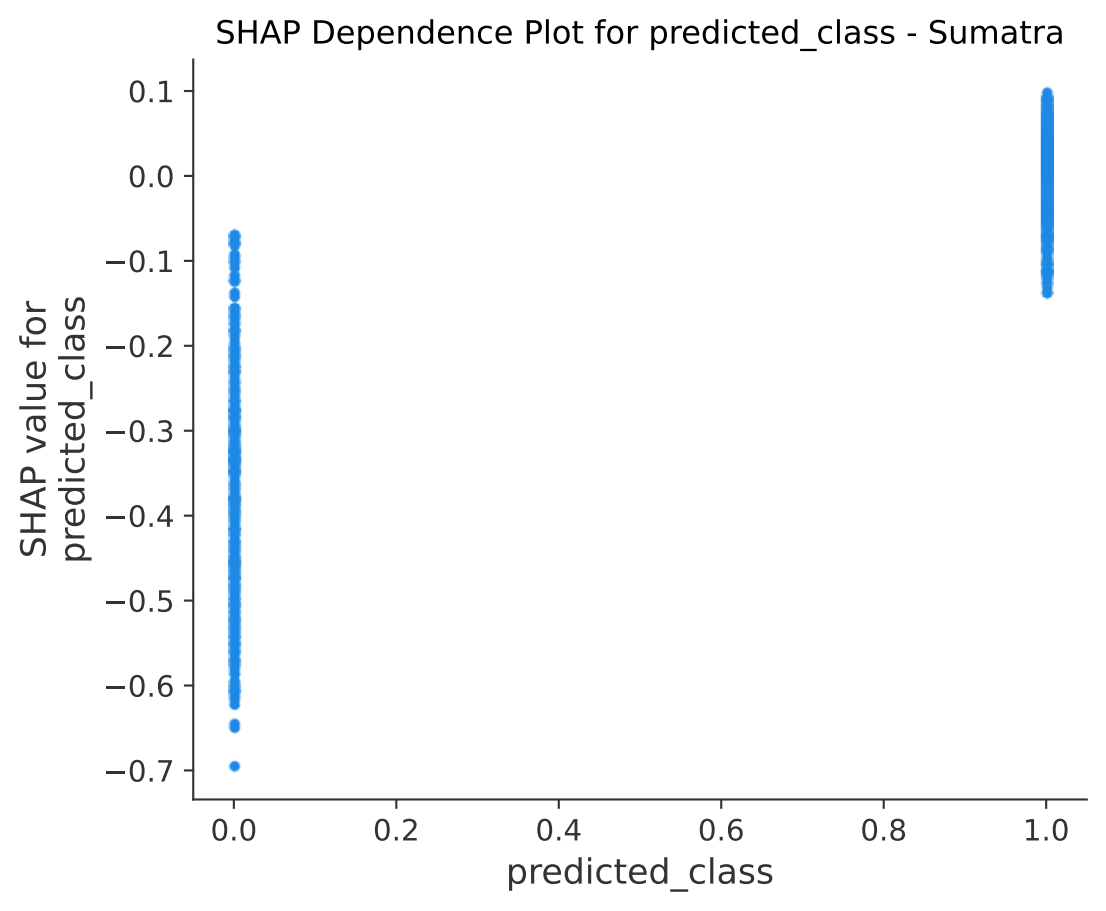

SHAP Dependence Plot for evaporative_stress_index_lag1 - Java
SHAP value for evaporative_stress_index_lag1
0.050
0.025
0.000
−0.025
−0.050
−0.075
−0.100
−0.125
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
evaporative_stress_index_lag1

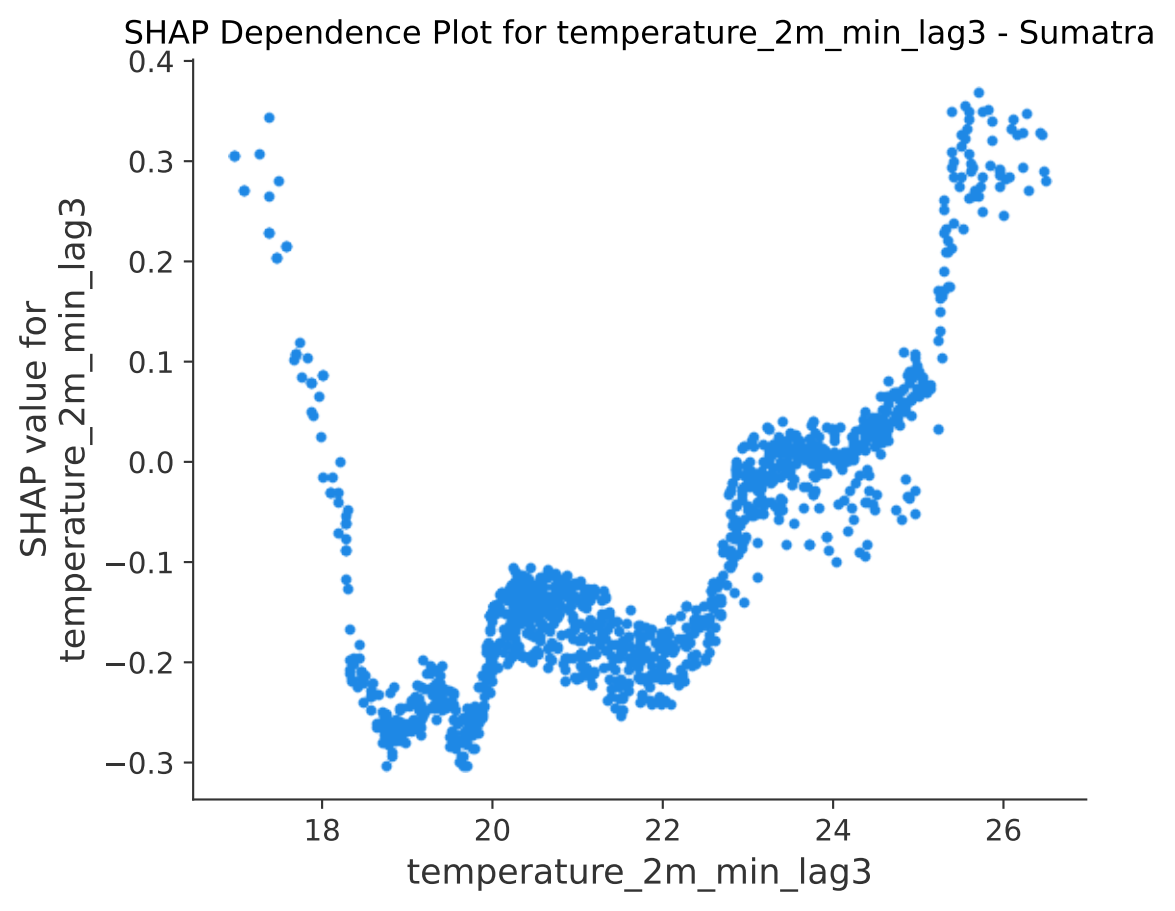

SHAP Dependence Plot for predicted_class - Java
SHAP value for predicted_class
0.00
−0.05
−0.10
−0.15
−0.20
0.0
0.2
0.4
0.6
0.8
1.0
predicted_class

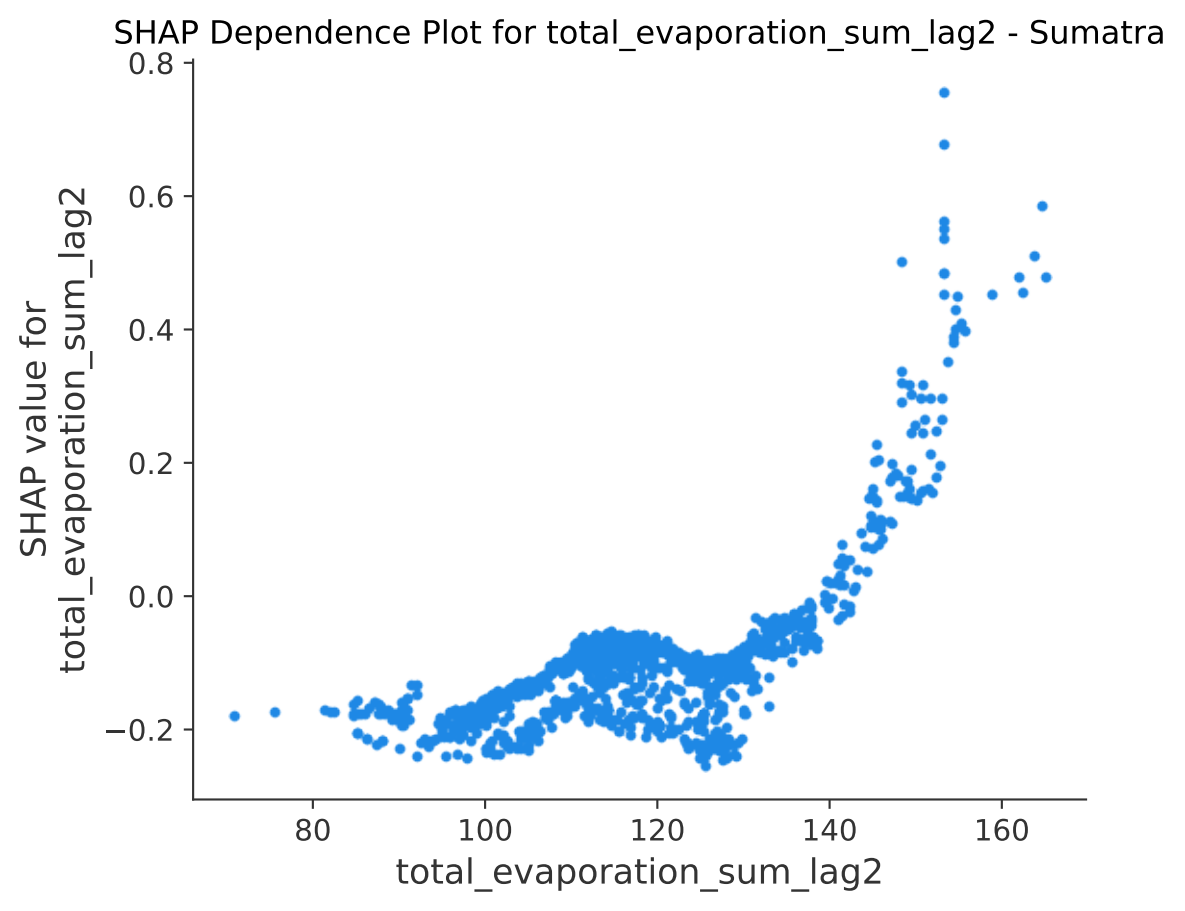

SHAP Beeswarm Plot - Sumatra
predicted_prob
temperature_2m_max
predicted_class
temperature_2m_min_lag3
total_evaporation_sum_lag2
temperature_2m_max_lag1
temperature_2m_max_lag2
total_evaporation_sum_lag3
total_evaporation_sum_lag1
total_evaporation_sum_ANOM
temperature_2m_max_lag3
temperature_2m_min_ANOM
temperature_2m_min_lag2
total_evaporation_sum
temperature_2m
ANOM1+2
temperature_2m_lag3
temperature_2m_min_lag1
temperature_2m_min_ANOM_lag3
temperature_2m_min_ANOM_lag1
−6
−4
−2
0
SHAP value (impact on model output)
High
Feature value
Low

