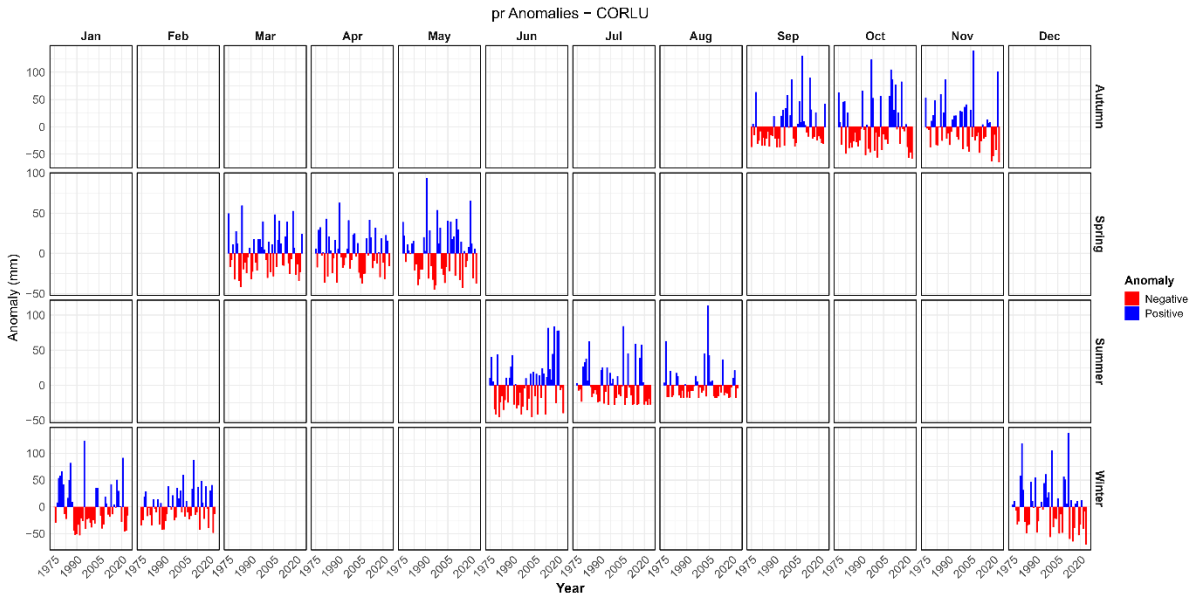
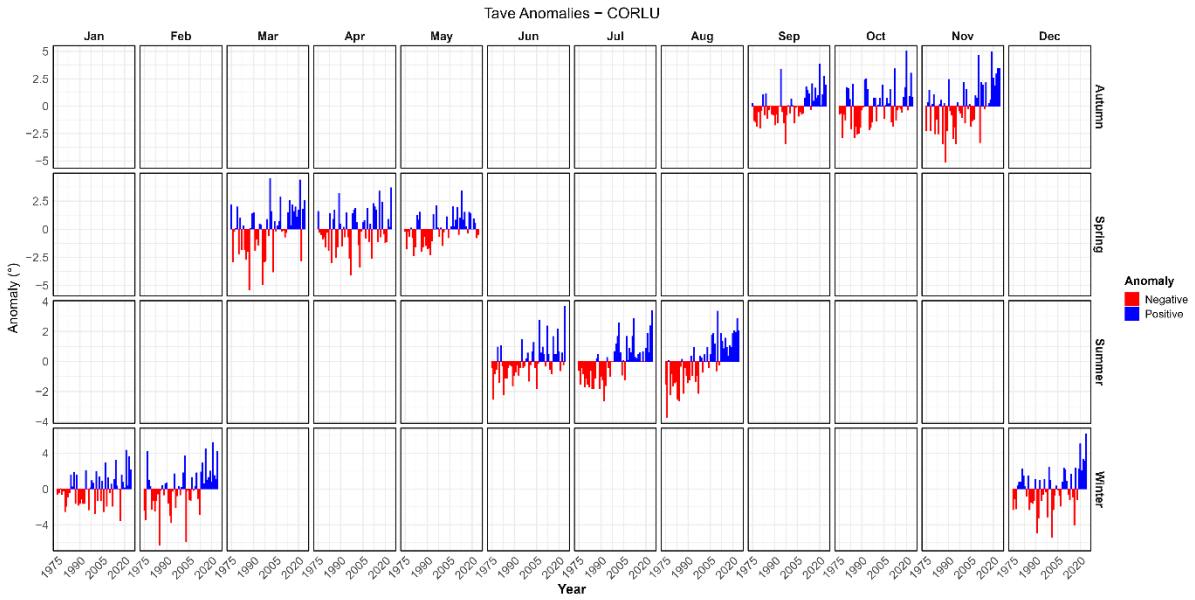
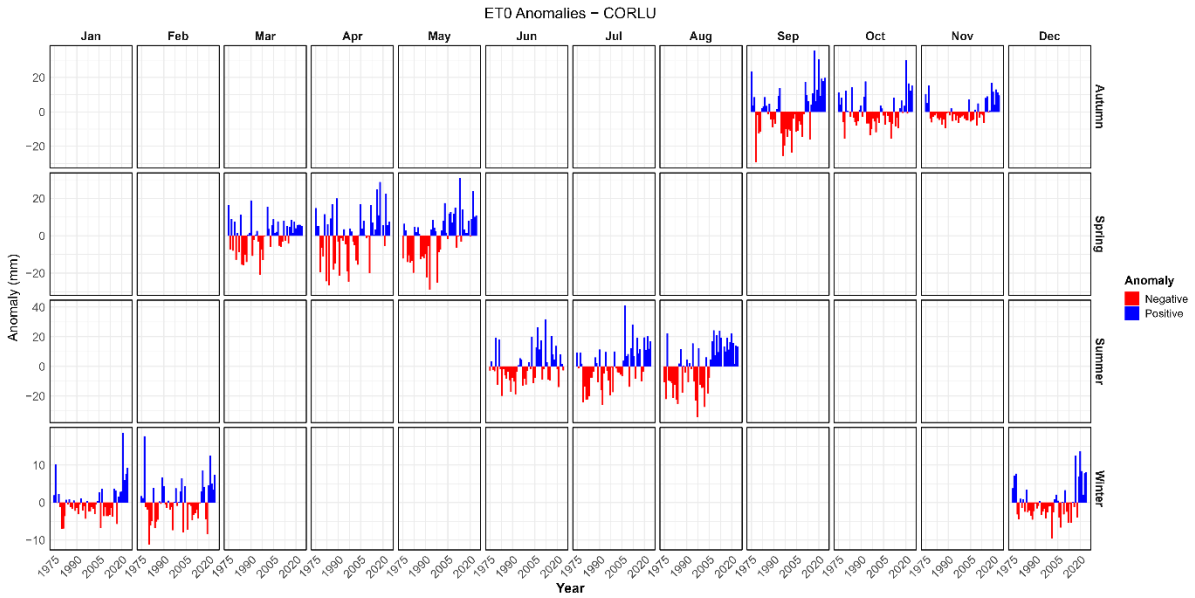

pr Anomalies – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

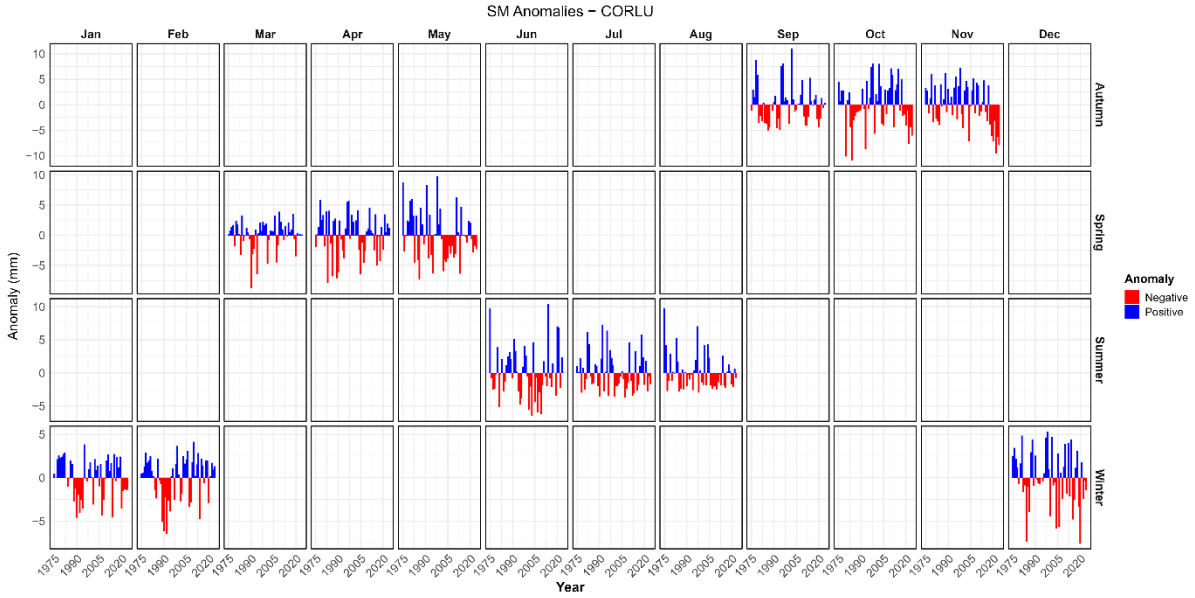
(a)


Tave Anomalies – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (°)
Year
Anomaly
Negative
Positive

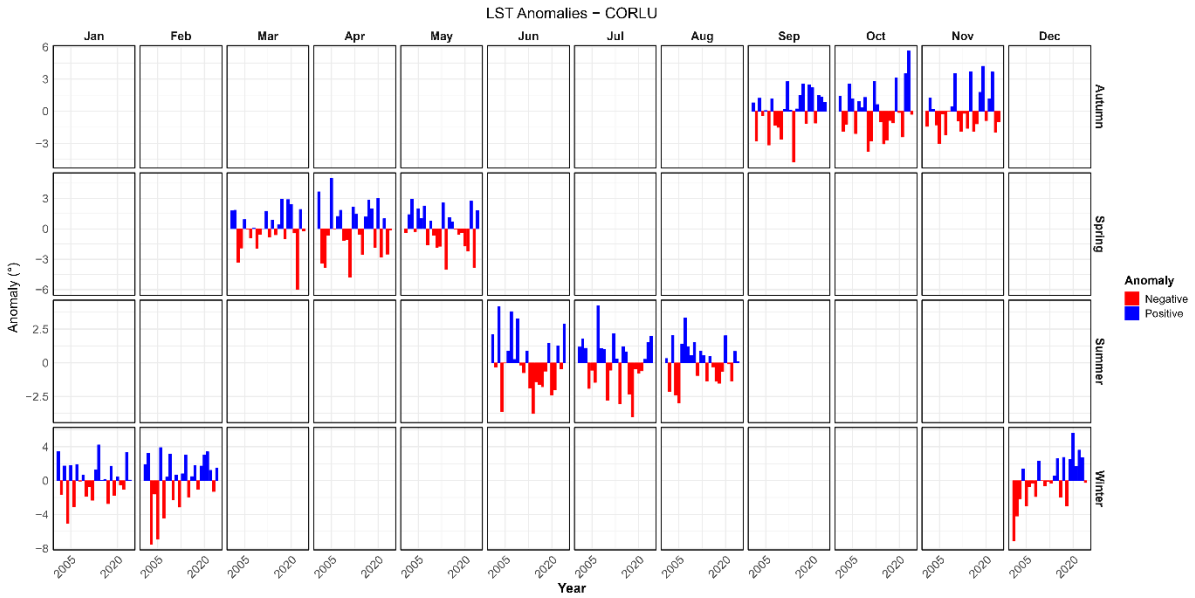
(b)


ET0 Anomalies – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

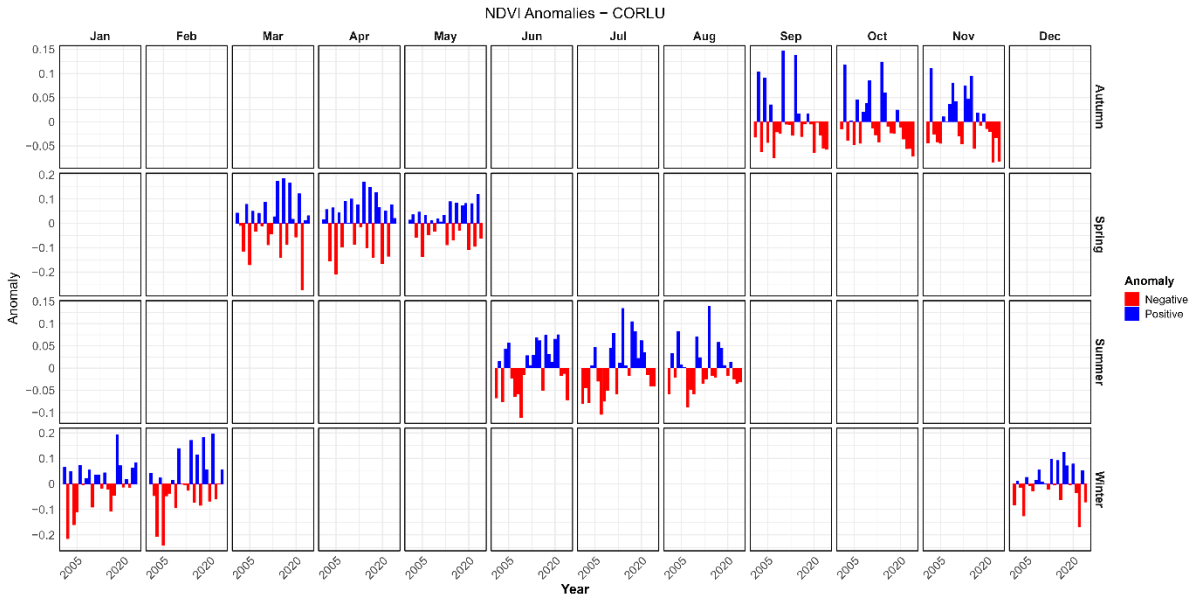
(c)


SM Anomalies – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

(d)

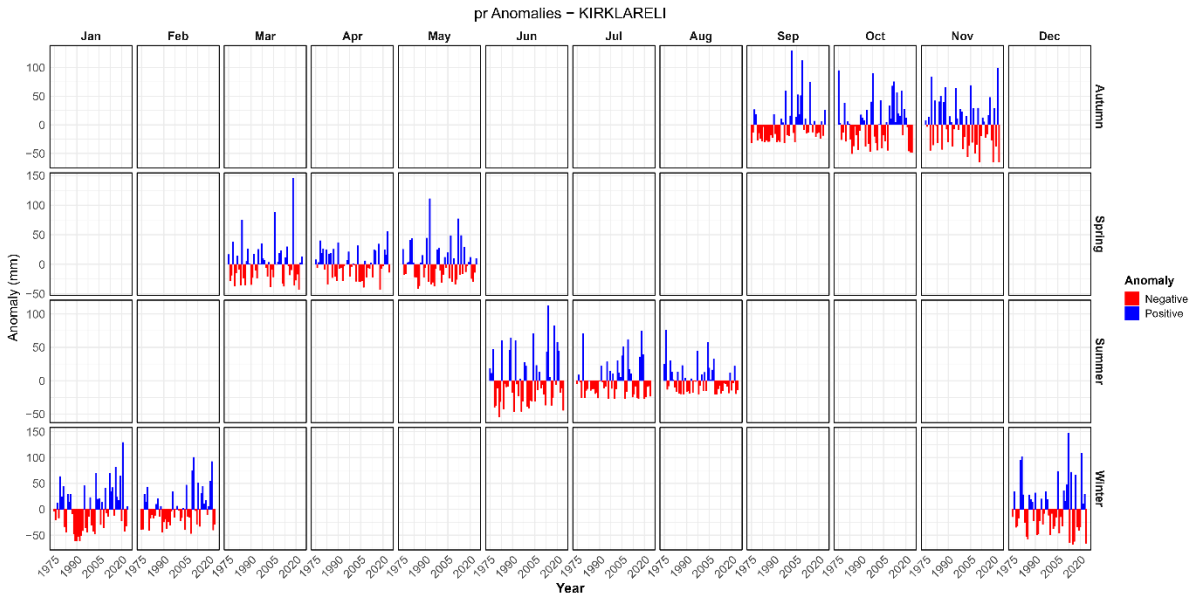


(e)

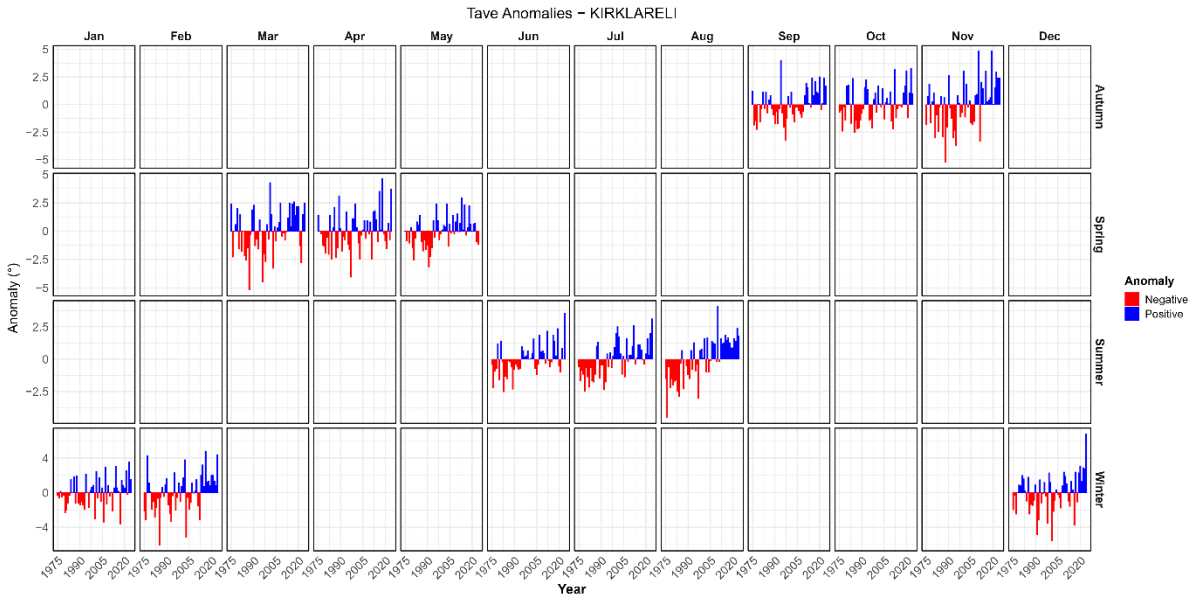


(f)