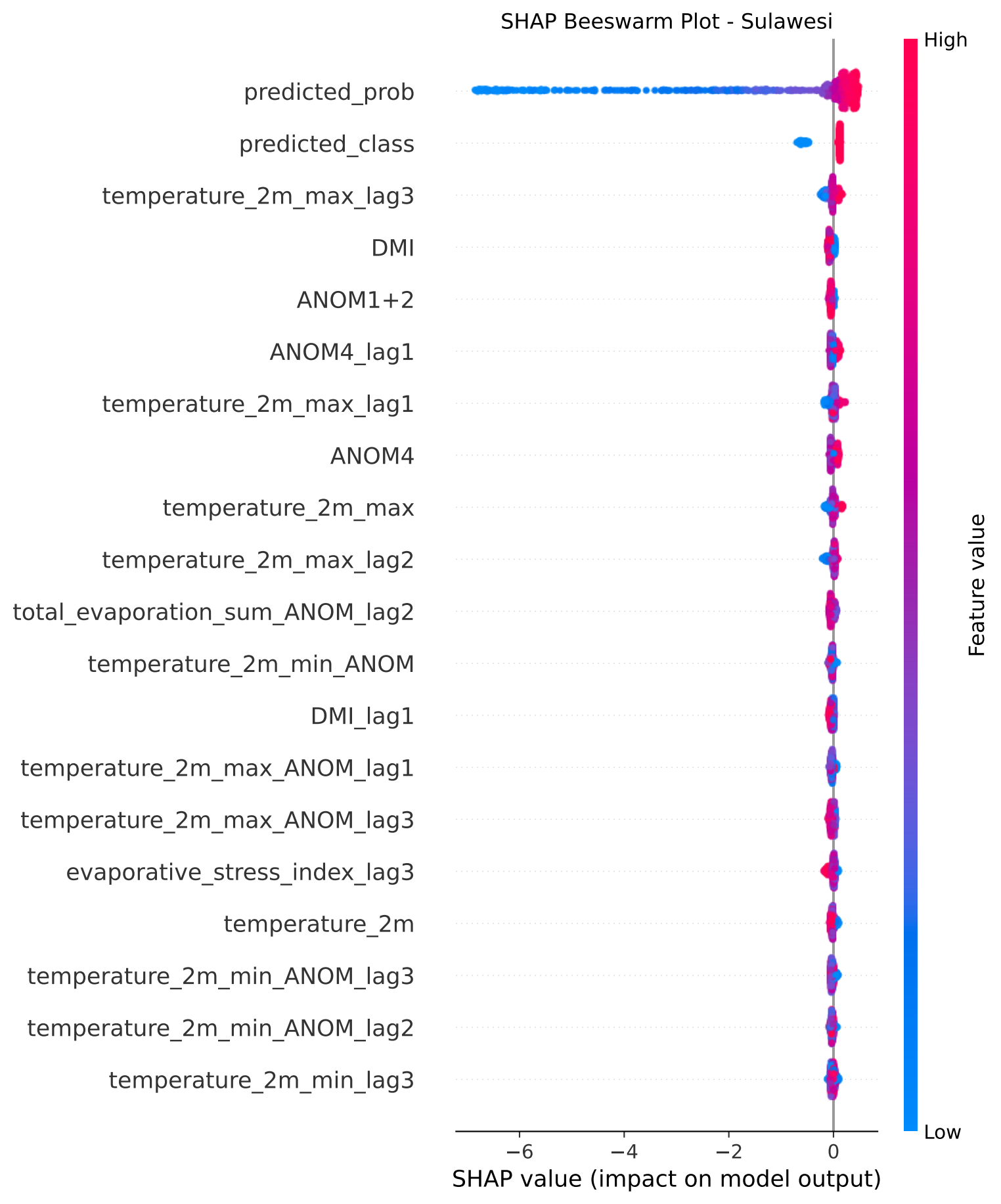

SHAP Dependence Plot for predicted_prob - Sumatra
SHAP value for predicted_prob
0
−1
−2
−3
−4
−5
−6
−7
0.0
0.2
0.4
0.6
0.8
1.0
predicted_prob

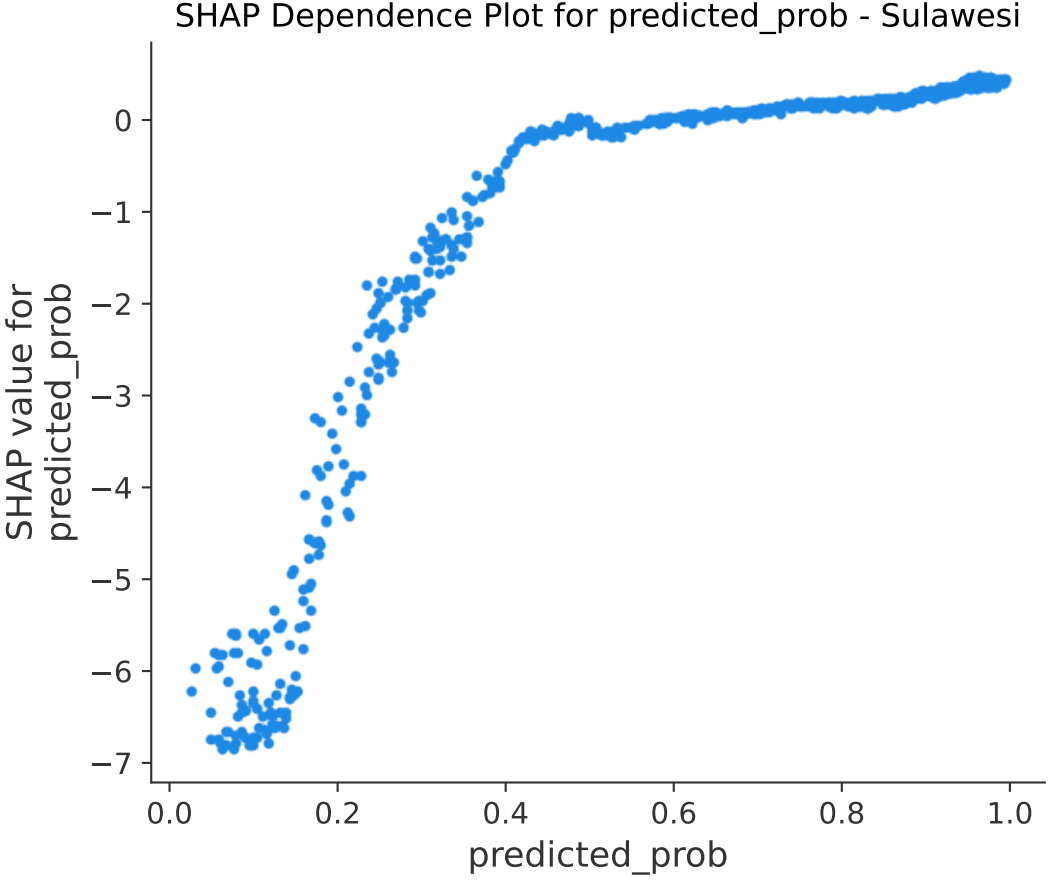

SHAP Dependence Plot for temperature_2m_max - Sumatra
SHAP value for temperature_2m_max
0.2
0.0
−0.2
−0.4
−0.6
24
26
28
30
32
34
36
temperature_2m_max