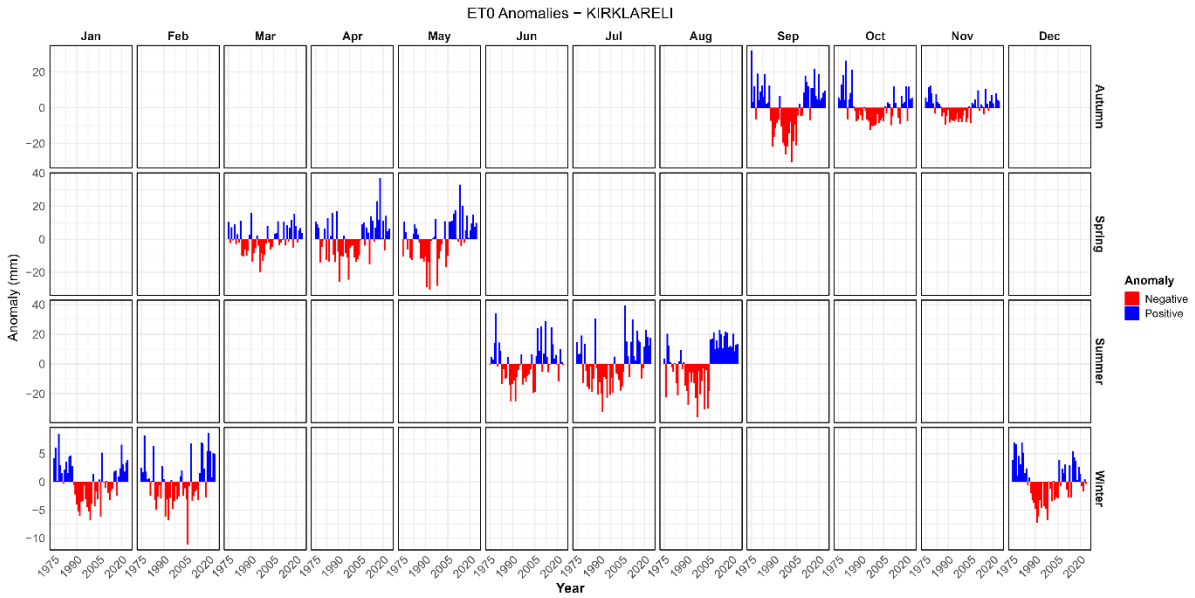
Figure S1 Monthly and seasonal anomalies of hydro-vegetation variables for Çorlu: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr Anomalies – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

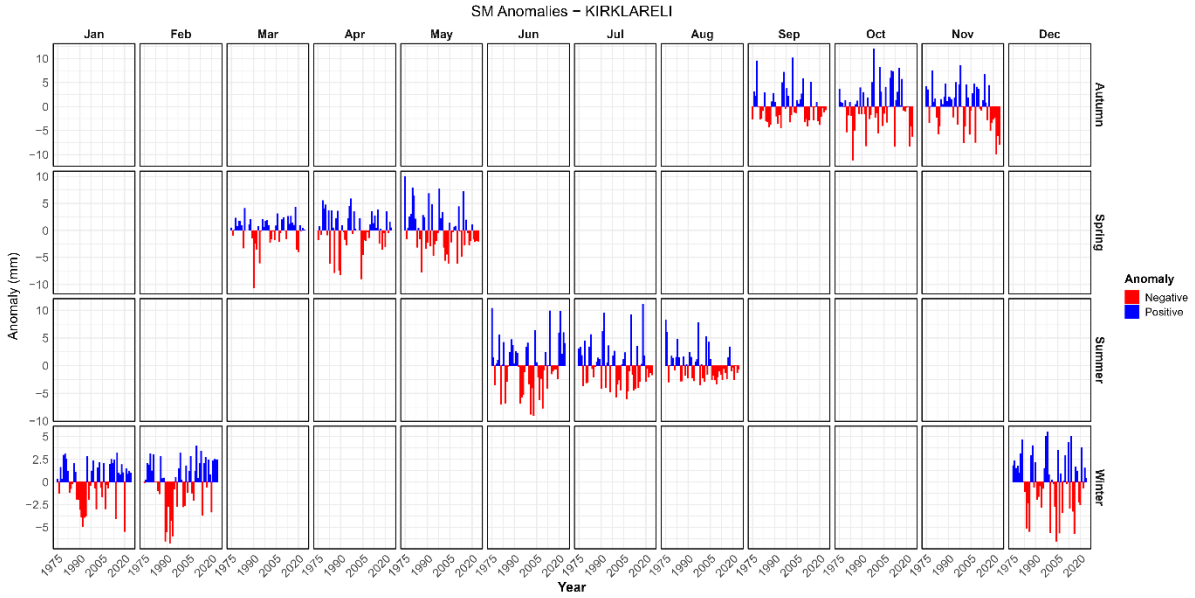
(a)


Tave Anomalies – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (°)
Year
Anomaly
Negative
Positive

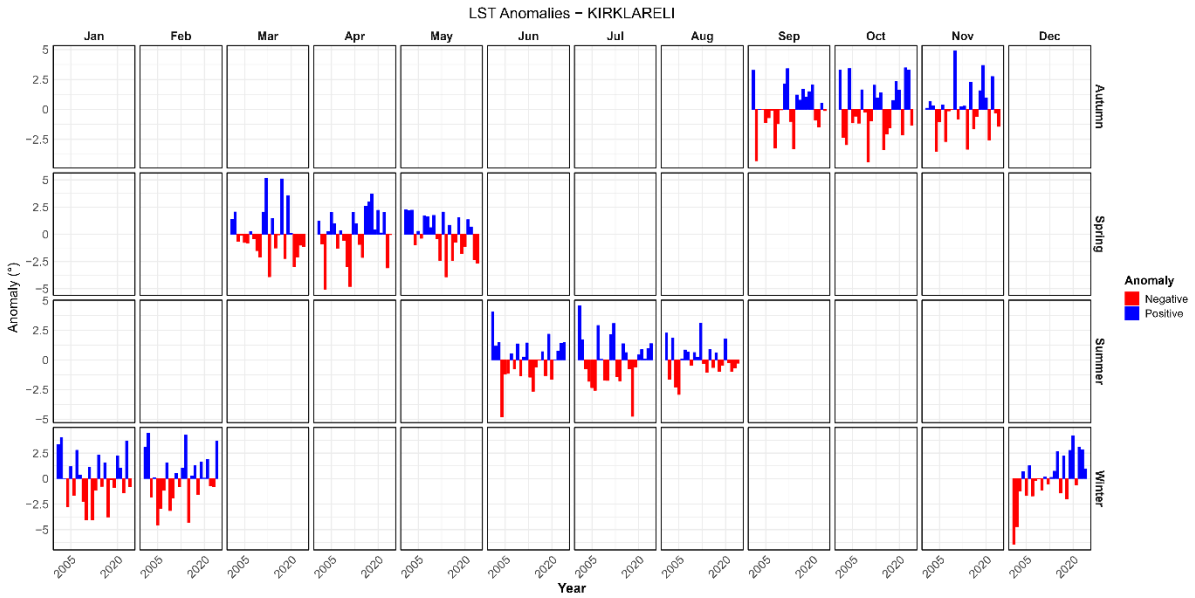
(b)


ET0 Anomalies – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

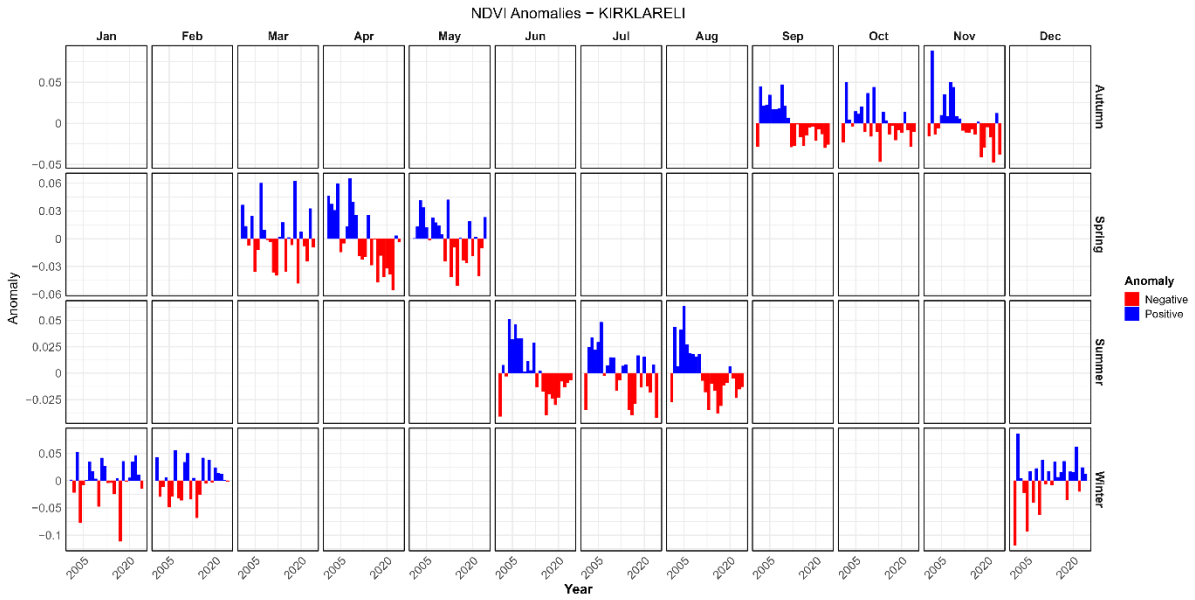
(c)


SM Anomalies – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

(d)

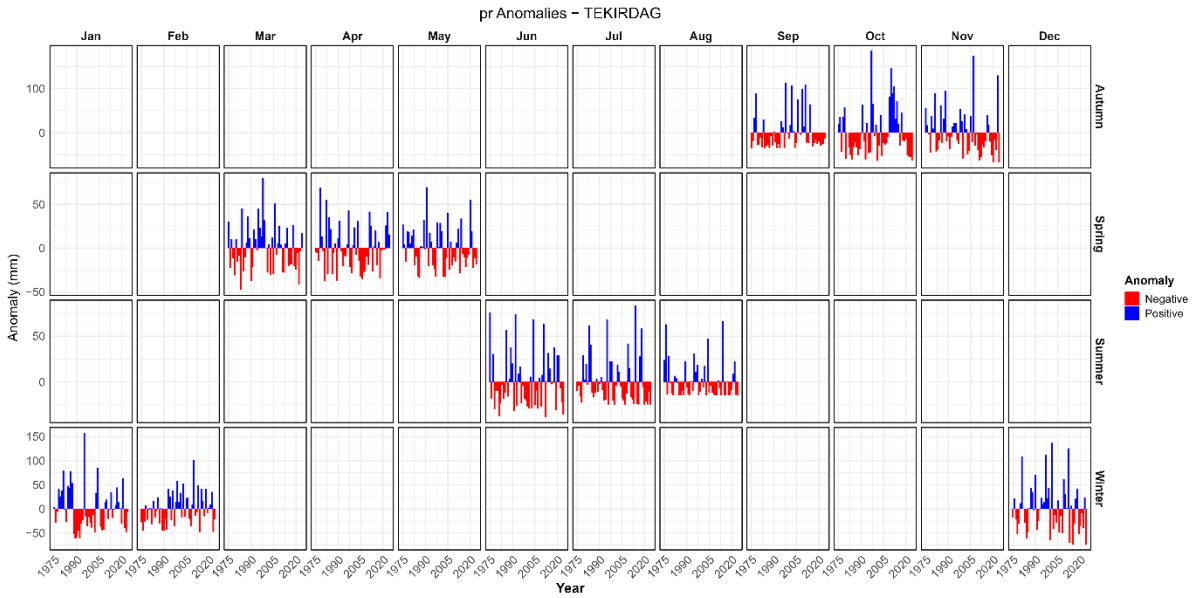


(e)

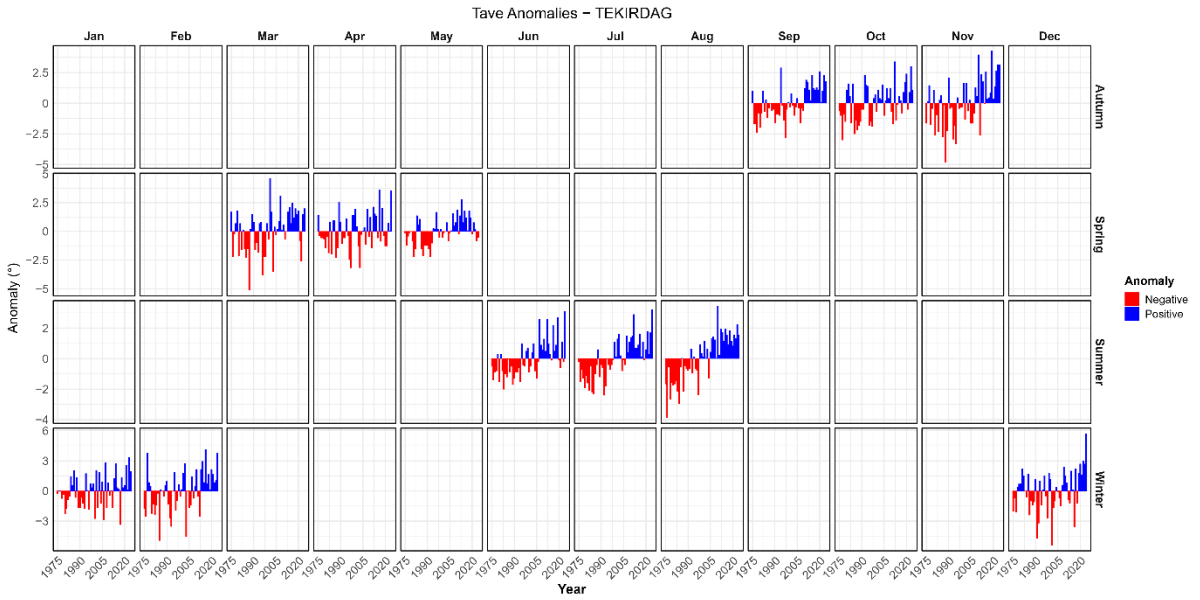


(f)

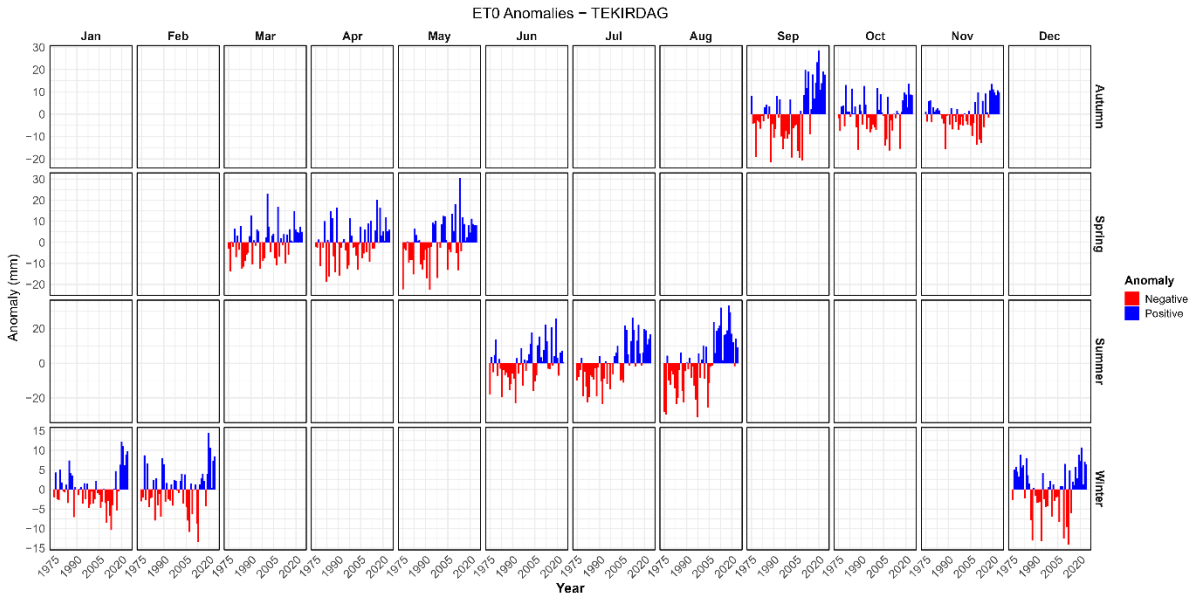
Figure S2. Monthly and seasonal anomalies of hydro-vegetation variables for Kırklareli: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr Anomalies – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

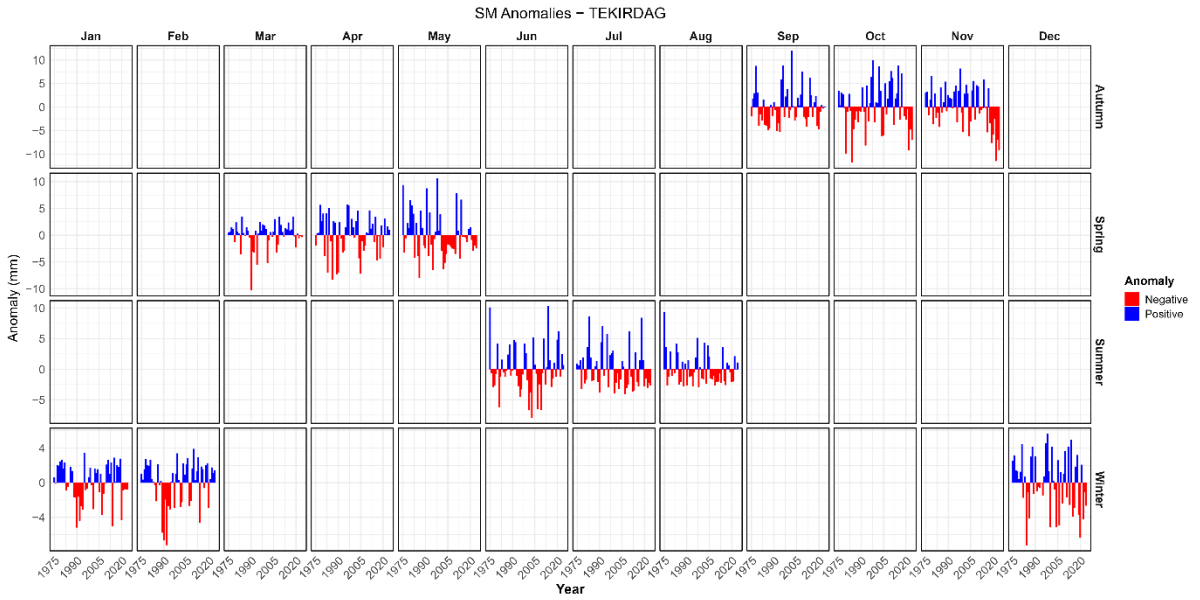
(a)


Tave Anomalies – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (°)
Year
Anomaly
Negative
Positive

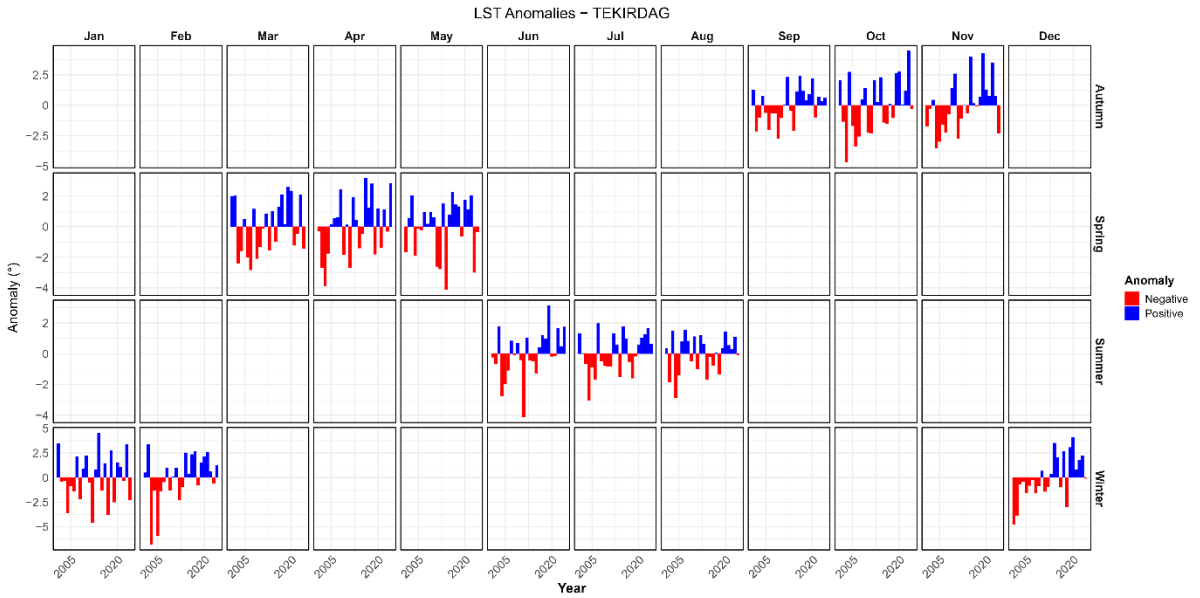
(b)


ET0 Anomalies – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

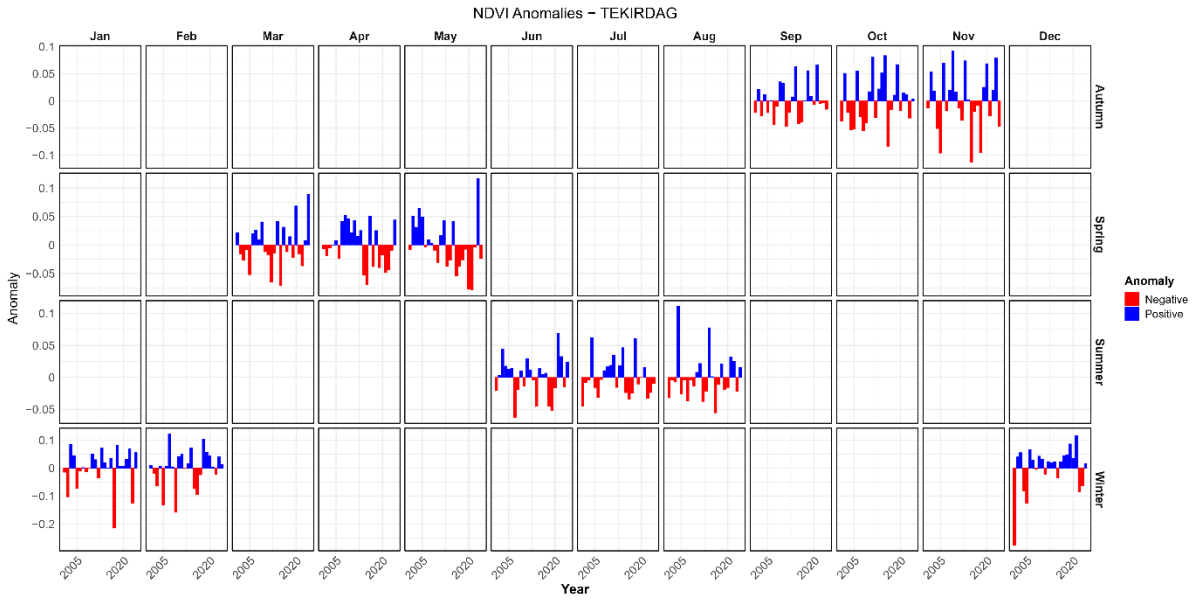
(c)


SM Anomalies – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

(d)

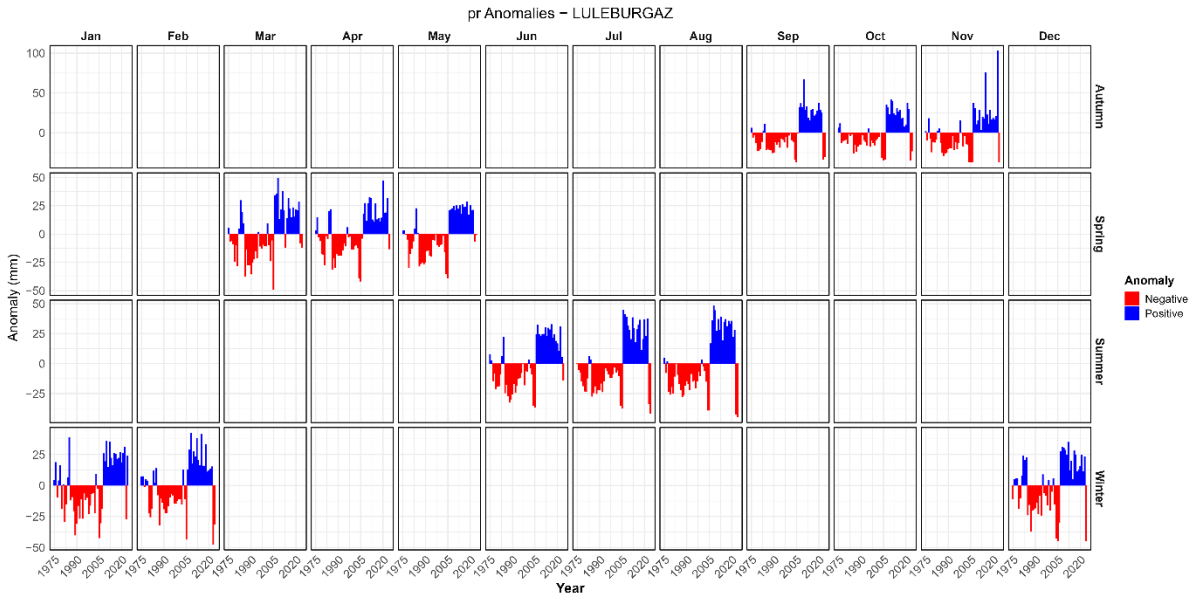


(e)

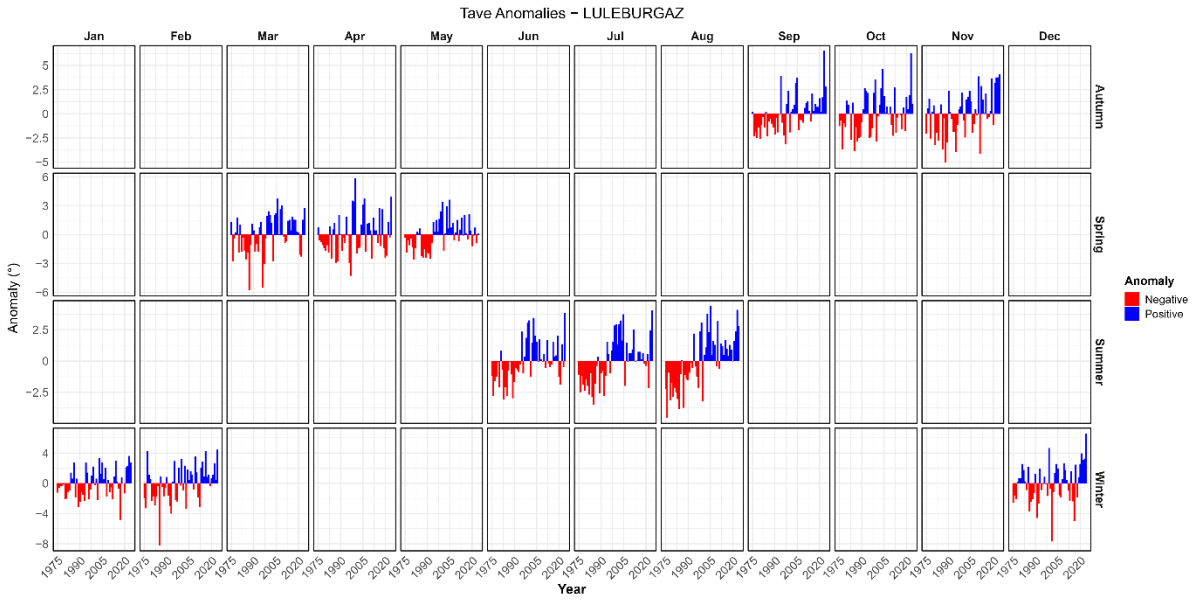


(f)

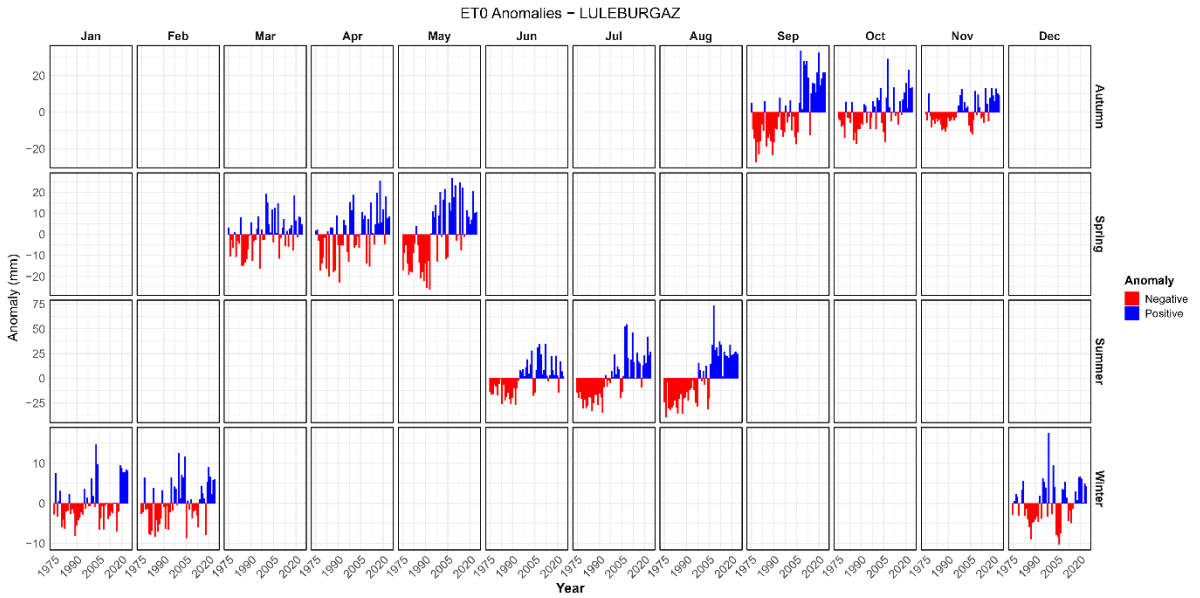
Figure S3. Monthly and seasonal anomalies of hydro-vegetation variables for Tekirdağ: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr Anomalies – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

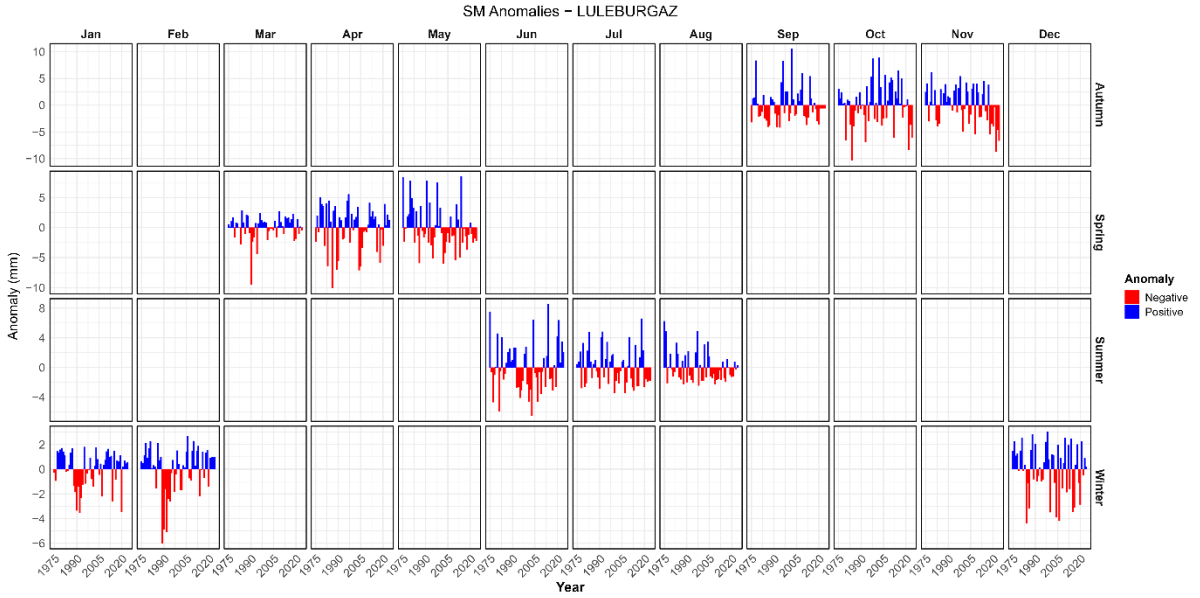
(a)


Tave Anomalies – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (°)
Year
Anomaly
Negative
Positive