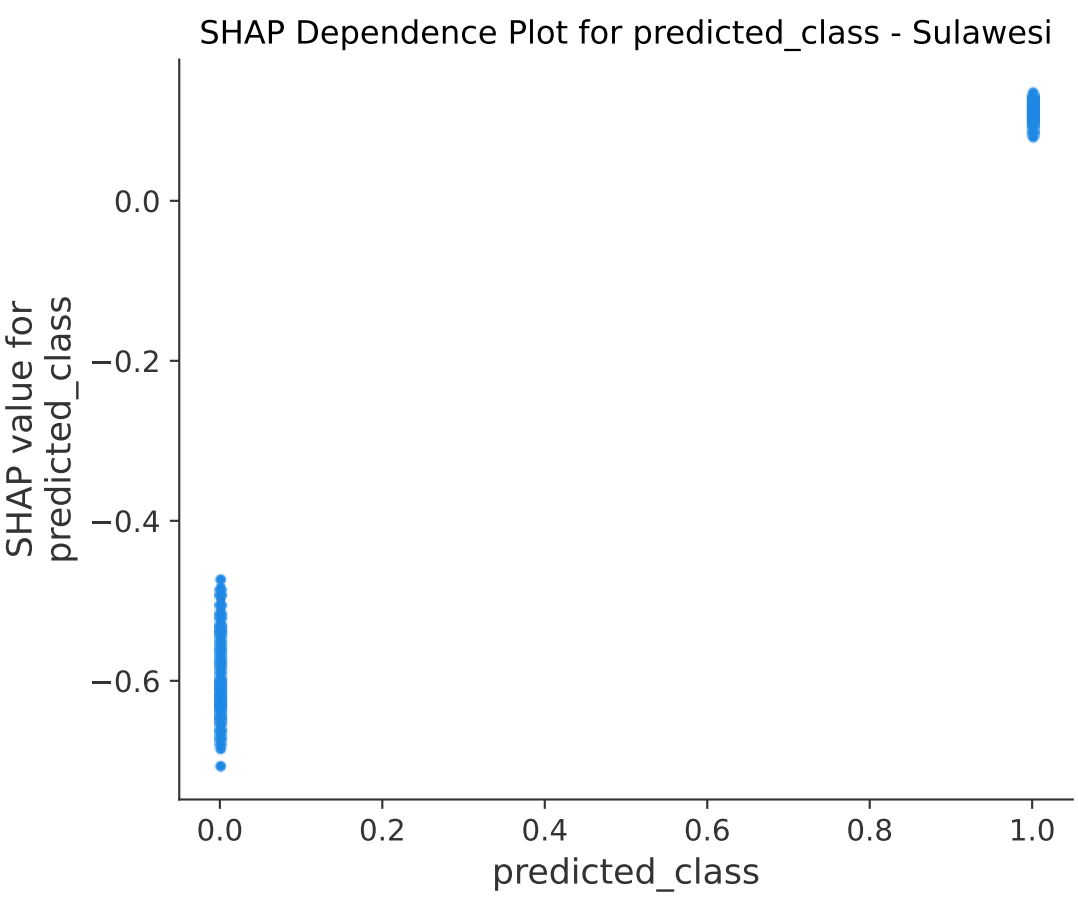

SHAP Dependence Plot for predicted_class - Sumatra
SHAP value for predicted_class
predicted_class
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0.0
0.2
0.4
0.6
0.8
1.0

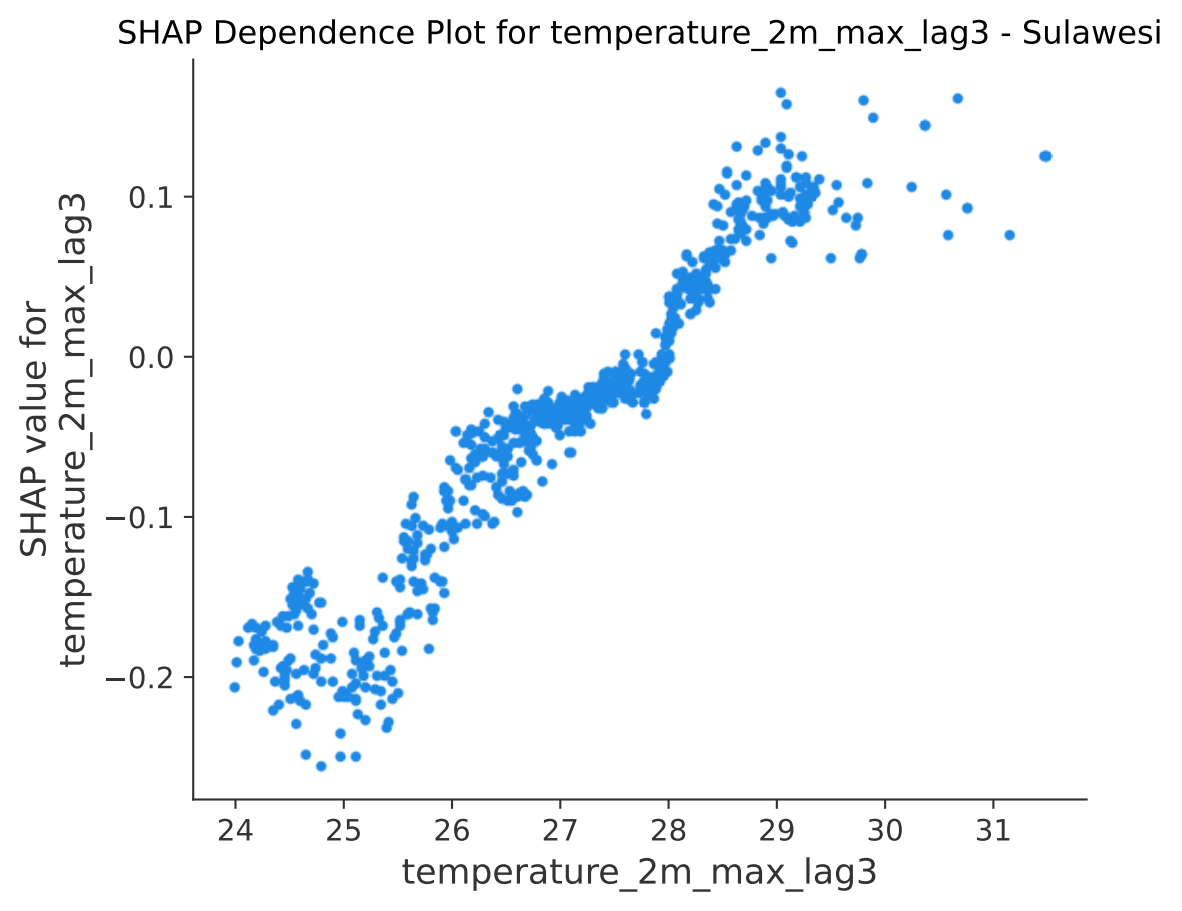

SHAP Dependence Plot for temperature_2m_min_lag3 - Sumatra
SHAP value for temperature_2m_min_lag3
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
18
20
22
24
26
temperature_2m_min_lag3

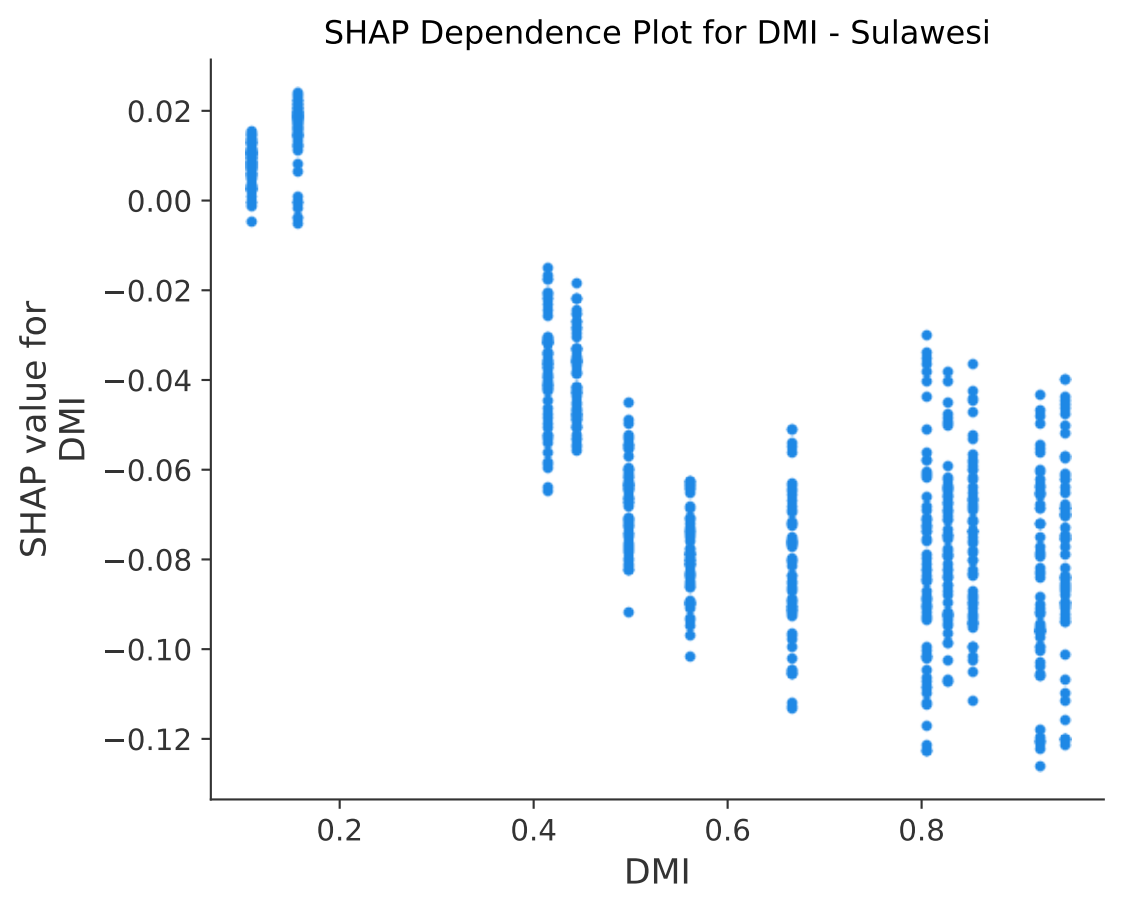

SHAP Dependence Plot for total_evaporation_sum_lag2 - Sumatra
SHAP value for
total_evaporation_sum_lag2
0.8
0.6
0.4
0.2
0.0
−0.2
80
100
120
140
160
total_evaporation_sum_lag2