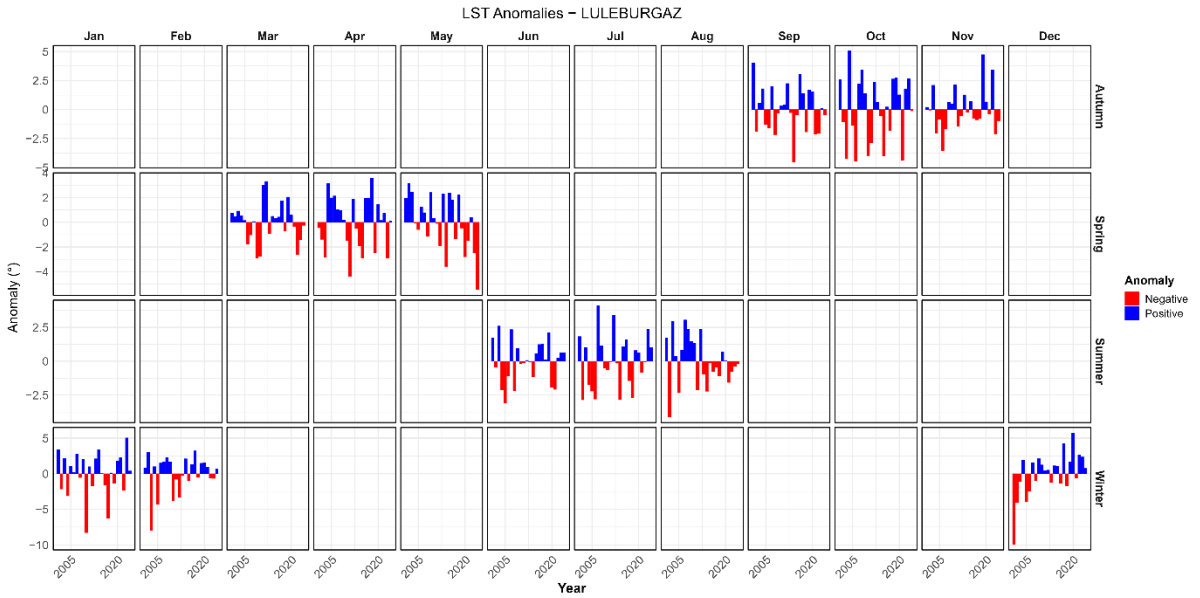
(b)


ET0 Anomalies – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

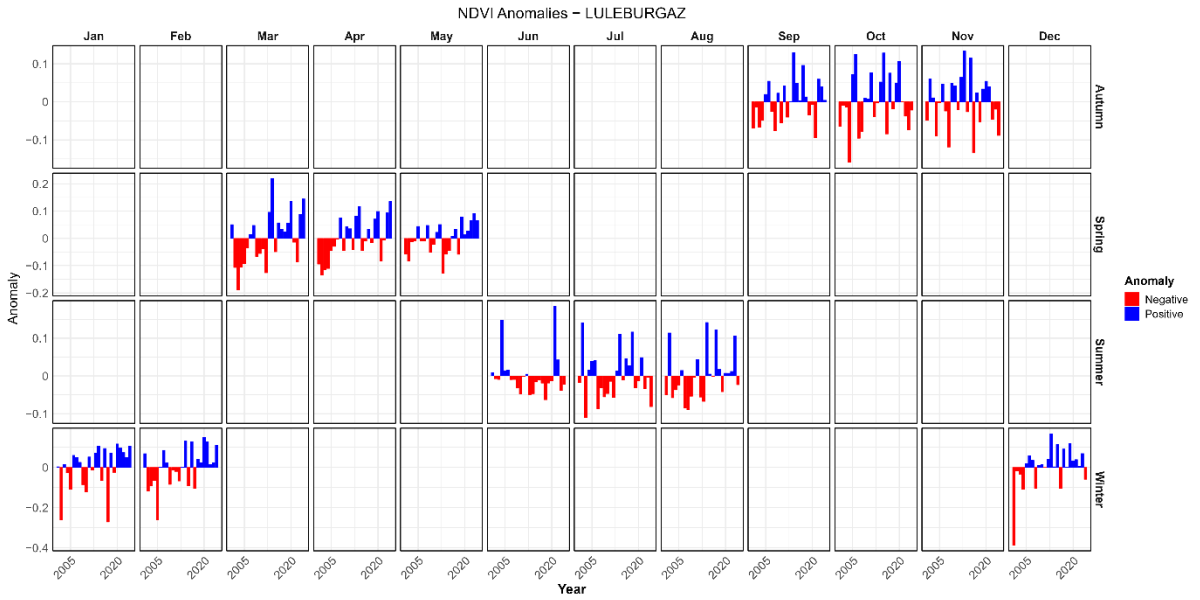
(c)


SM Anomalies – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Autumn
Spring
Summer
Winter
Anomaly (mm)
Year
Anomaly
Negative
Positive

(d)

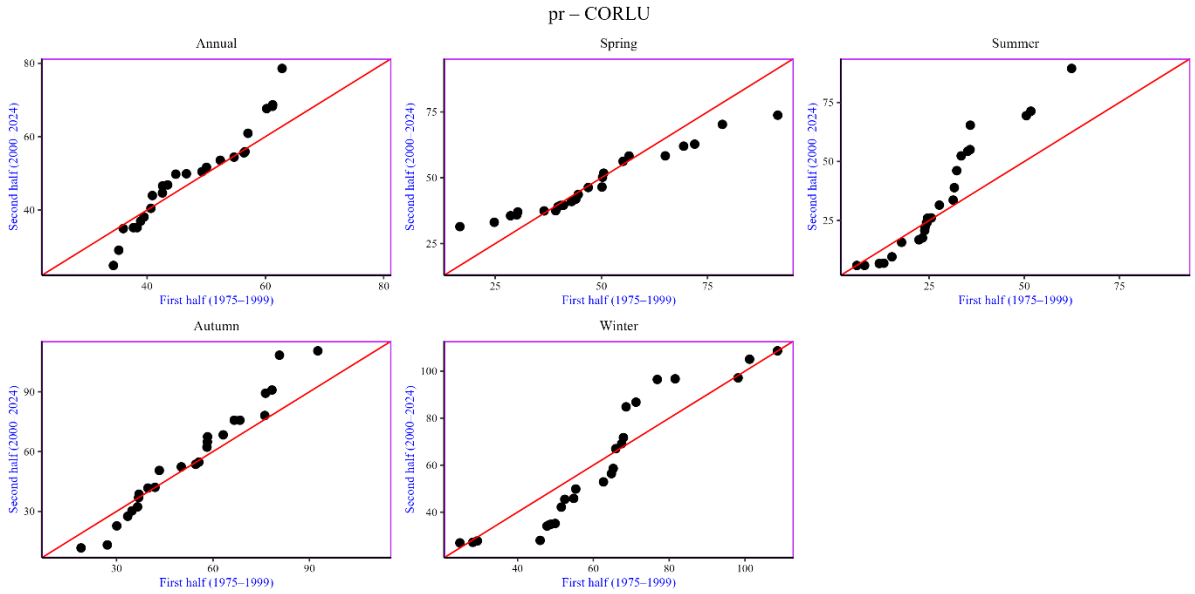


(e)

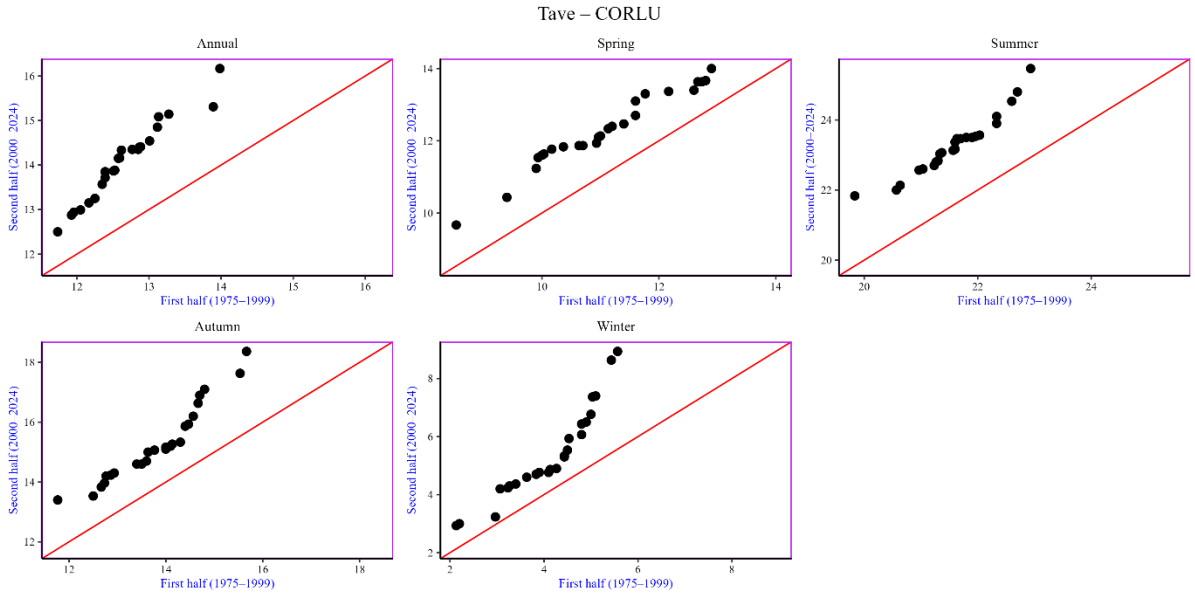


(f)

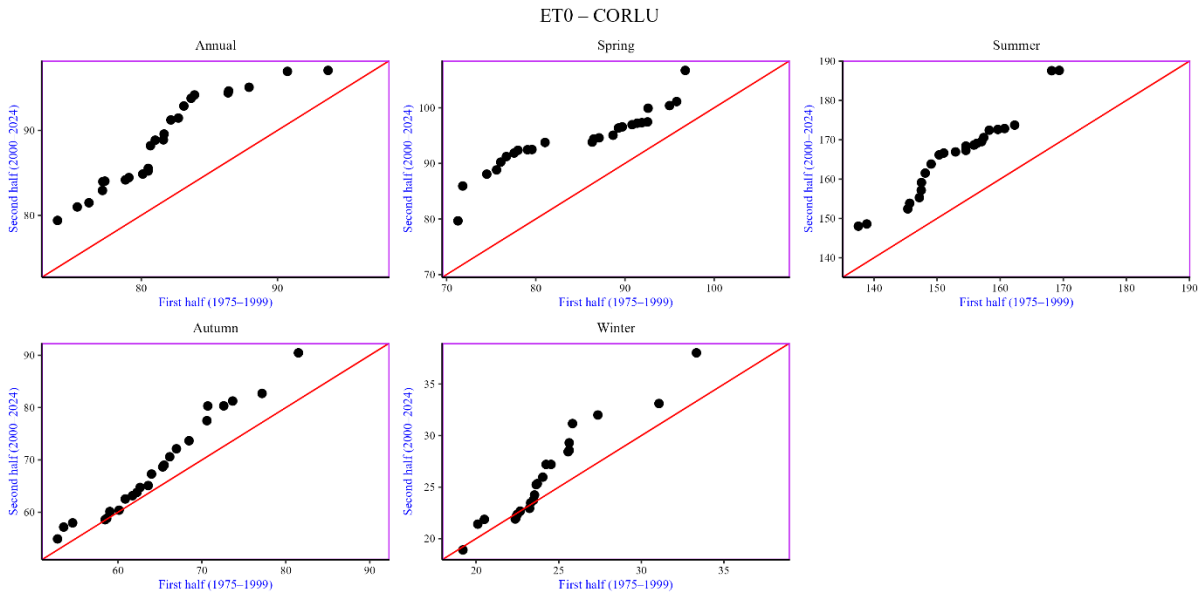
Figure S4. Monthly and seasonal anomalies of hydro-vegetation variables for Tekirdağ: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – CORLU
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

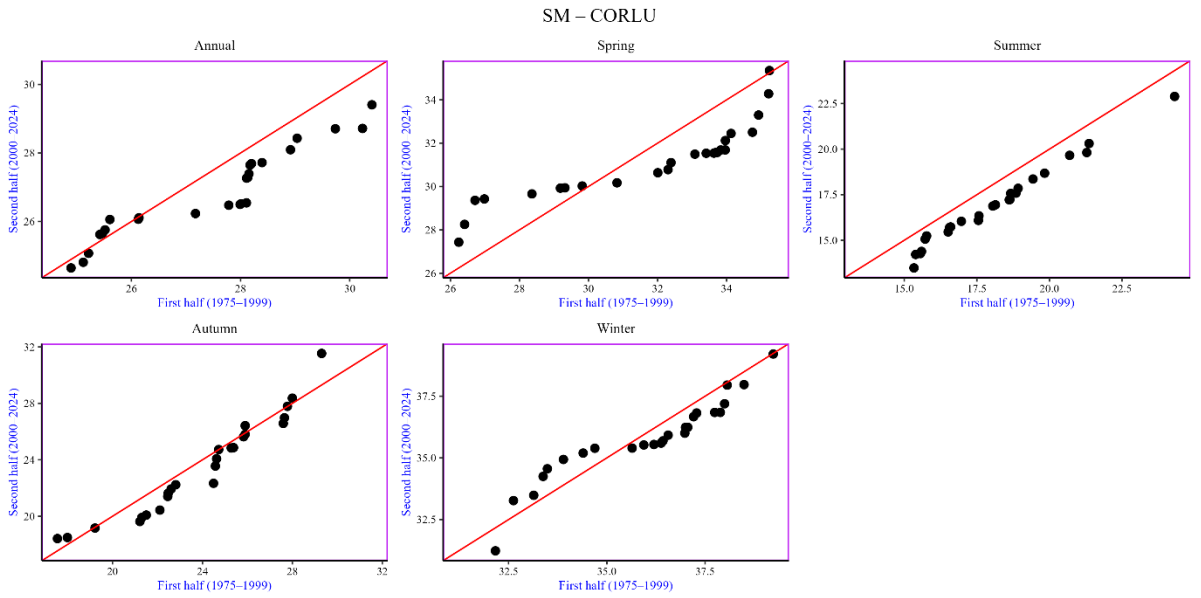
(a)


Tave – CORLU
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

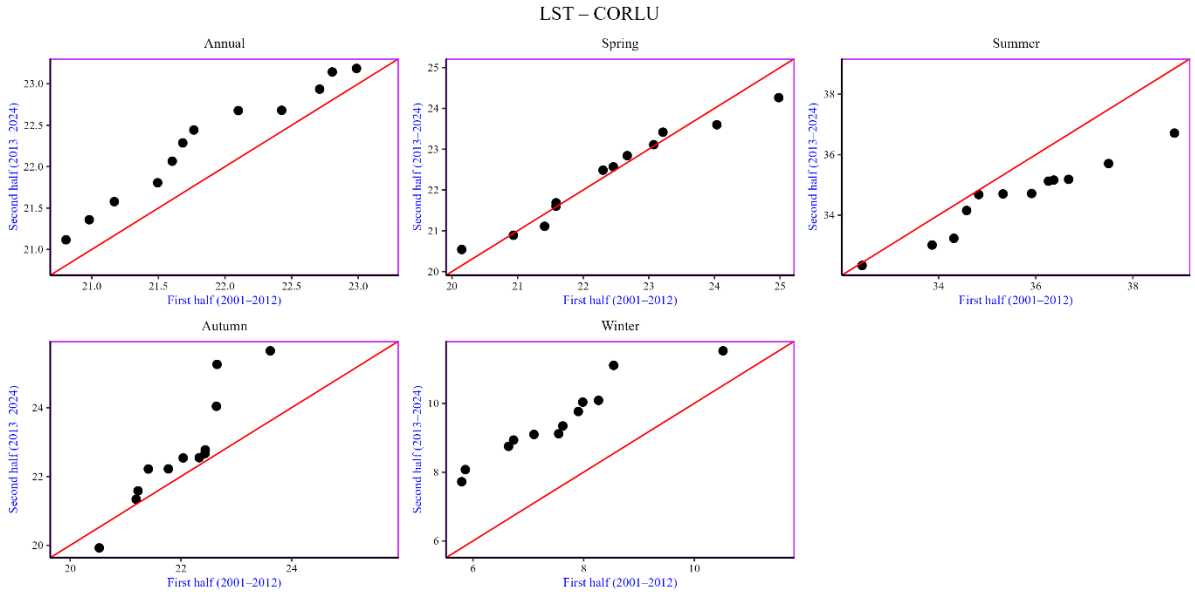
(b)


ET0 – CORLU
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

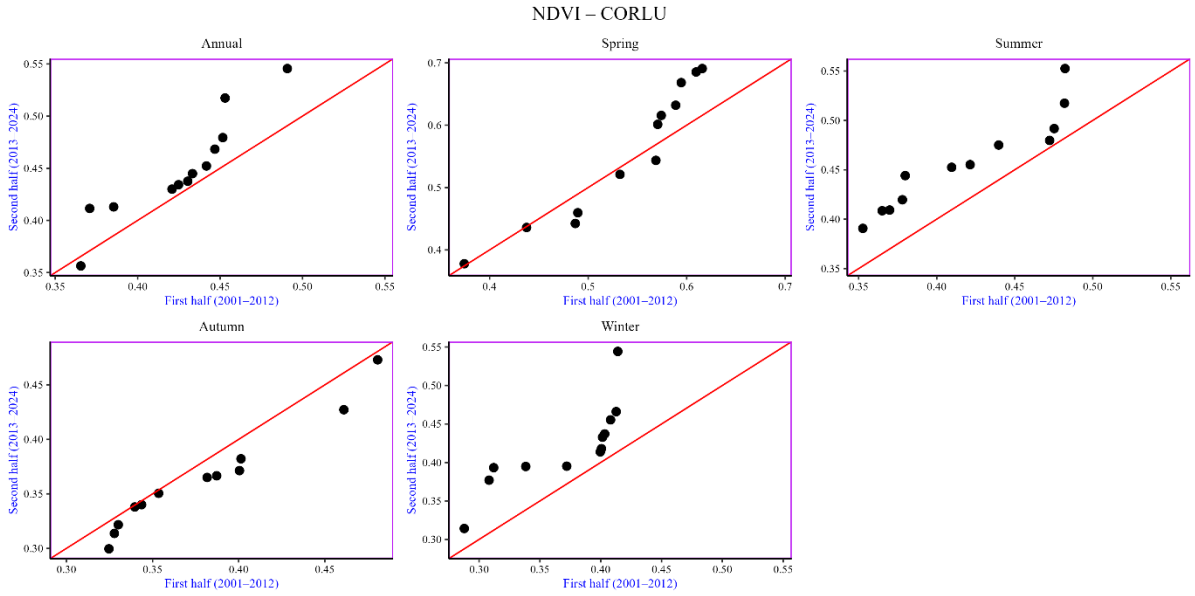
(c)


SM – CORLU
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

(d)

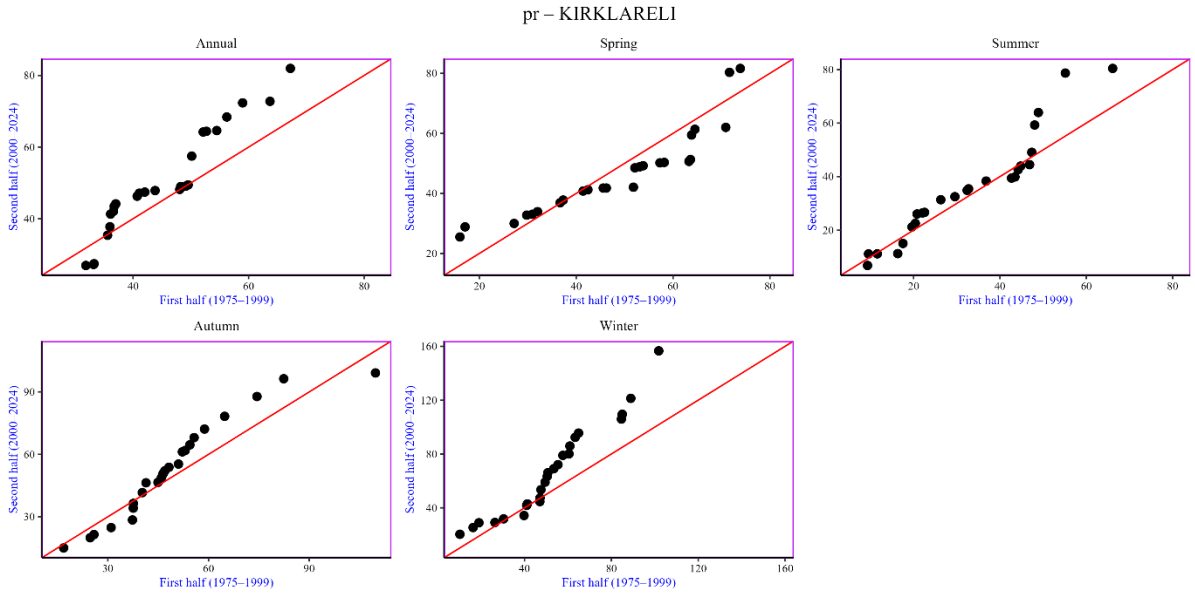


(e)

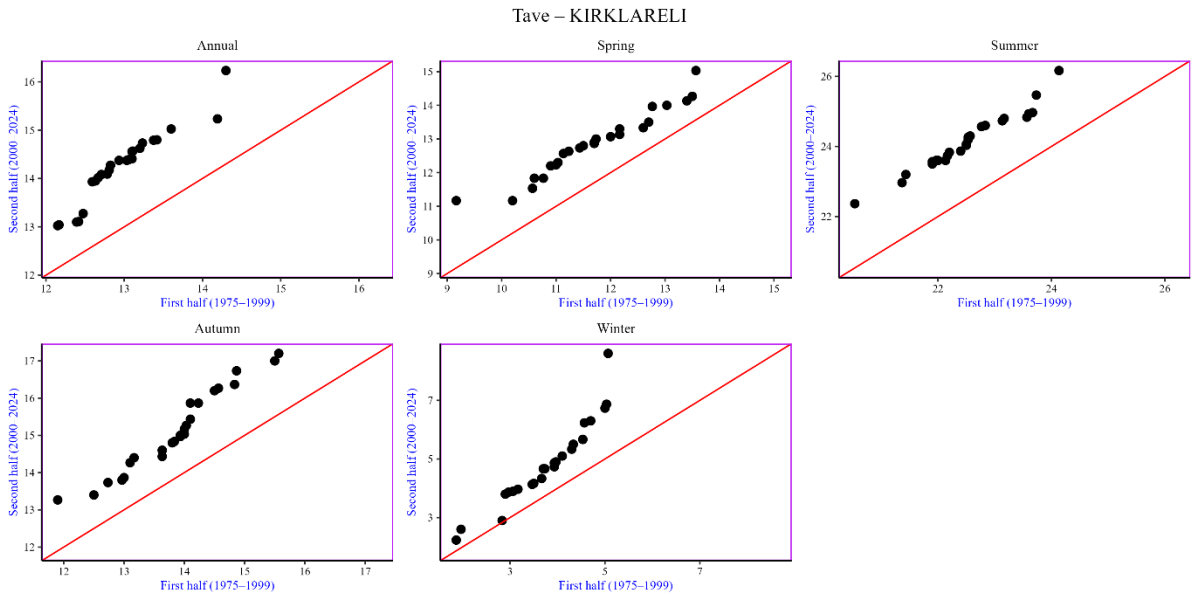


(f)

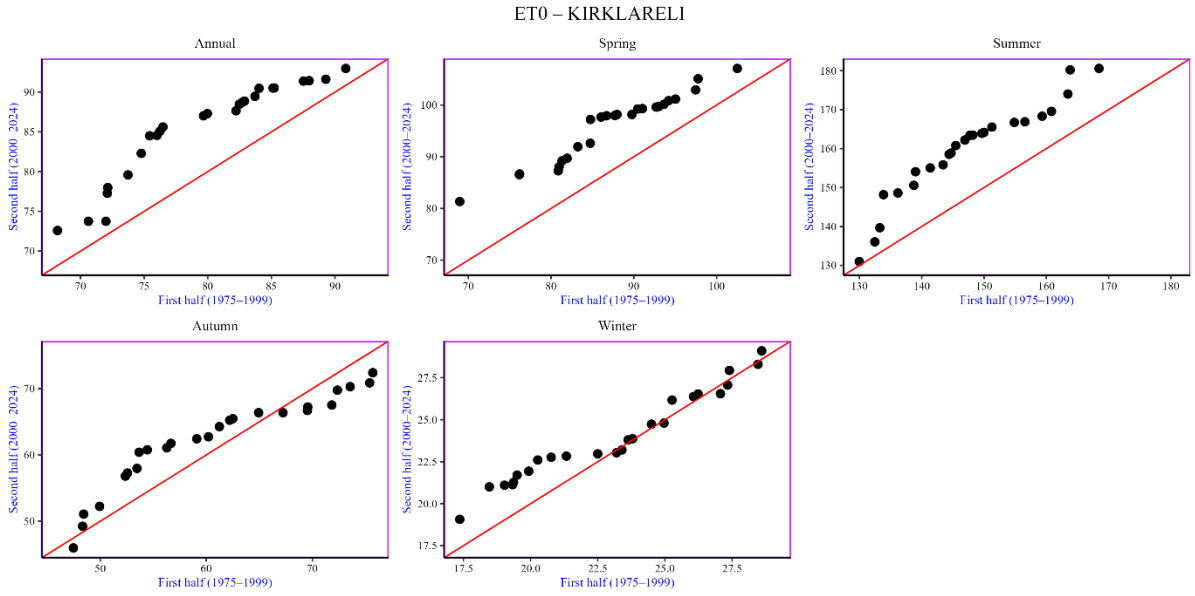
Figure S5. ITA trend results of hydro-vegetation variables at seasonal and annual scales for Çorlu: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – KIRKLARELI
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

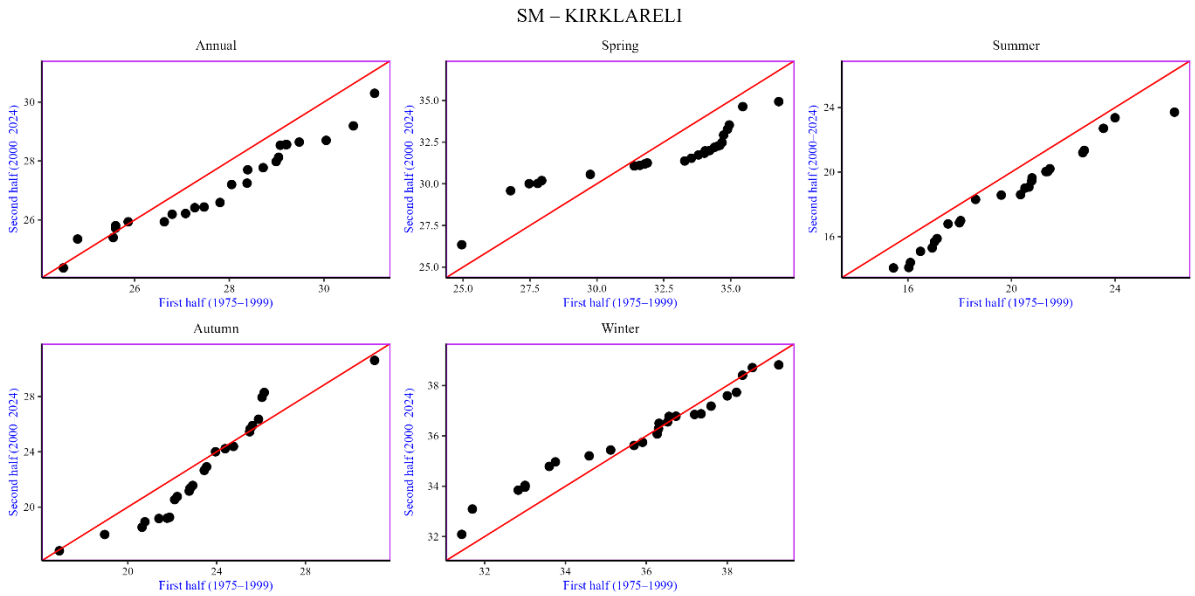
(a)


Tave – KIRKLARELI
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

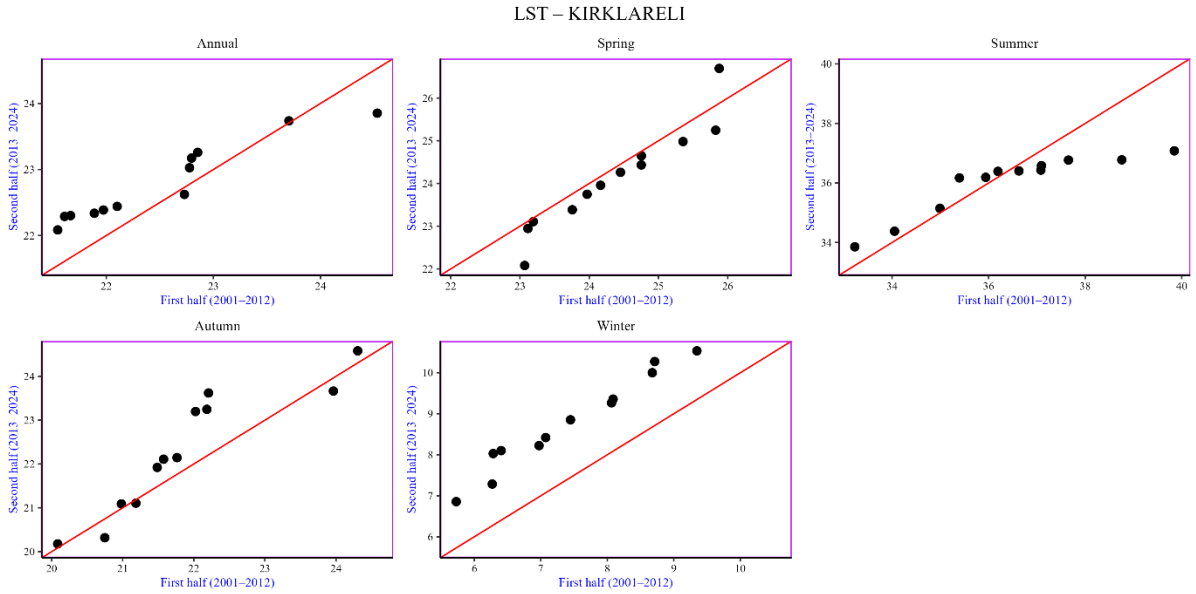
(b)


ET0 – KIRKLARELI
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

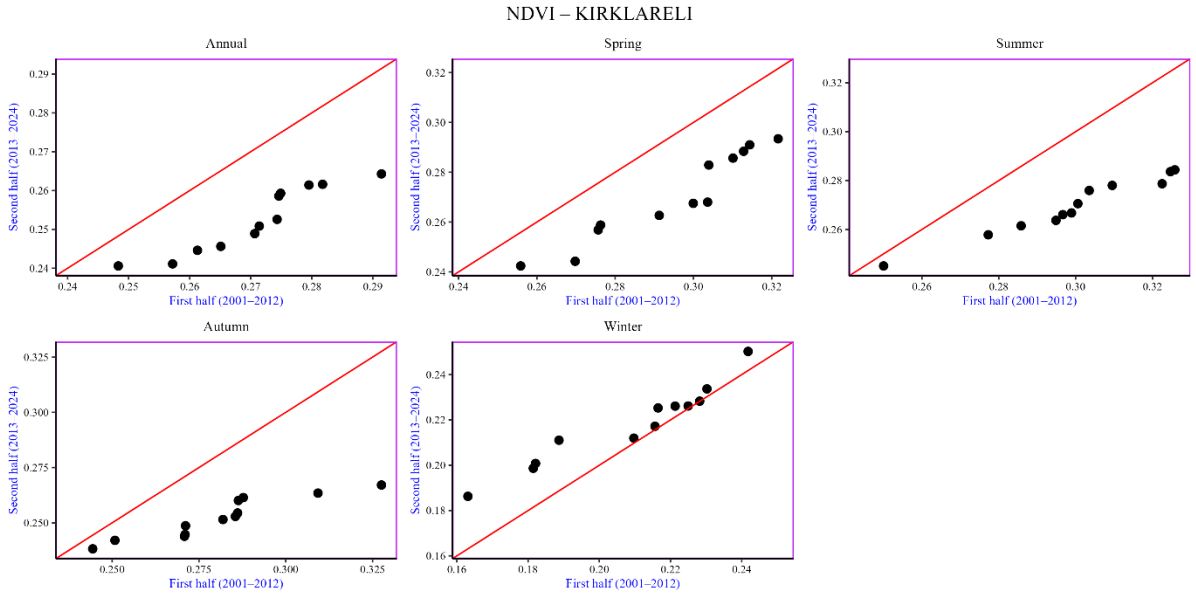
(c)


SM – KIRKLARELI
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

(d)

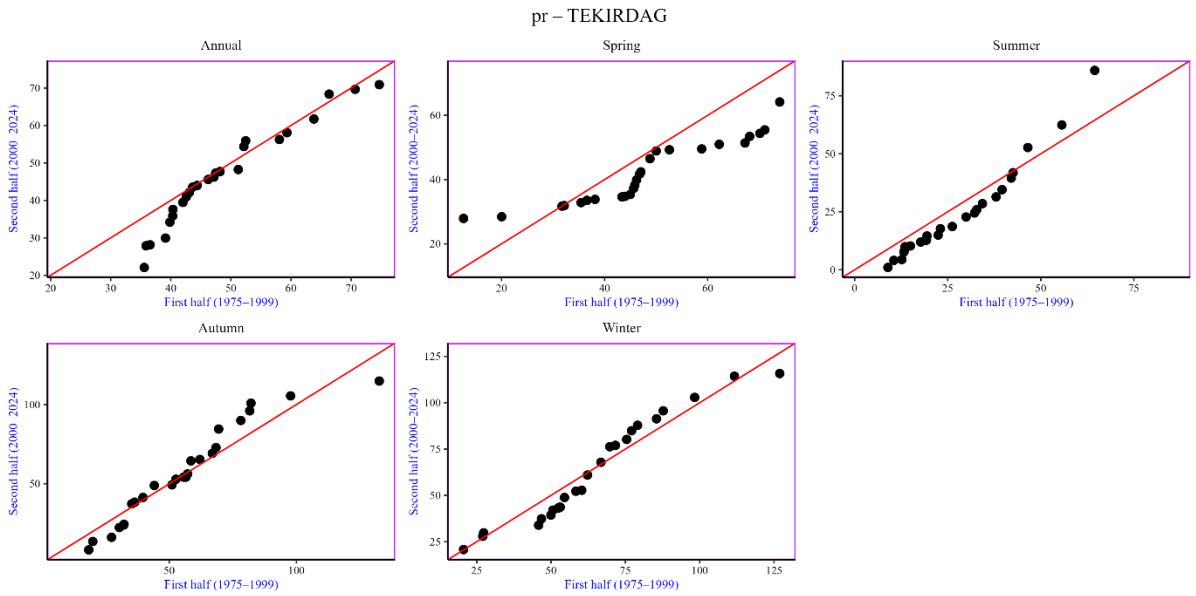


(e)