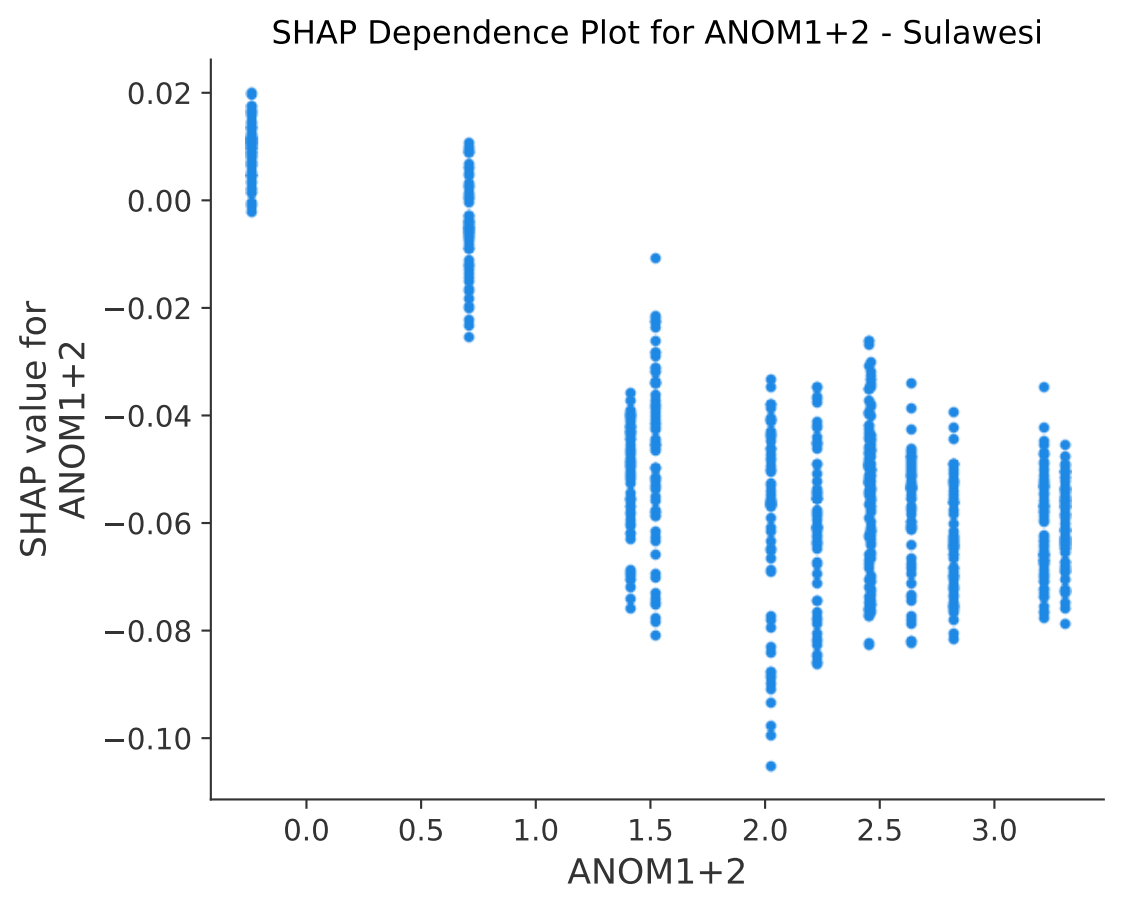

SHAP Beeswarm Plot - Sulawesi
predicted_prob
predicted_class
temperature_2m_max_lag3
DMI
ANOM1+2
ANOM4_lag1
temperature_2m_max_lag1
ANOM4
temperature_2m_max
temperature_2m_max_lag2
total_evaporation_sum_ANOM_lag2
temperature_2m_min_ANOM
DMI_lag1
temperature_2m_max_ANOM_lag1
temperature_2m_max_ANOM_lag3
evaporative_stress_index_lag3
temperature_2m
temperature_2m_min_ANOM_lag3
temperature_2m_min_ANOM_lag2
temperature_2m_min_lag3
−6
−4
−2
0
SHAP value (impact on model output)
High
Feature value
Low

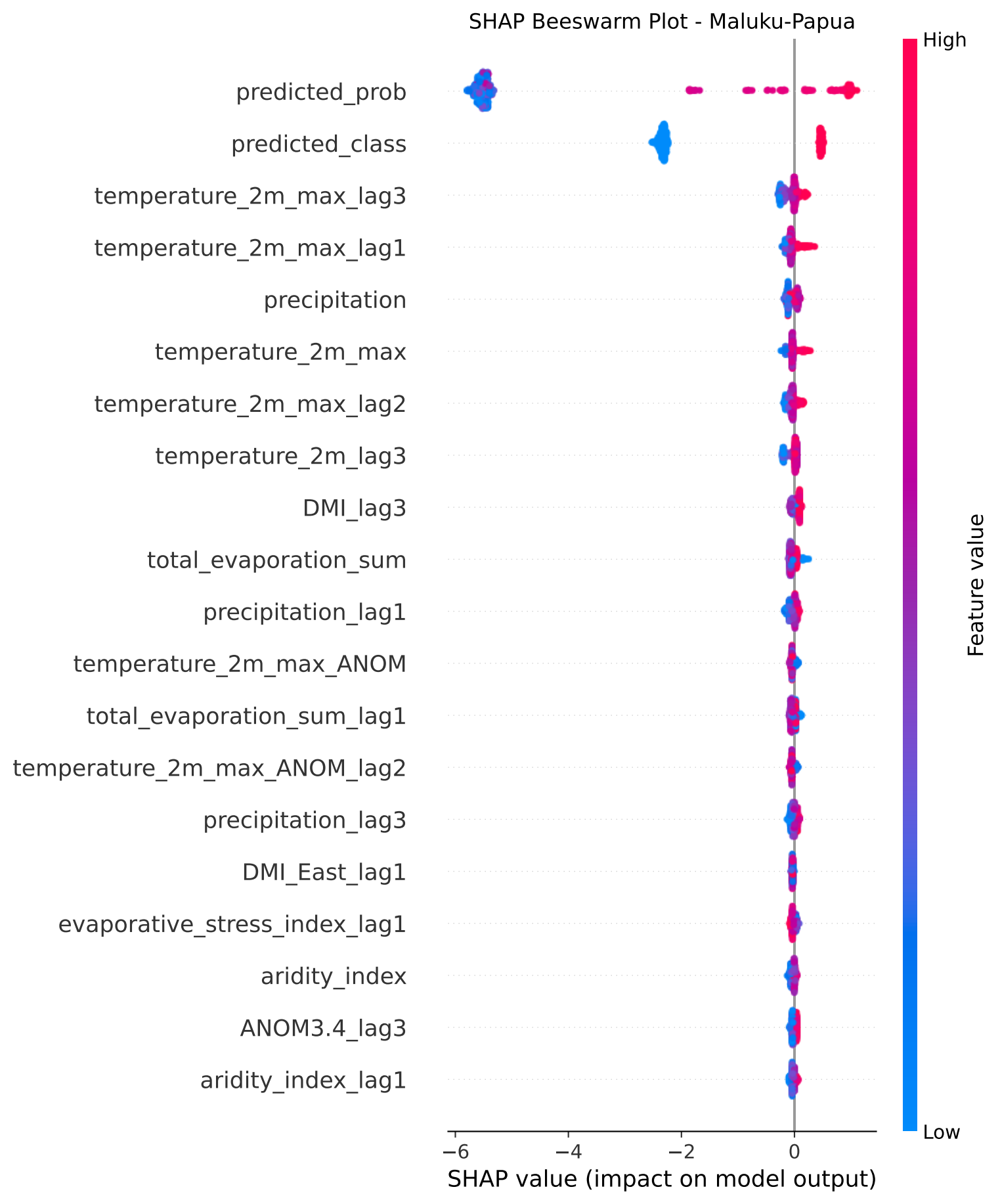

SHAP Dependence Plot for predicted_prob - Sulawesi
SHAP value for predicted_prob
predicted_prob
0
−1
−2
−3
−4
−5
−6
−7
0.0
0.2
0.4
0.6
0.8
1.0

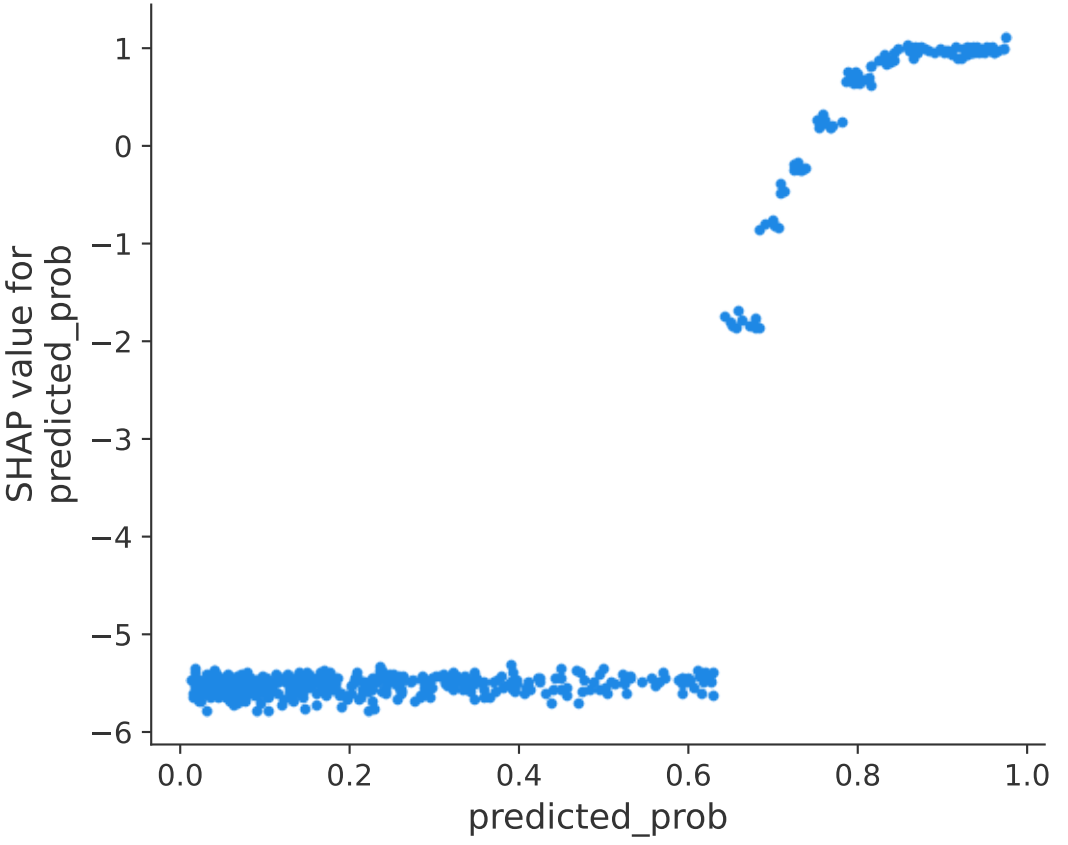

SHAP Dependence Plot for predicted_class - Sulawesi
SHAP value for predicted_class
0.0
−0.2
−0.4
−0.6
0.0
0.2
0.4
0.6
0.8
1.0
predicted_class