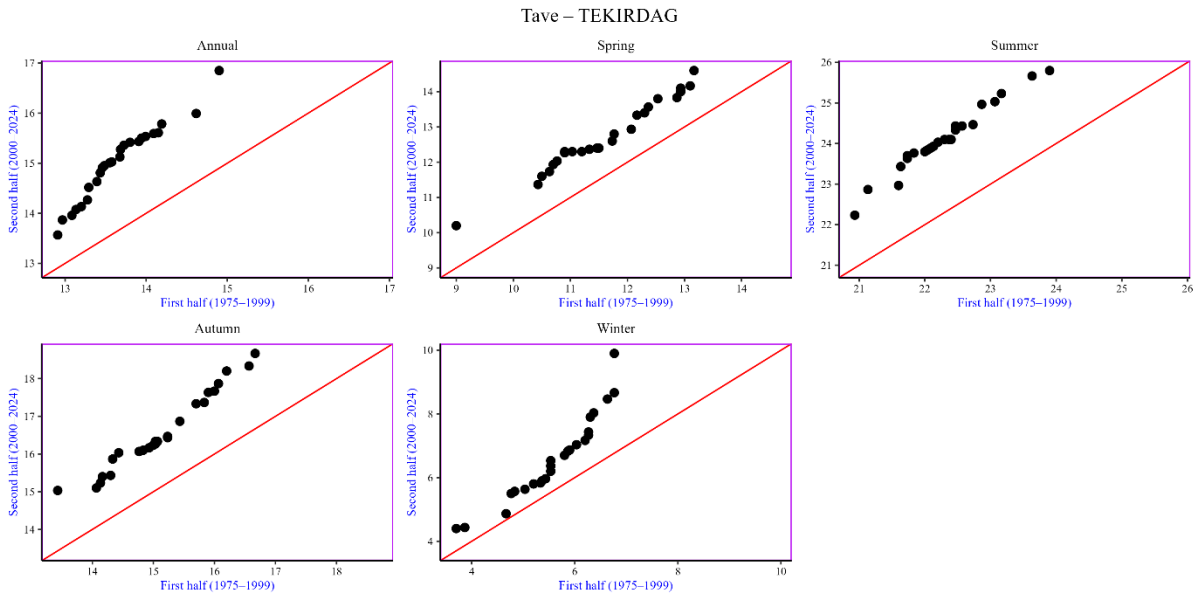


(f)

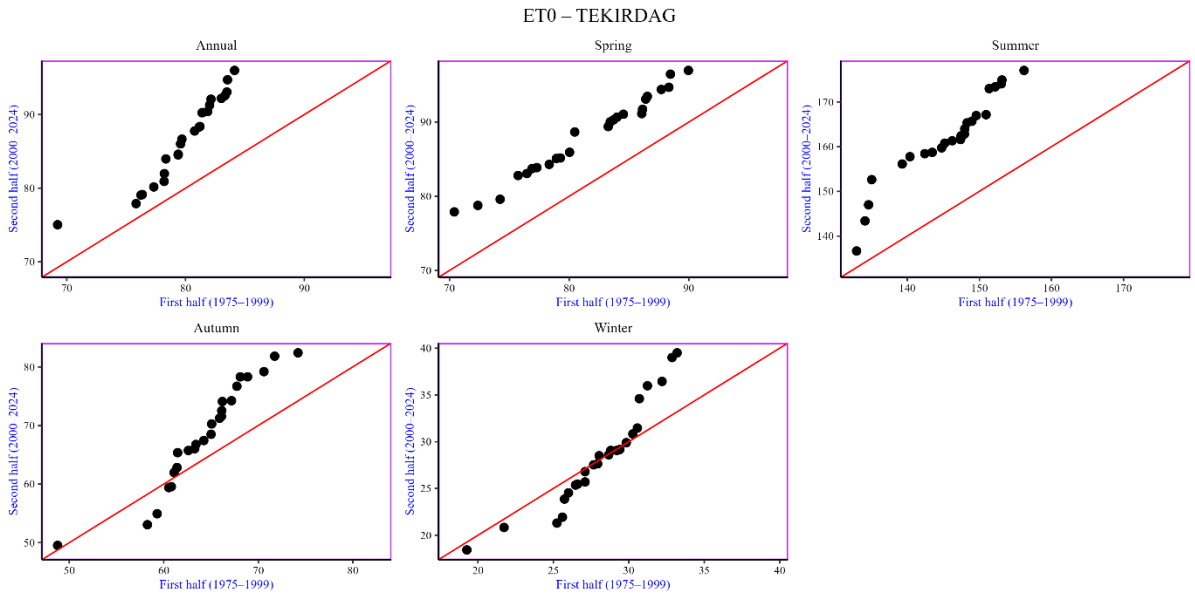
Figure S6. ITA trend results of hydro-vegetation variables at seasonal and annual scales for Kırklareli: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – TEKIRDAG
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

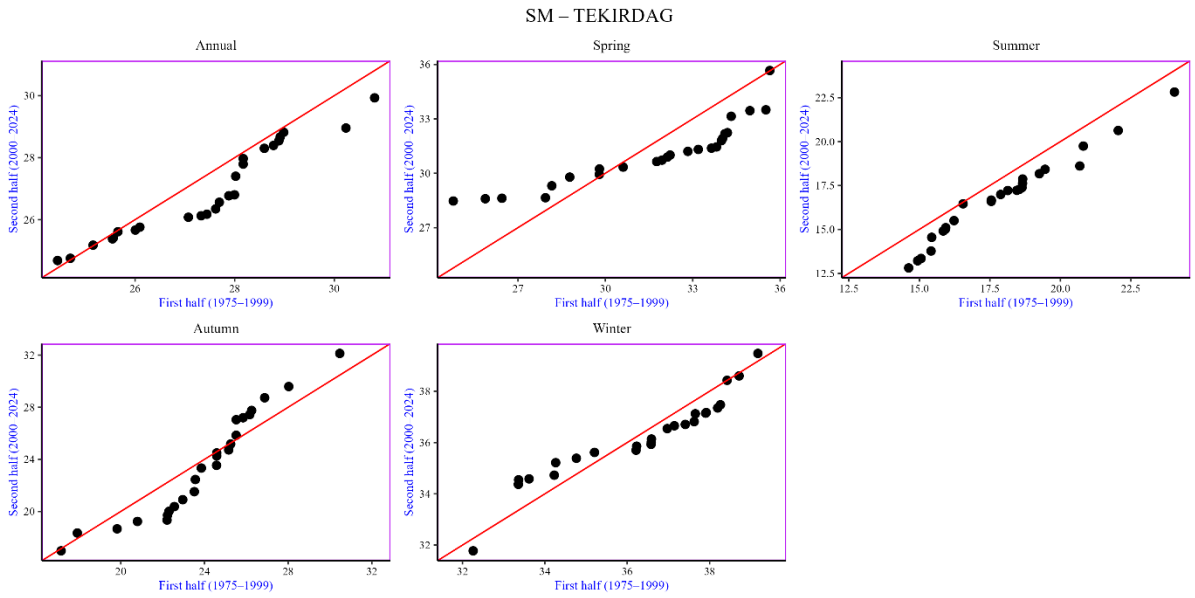
(a)


Tave – TEKIRDAG
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

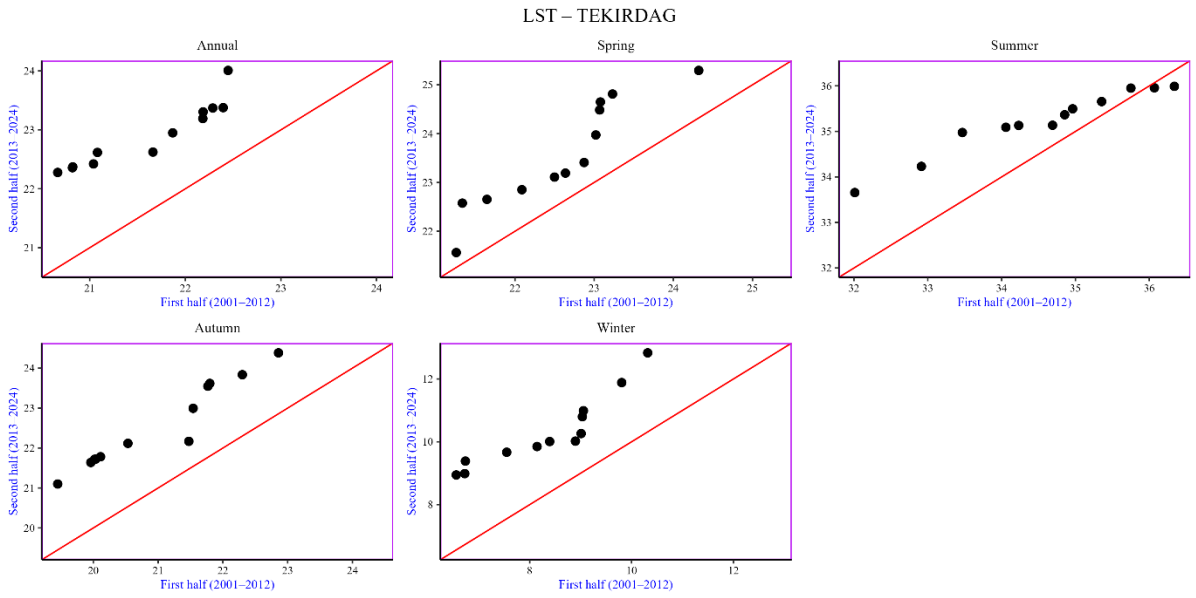
(b)


ET0 – TEKIRDAG
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

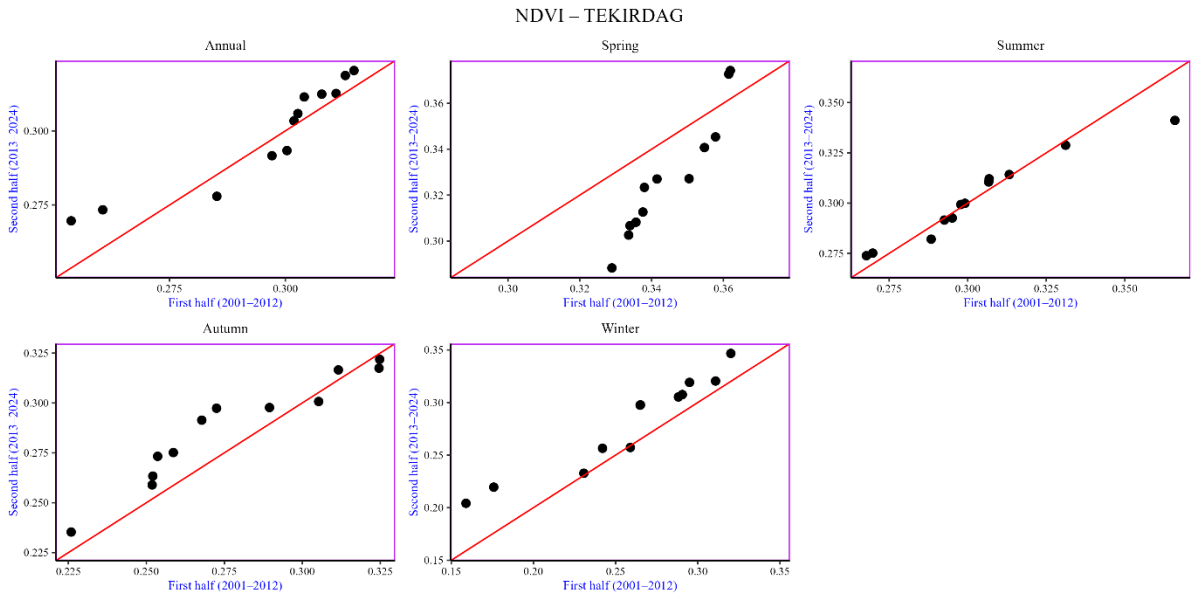
(c)


SM – TEKIRDAG
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

(d)

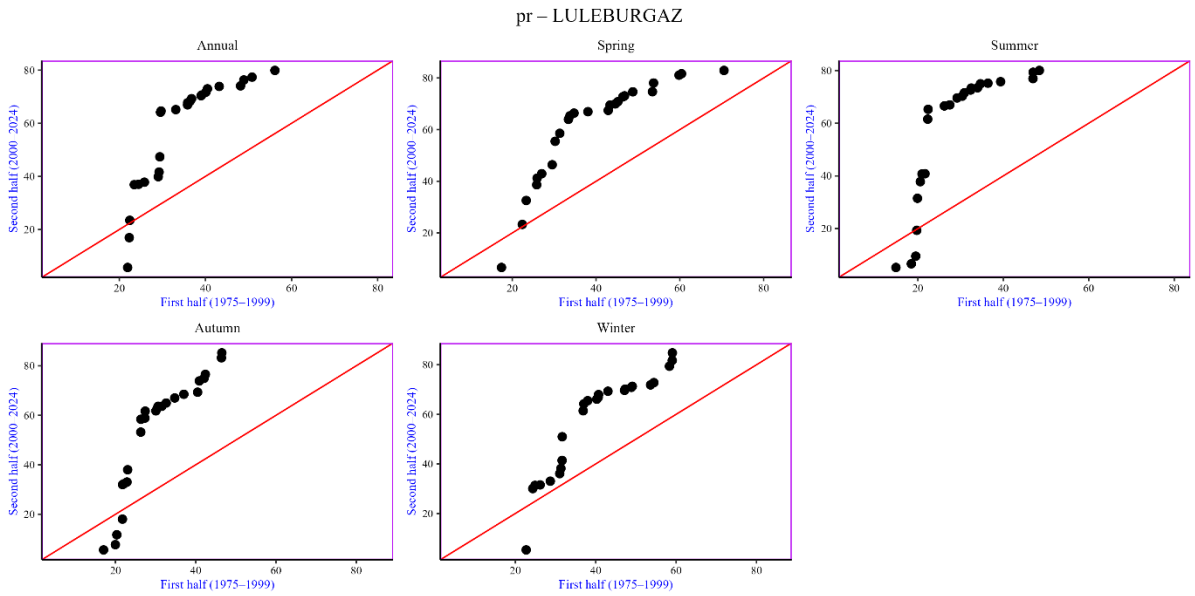


(e)

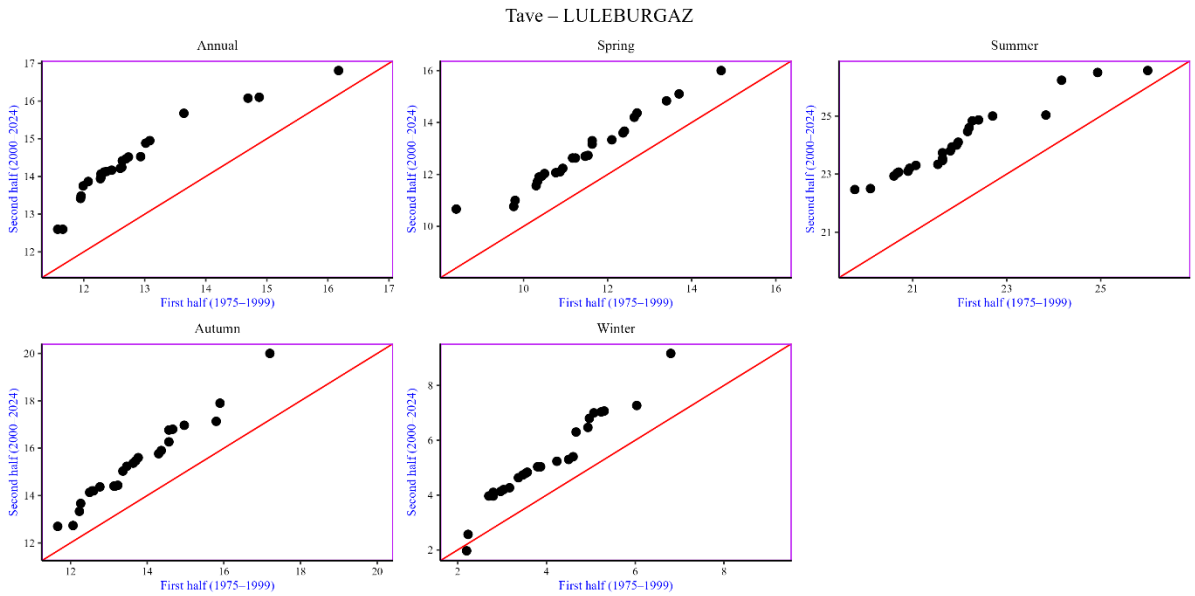


(f)

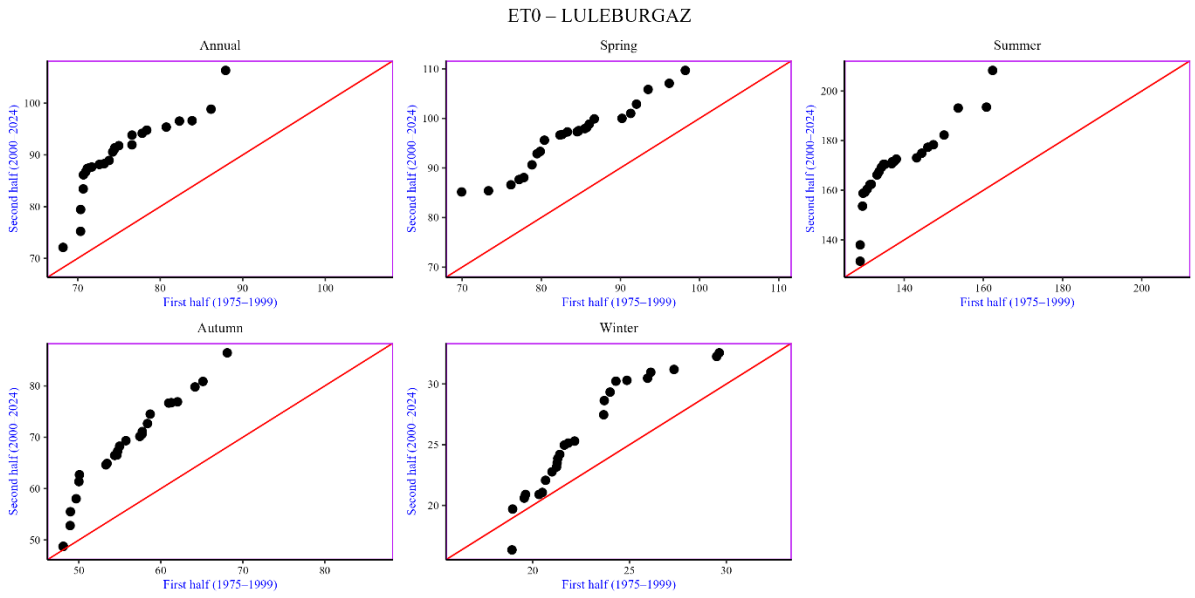
Figure S7. ITA trend results of hydro-vegetation variables at seasonal and annual scales for Tekirdağ: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – LULEBURGAZ
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