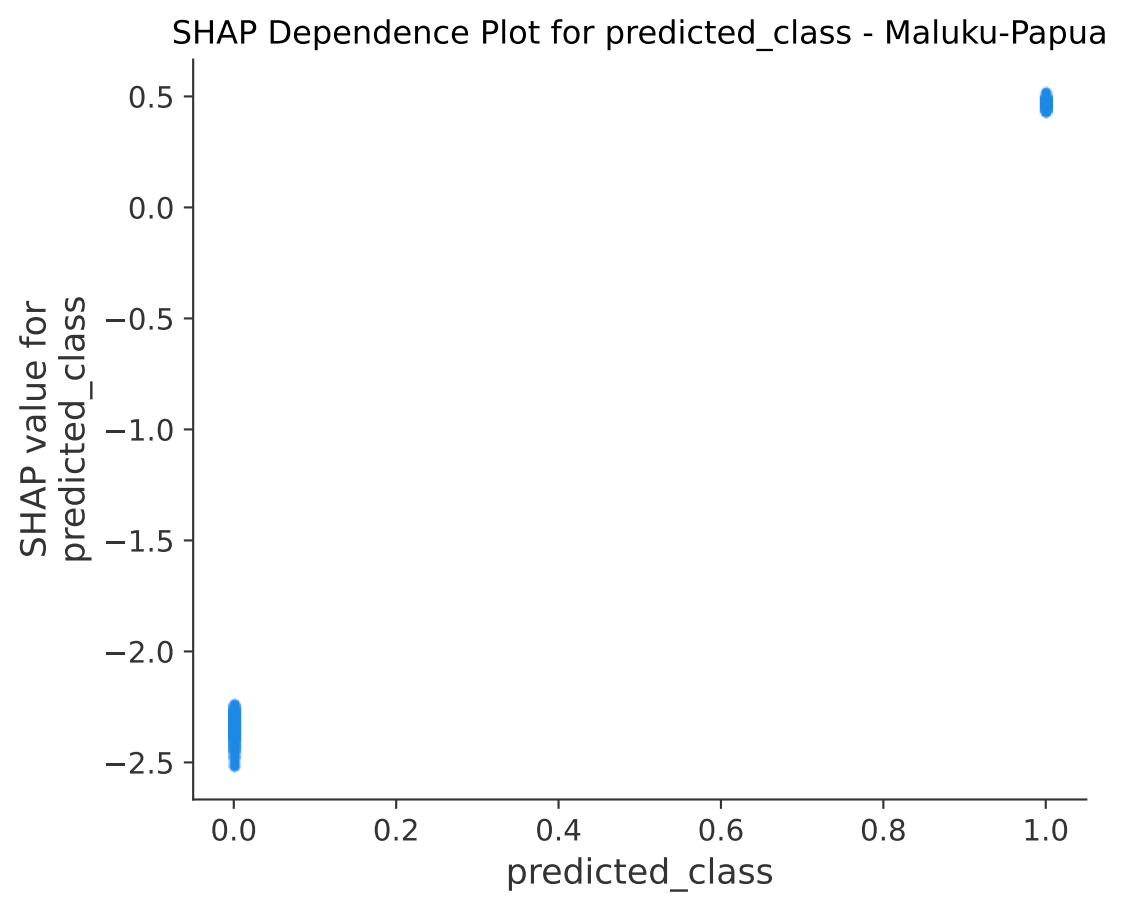

SHAP Dependence Plot for temperature_2m_max_lag3 - Sulawesi
SHAP value for temperature_2m_max_lag3
0.1
0.0
−0.1
−0.2
24
25
26
27
28
29
30
31
temperature_2m_max_lag3

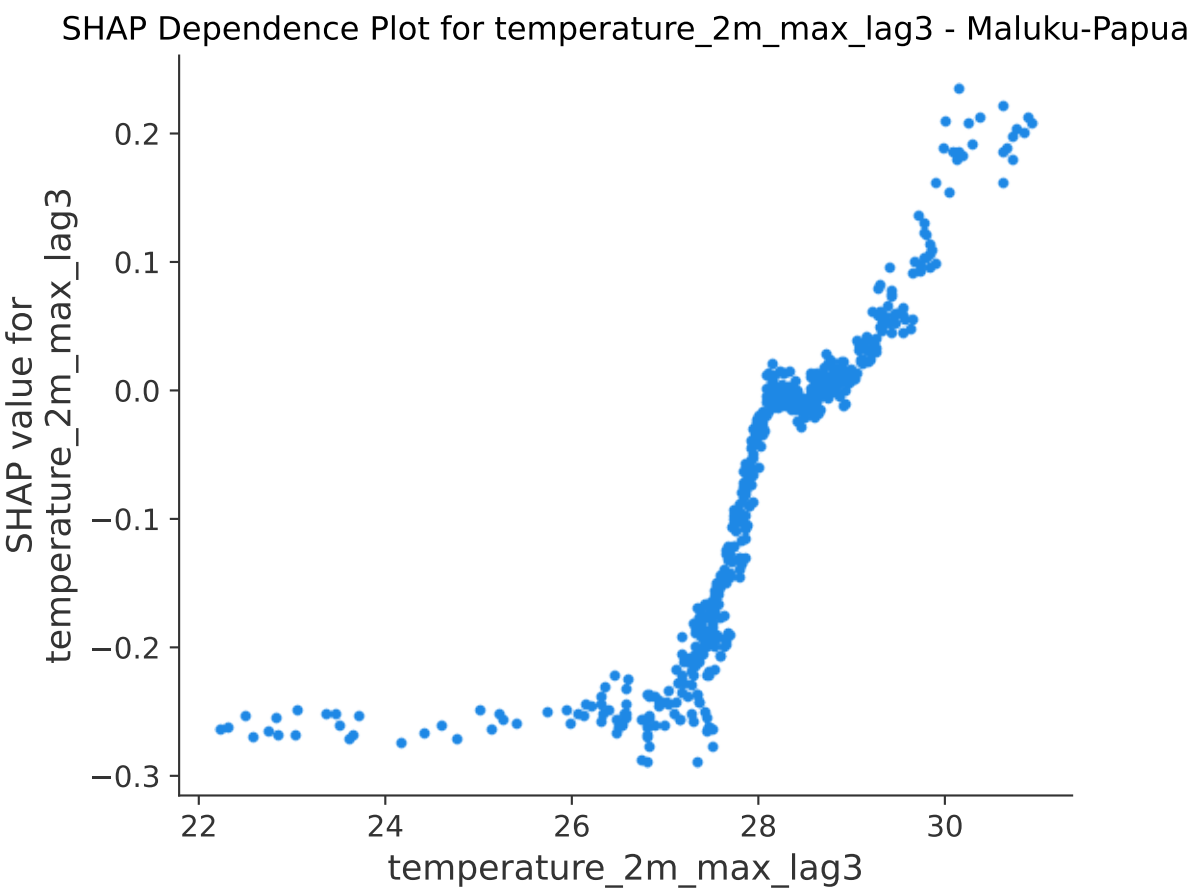

SHAP Dependence Plot for DMI - Sulawesi
SHAP value for DMI
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
0.2
0.4
0.6
0.8
DMI