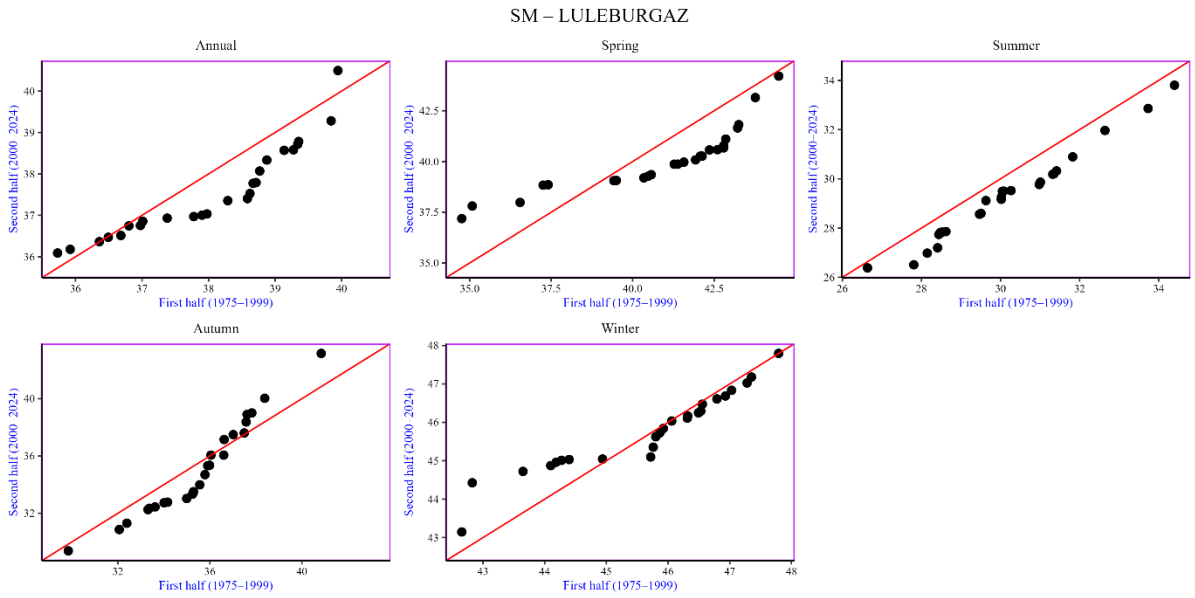
(a)


Tave – LULEBURGAZ
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

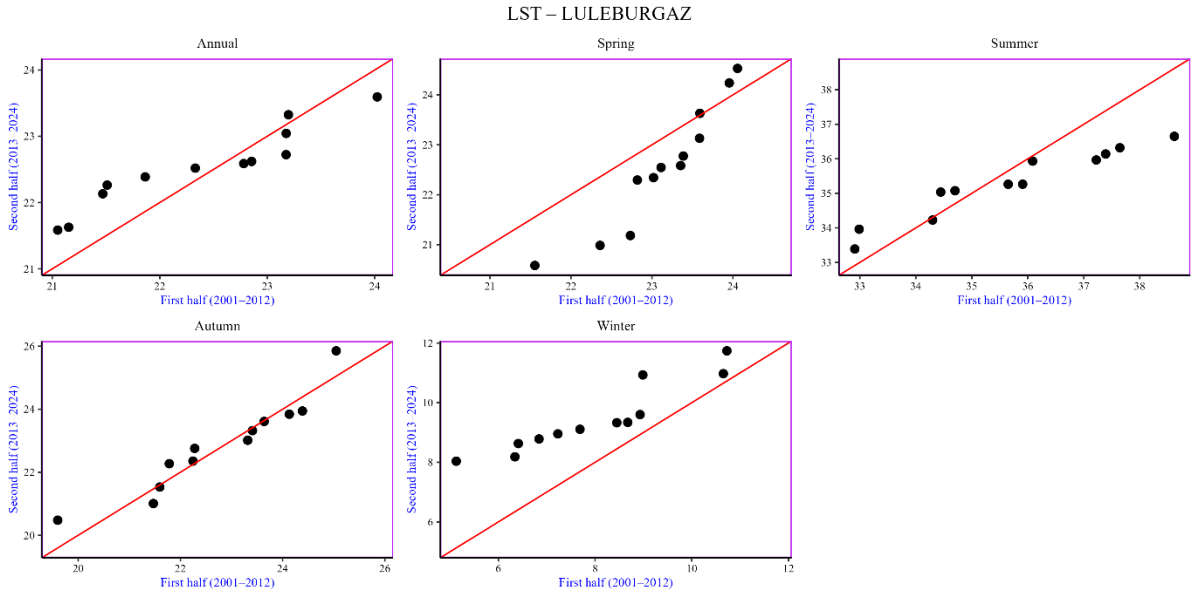
(b)


ET0 – LULEBURGAZ
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

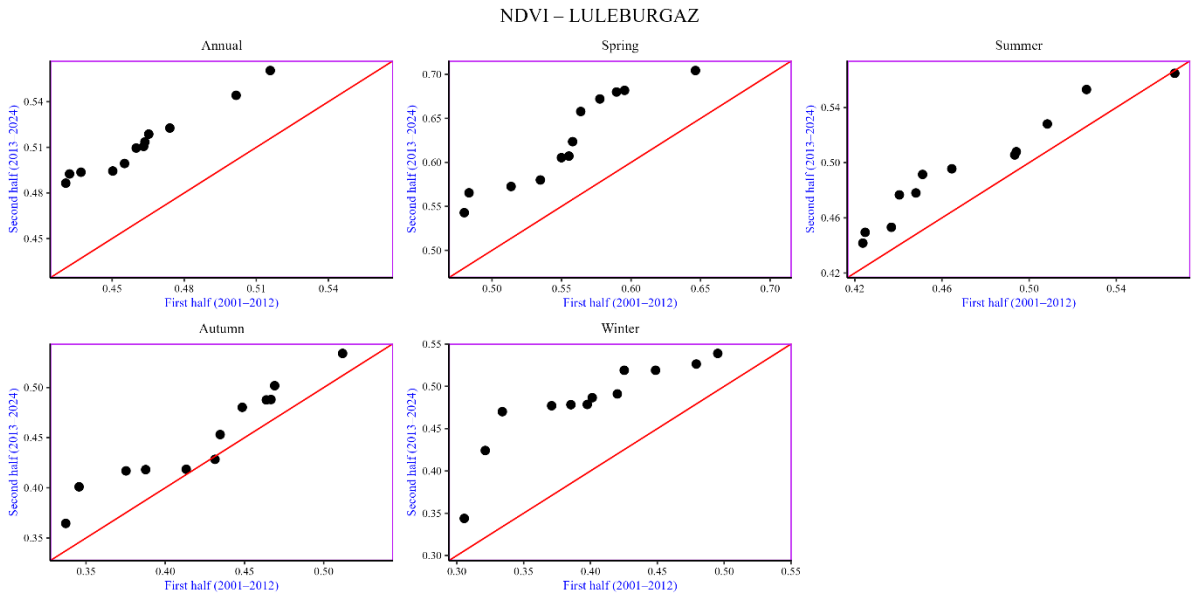
(c)


SM – LULEBURGAZ
Annual
Spring
Summer
Autumn
Winter
Second half (2000–2024)
First half (1975–1999)

(d)

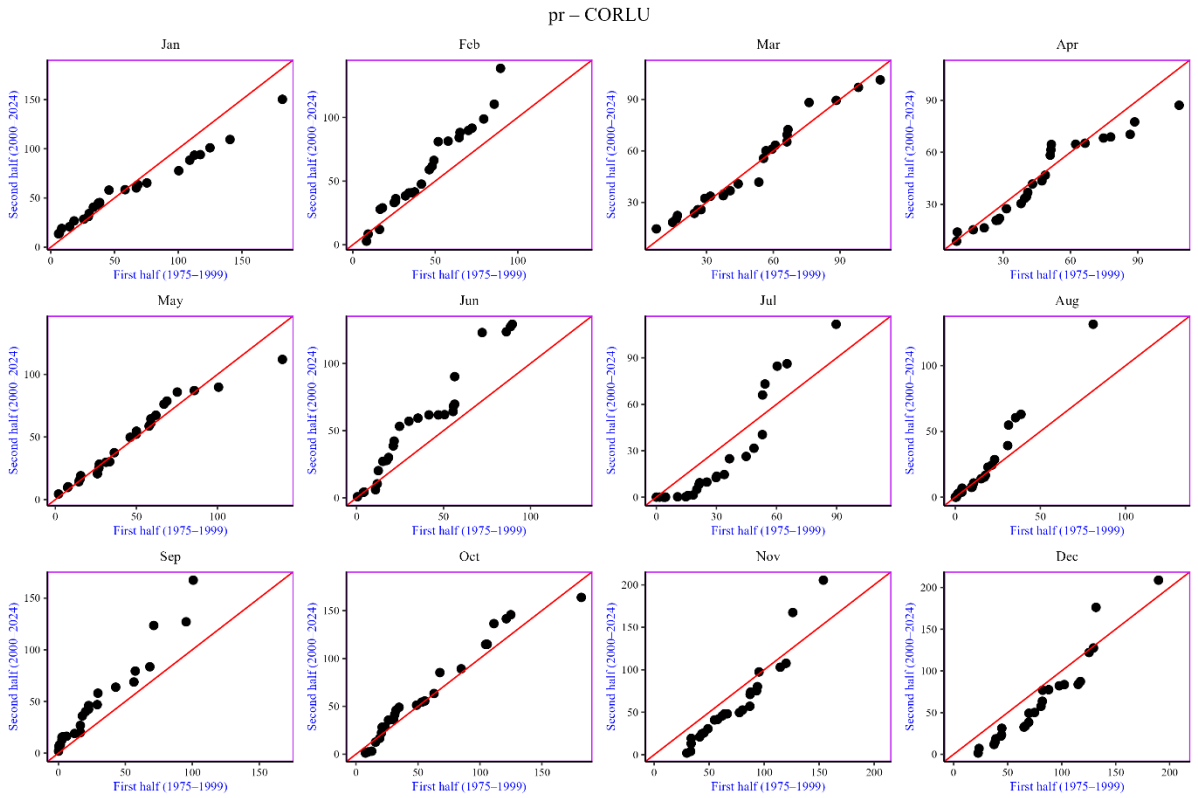


(e)

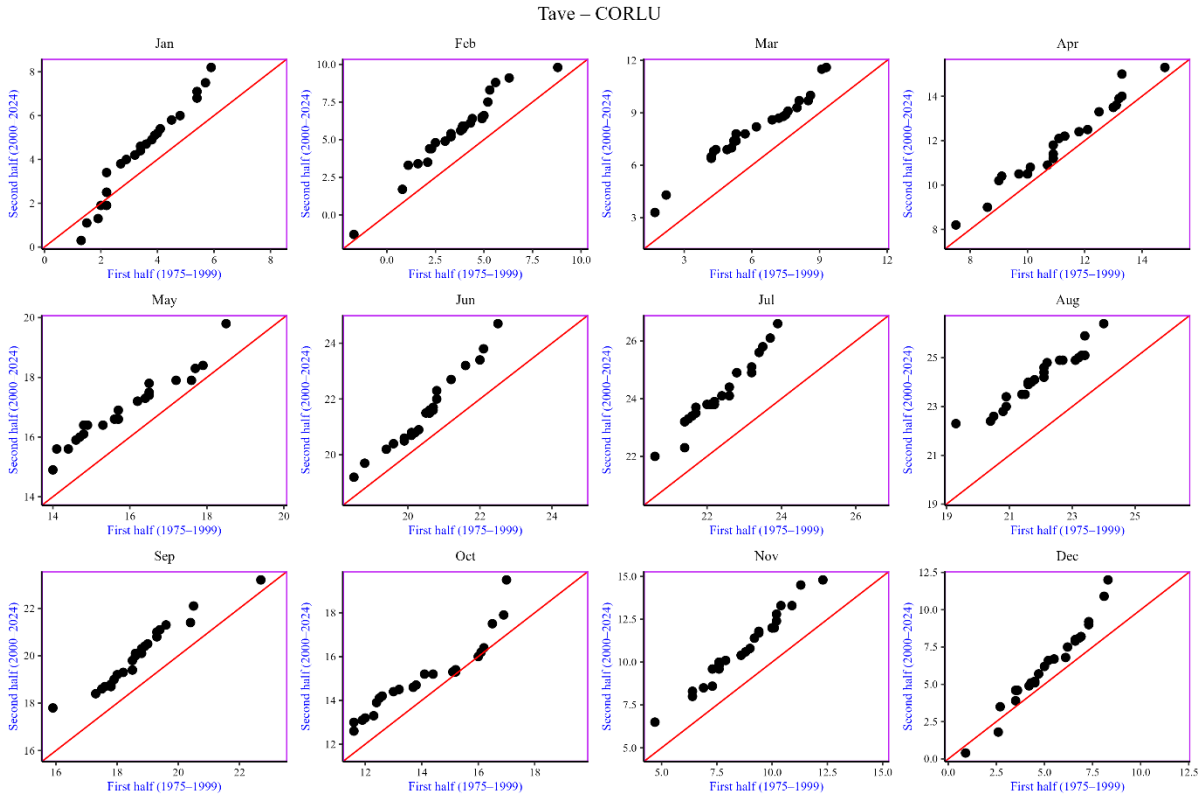


(f)

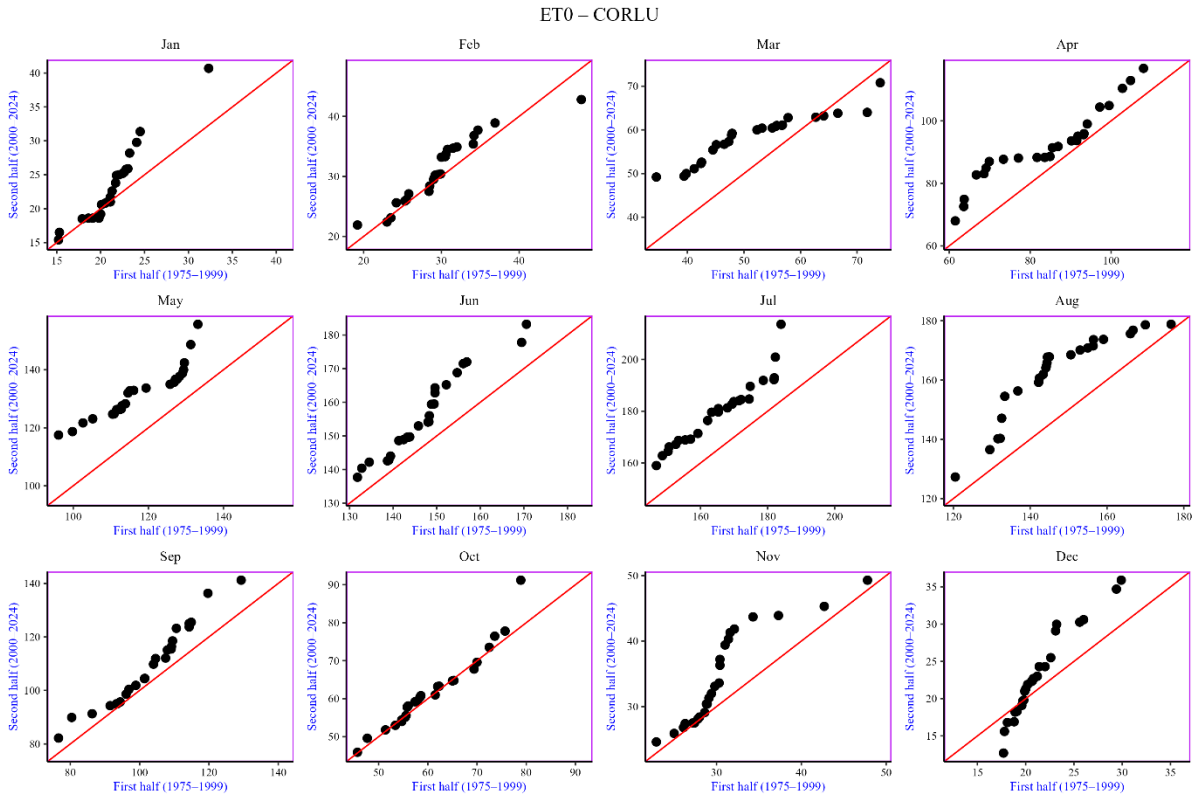
Figure S8. ITA trend results of hydro-vegetation variables at seasonal and annual scales for Lüleburgaz: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