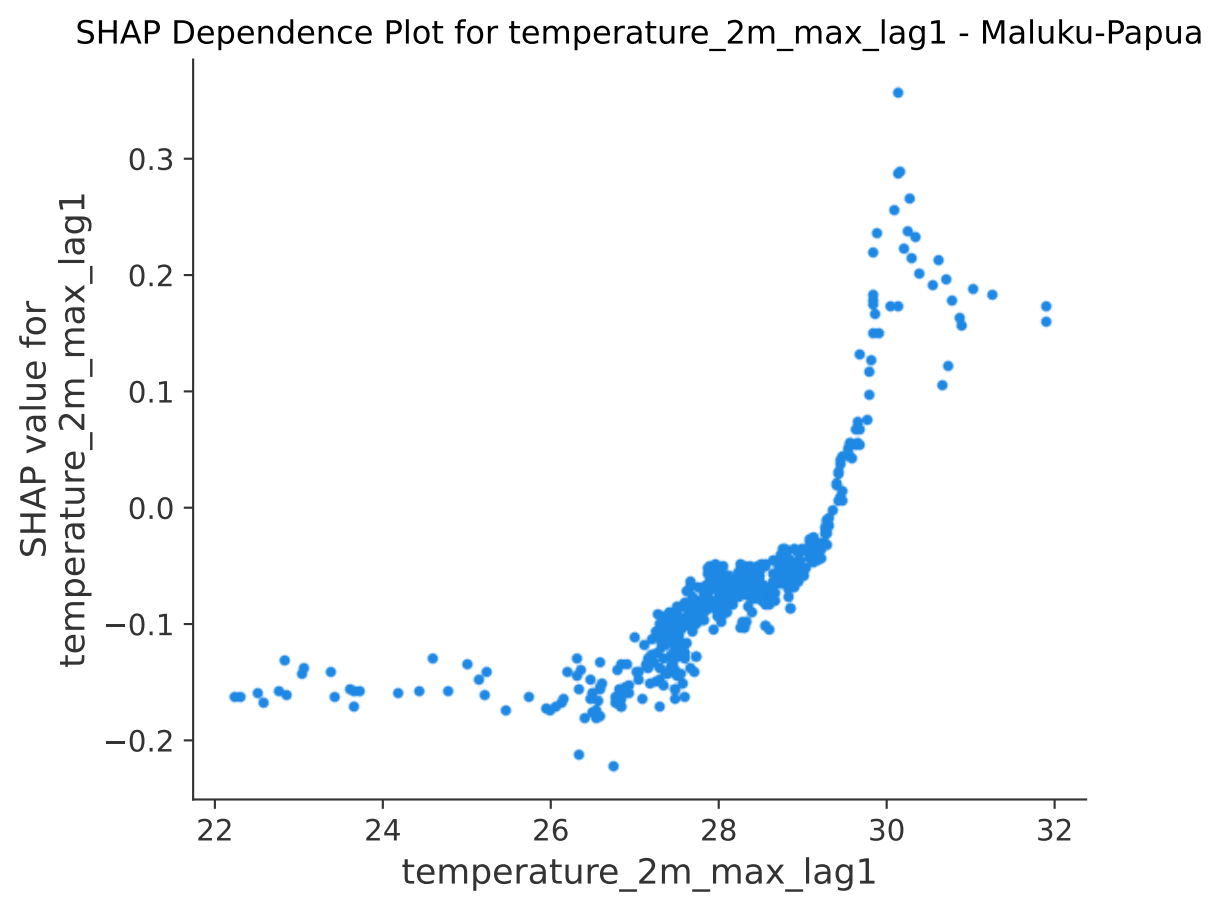

SHAP Dependence Plot for ANOM1+2 - Sulawesi
SHAP value for ANOM1+2
ANOM1+2
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
0.0
0.5
1.0
1.5
2.0
2.5
3.0

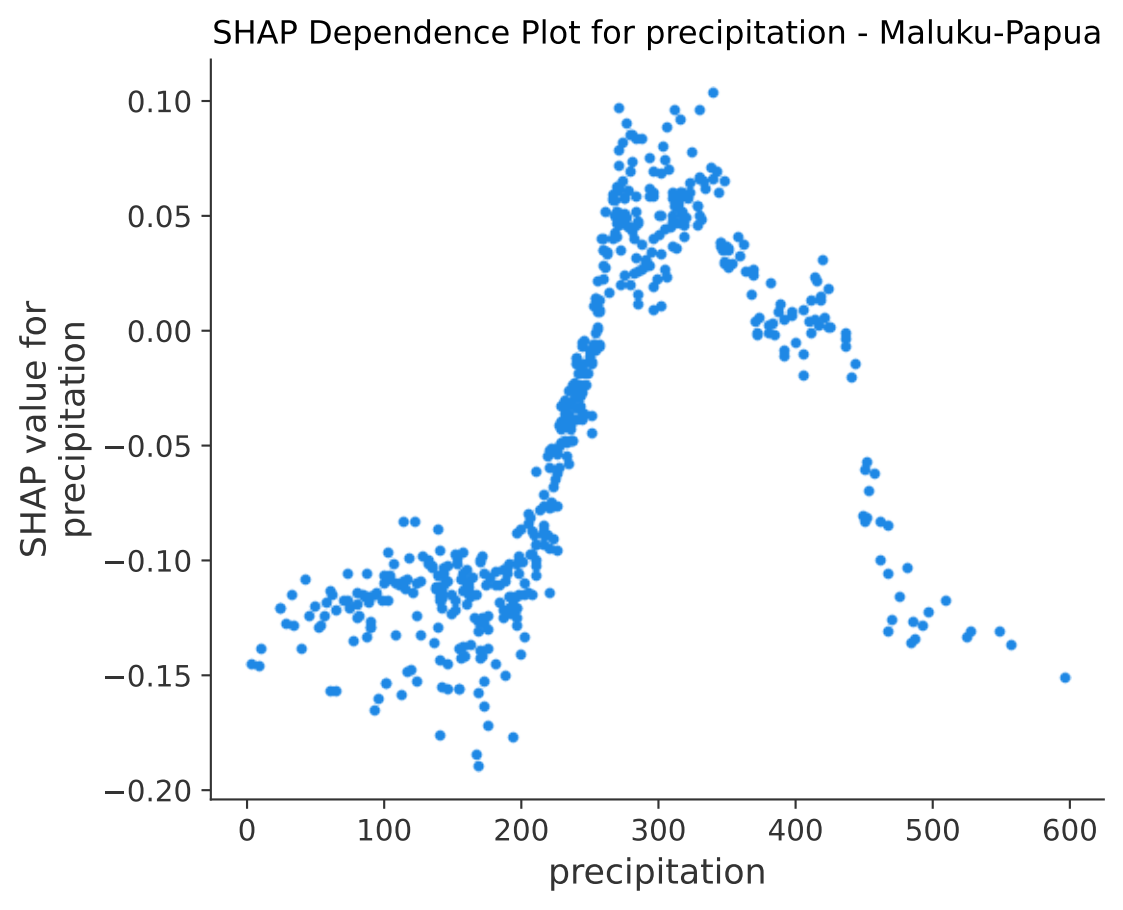

SHAP Beeswarm Plot - Maluku-Papua
predicted_prob
predicted_class
temperature_2m_max_lag3
temperature_2m_max_lag1
precipitation
temperature_2m_max
temperature_2m_max_lag2
temperature_2m_lag3
DMI_lag3
total_evaporation_sum
precipitation_lag1
temperature_2m_max_ANOM
total_evaporation_sum_lag1
temperature_2m_max_ANOM_lag2
precipitation_lag3
DMI_East_lag1
evaporative_stress_index_lag1
aridity_index
ANOM3.4_lag3
aridity_index_lag1
−6
−4
−2
0
SHAP value (impact on model output)
High
Feature value
Low

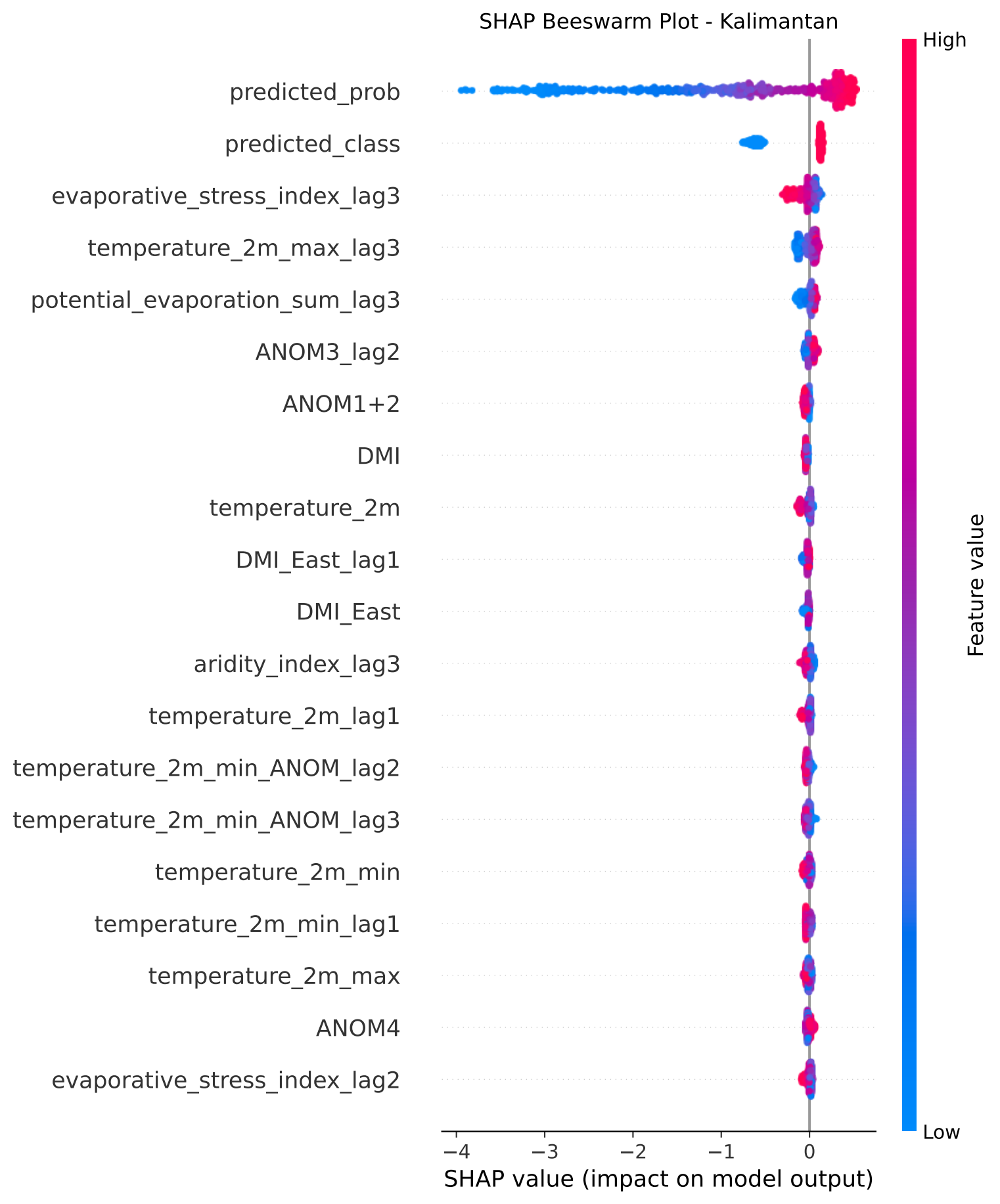

SHAP Dependence Plot for predicted_prob - Maluku-Papua
SHAP value for predicted_prob
predicted_prob
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0

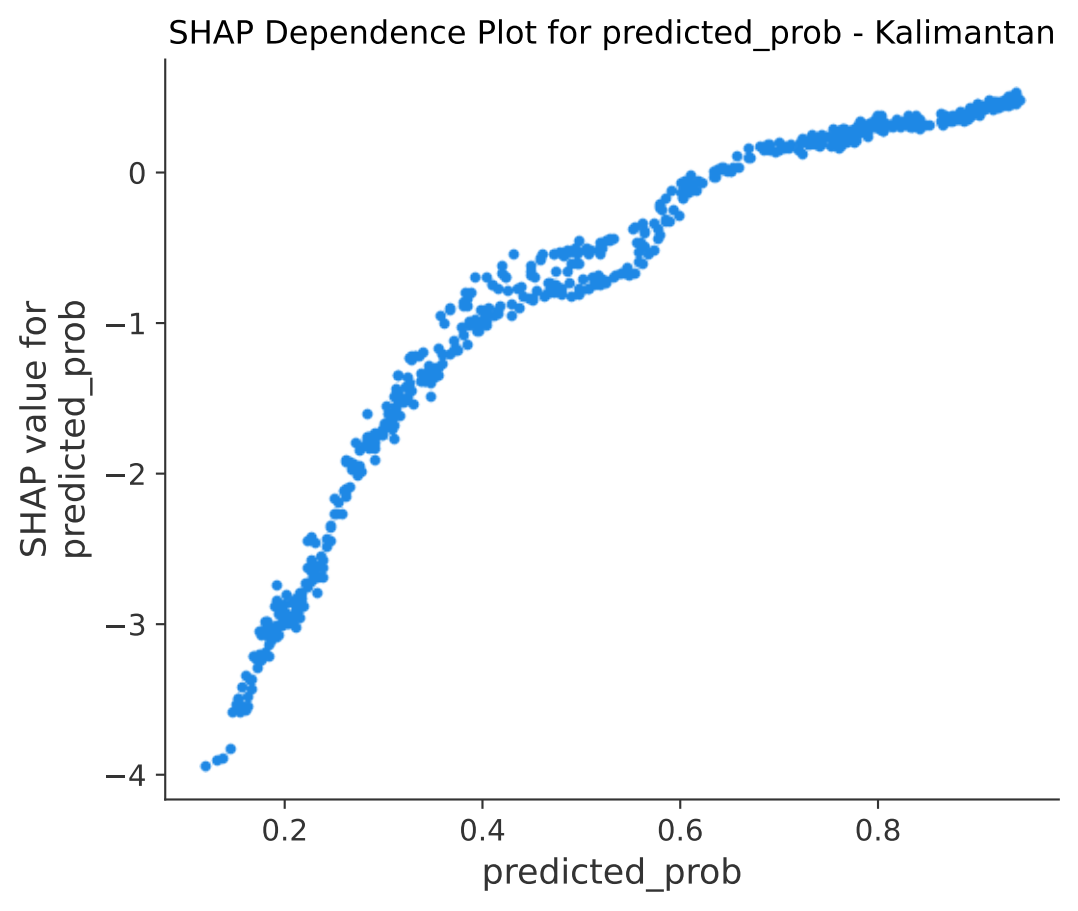

SHAP Dependence Plot for predicted_class - Maluku-Papua
SHAP value for predicted_class
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
0.0
0.2
0.4
0.6
0.8
1.0
predicted_class

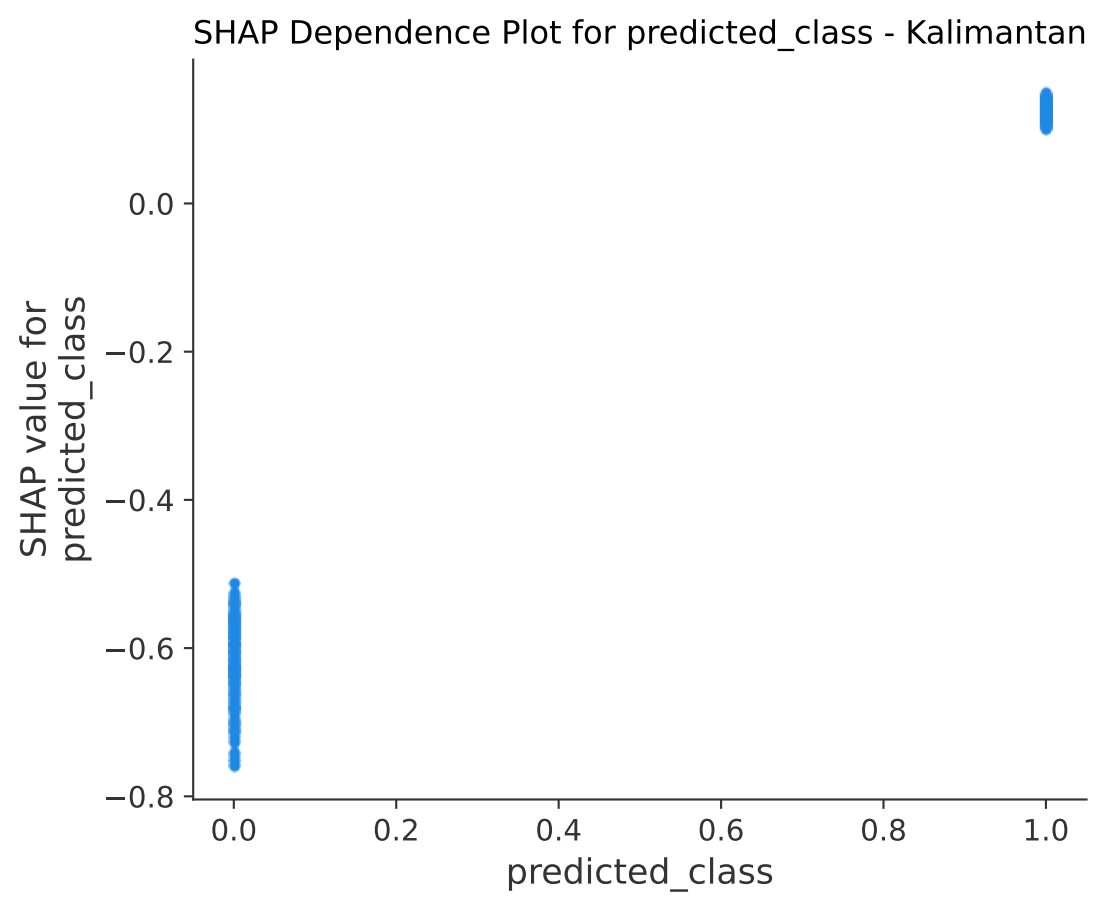

SHAP Dependence Plot for temperature_2m_max_lag3 - Maluku-Papua
SHAP value for temperature_2m_max_lag3
0.2
0.1
0.0
−0.1
−0.2
−0.3
22
24
26
28
30
temperature_2m_max_lag3

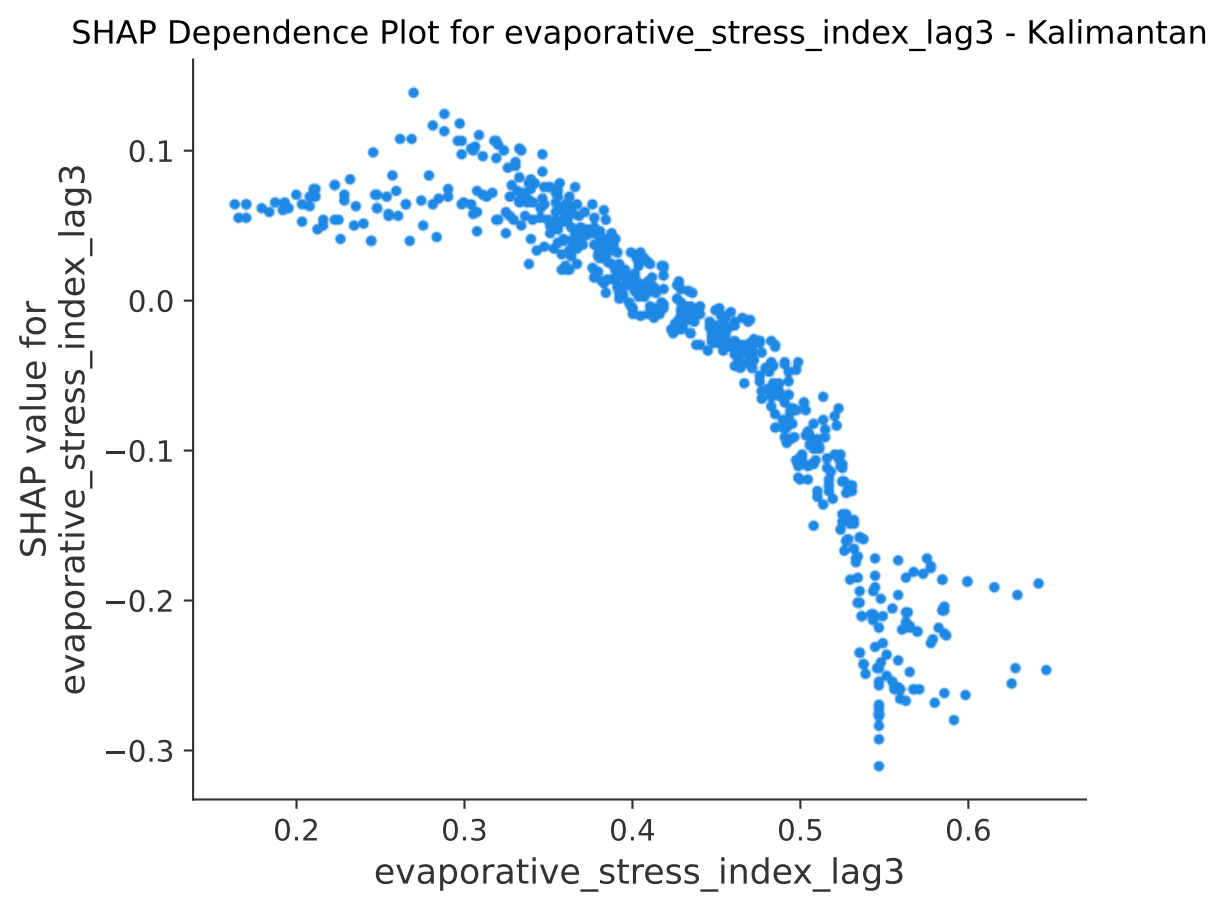

SHAP Dependence Plot for temperature_2m_max_lag1 - Maluku-Papua
SHAP value for temperature_2m_max_lag1
0.3
0.2
0.1
0.0
−0.1
−0.2
22
24
26
28
30
32
temperature_2m_max_lag1

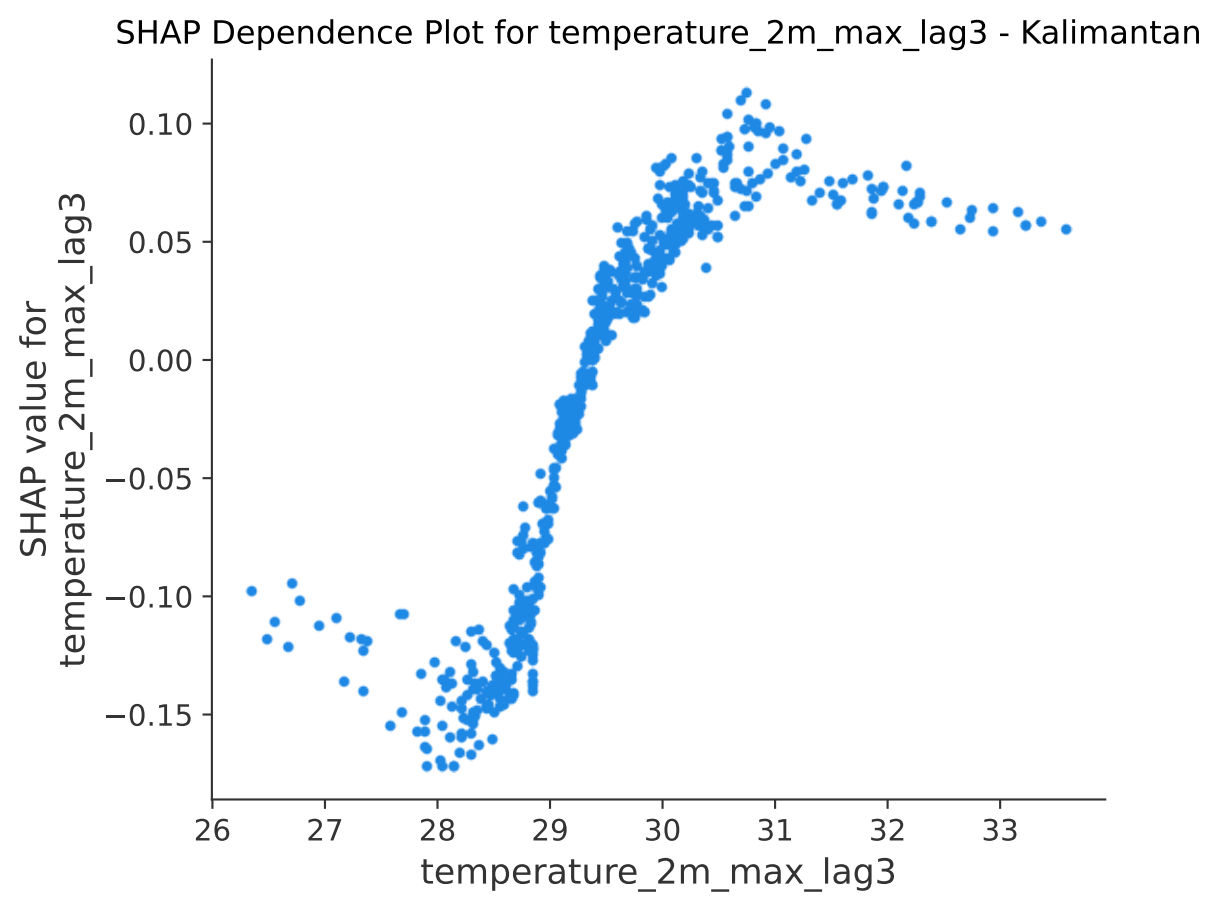

SHAP Dependence Plot for precipitation - Maluku-Papua
SHAP value for precipitation
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
0
100
200
300
400
500
600
precipitation

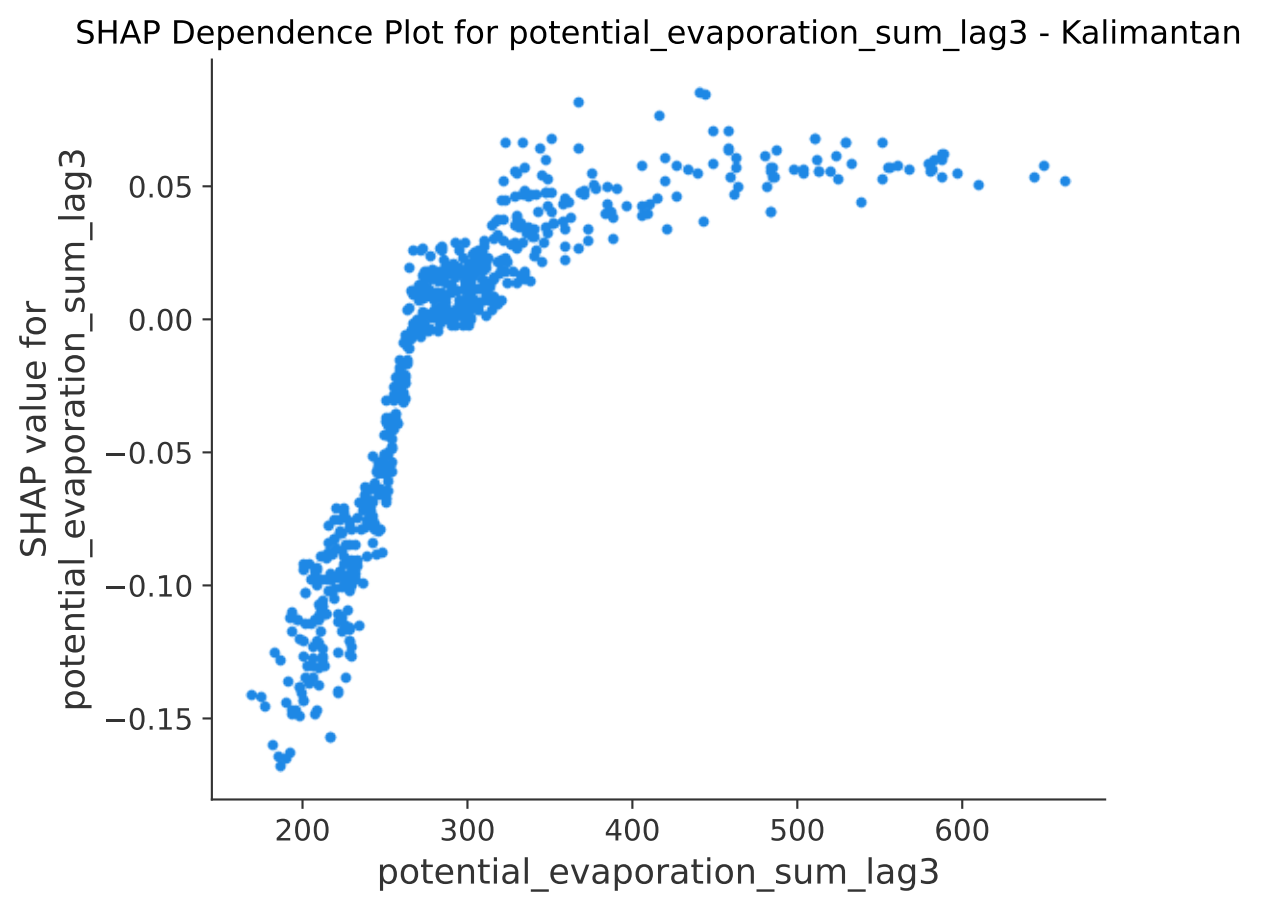

SHAP Beeswarm Plot - Kalimantan
predicted_prob
predicted_class
evaporative_stress_index_lag3
temperature_2m_max_lag3
potential_evaporation_sum_lag3
ANOM3_lag2
ANOM1+2
DMI
temperature_2m
DMI_East_lag1
DMI_East
aridity_index_lag3
temperature_2m_lag1
temperature_2m_min_ANOM_lag2
temperature_2m_min_ANOM_lag3
temperature_2m_min
temperature_2m_min_lag1
temperature_2m_max
ANOM4
evaporative_stress_index_lag2
−4
−3
−2
−1
0
SHAP value (impact on model output)
High
Feature value
Low


SHAP Dependence Plot for predicted_prob - Kalimantan
SHAP value for predicted_prob
0
−1
−2
−3
−4
0.2
0.4
0.6
0.8
predicted_prob


SHAP Dependence Plot for predicted_class - Kalimantan
SHAP value for predicted_class
predicted_class
0.0
−0.2
−0.4
−0.6
−0.8
0.0
0.2
0.4
0.6
0.8
1.0


SHAP Dependence Plot for evaporative_stress_index_lag3 - Kalimantan
SHAP value for evaporative_stress_index_lag3
0.1
0.0
−0.1
−0.2
−0.3
0.2
0.3
0.4
0.5
0.6
evaporative_stress_index_lag3


SHAP Dependence Plot for temperature_2m_max_lag3 - Kalimantan
SHAP value for temperature_2m_max_lag3
0.10
0.05
0.00
−0.05
−0.10
−0.15
26
27
28
29
30
31
32
33
temperature_2m_max_lag3


SHAP Dependence Plot for potential_evaporation_sum_lag3 - Kalimantan
SHAP value for potential_evaporation_sum_lag3
0.05
0.00
−0.05
−0.10
−0.15
200
300
400
500
600
potential_evaporation_sum_lag3