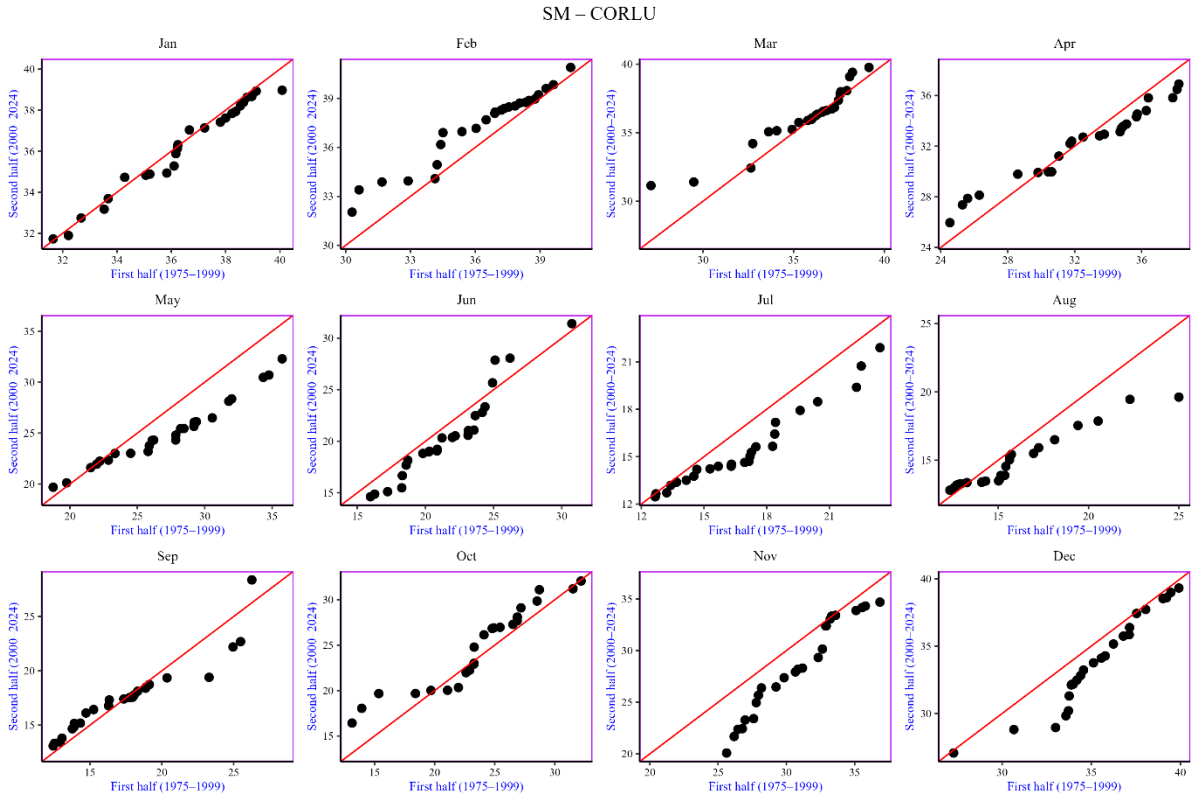
(a)


Tave – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

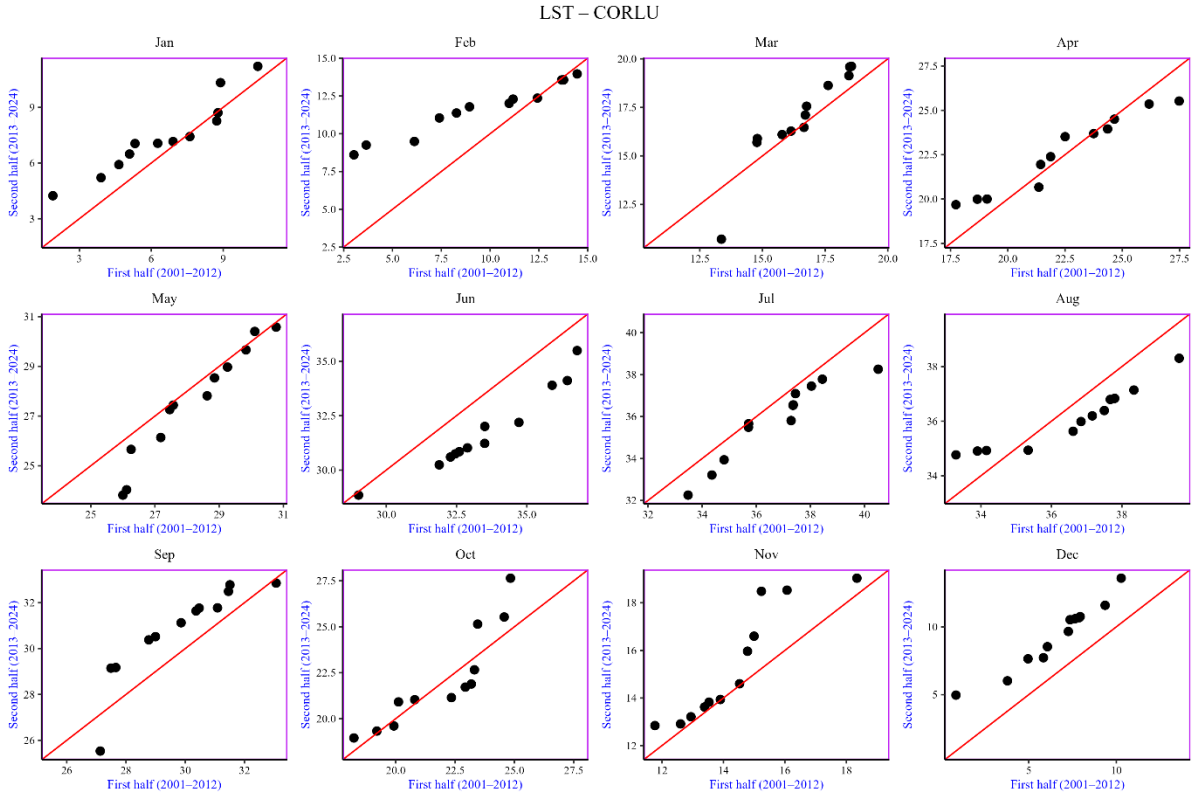
(b)


ET0 – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

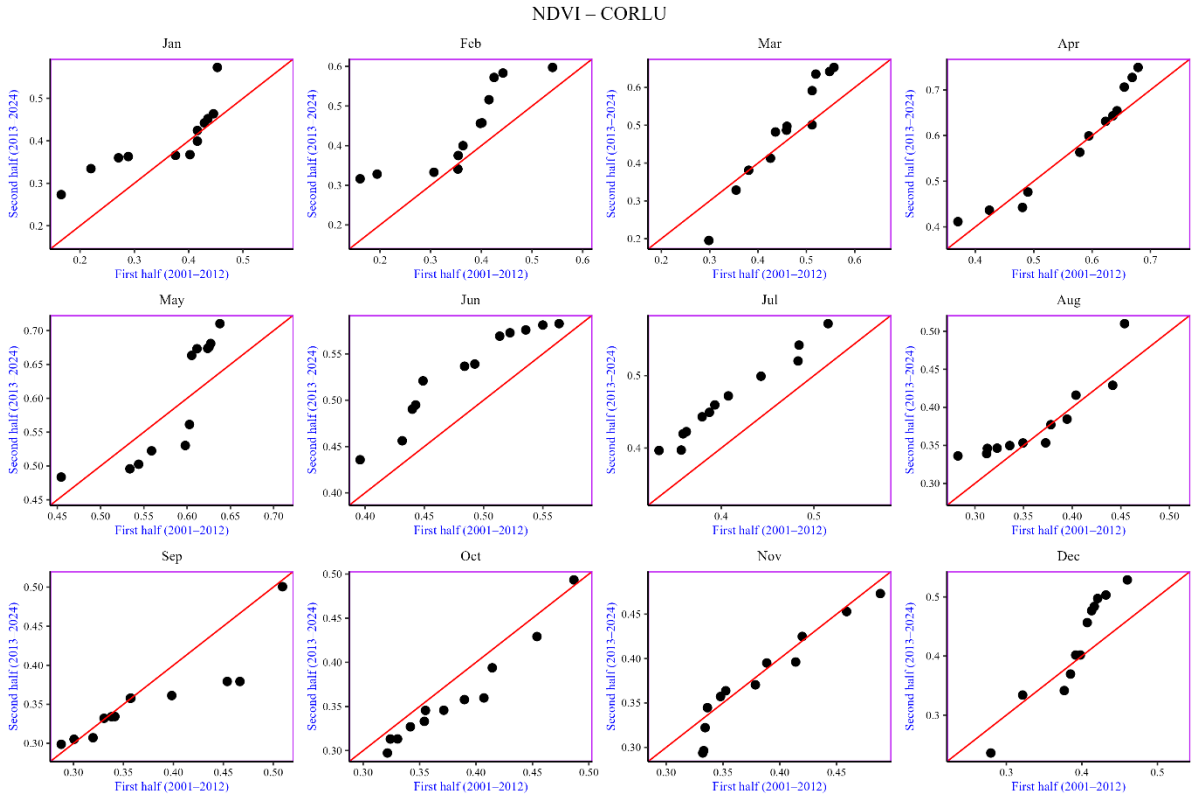
(c)


SM – CORLU
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

(d)

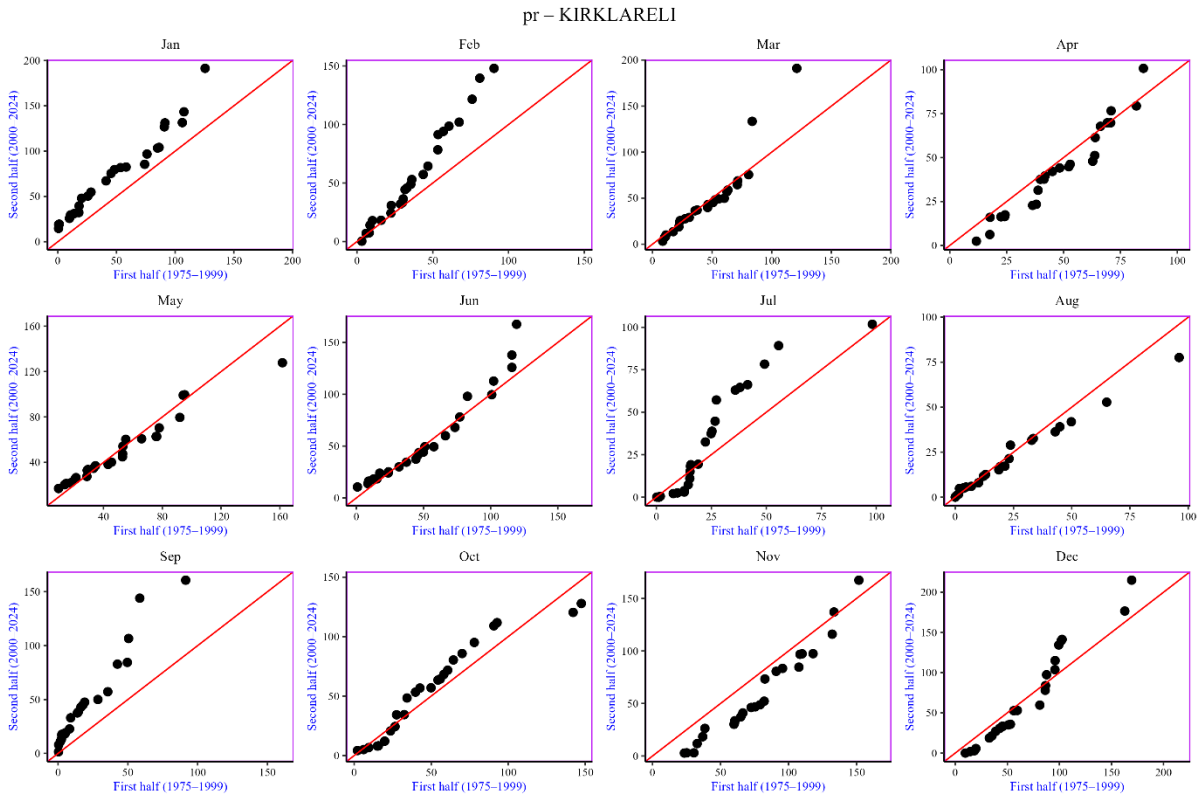


(e)

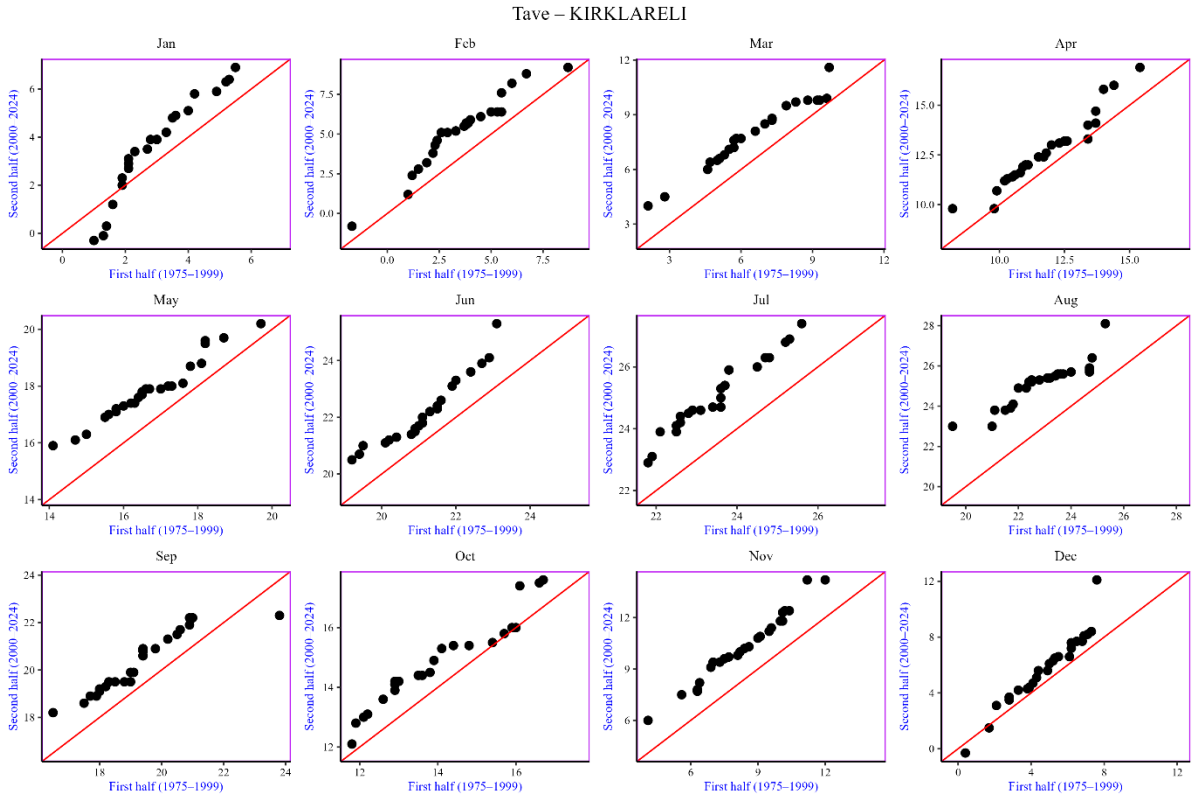


(f)

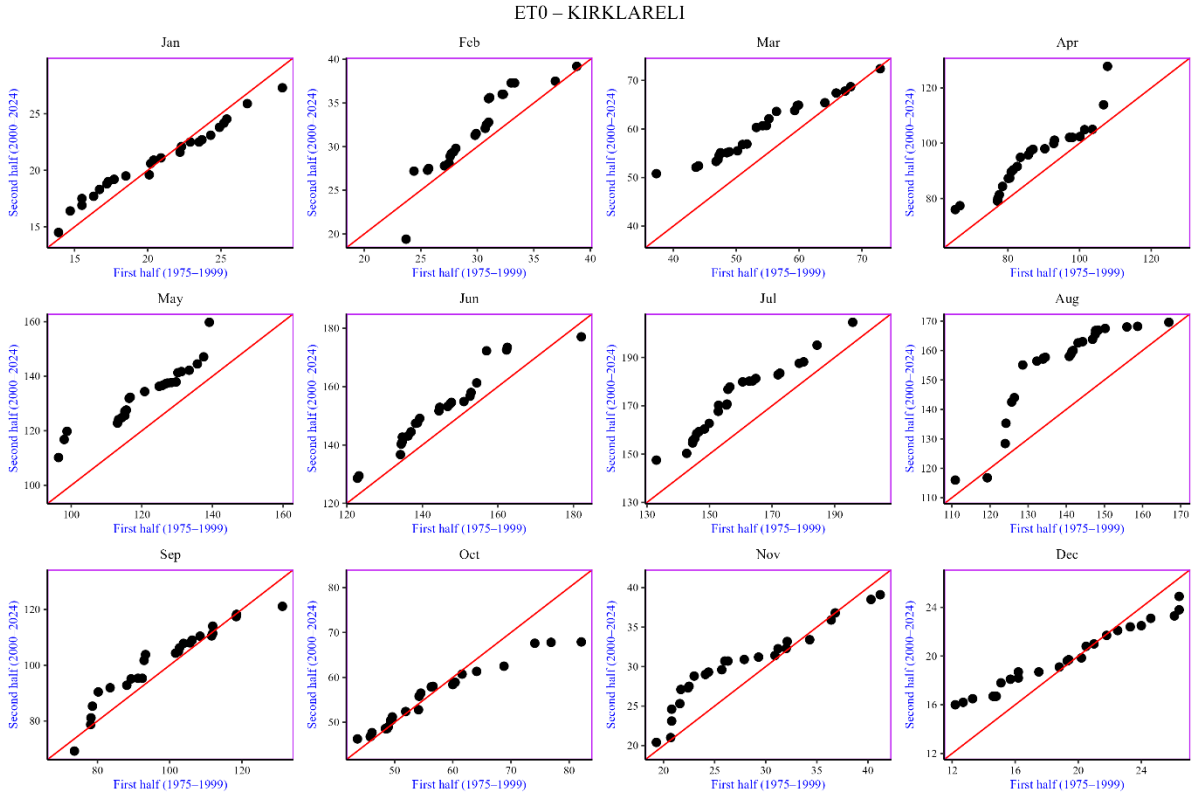
Figure S9. ITA trend results of hydro-vegetation variables at monthly scale for Çorlu: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

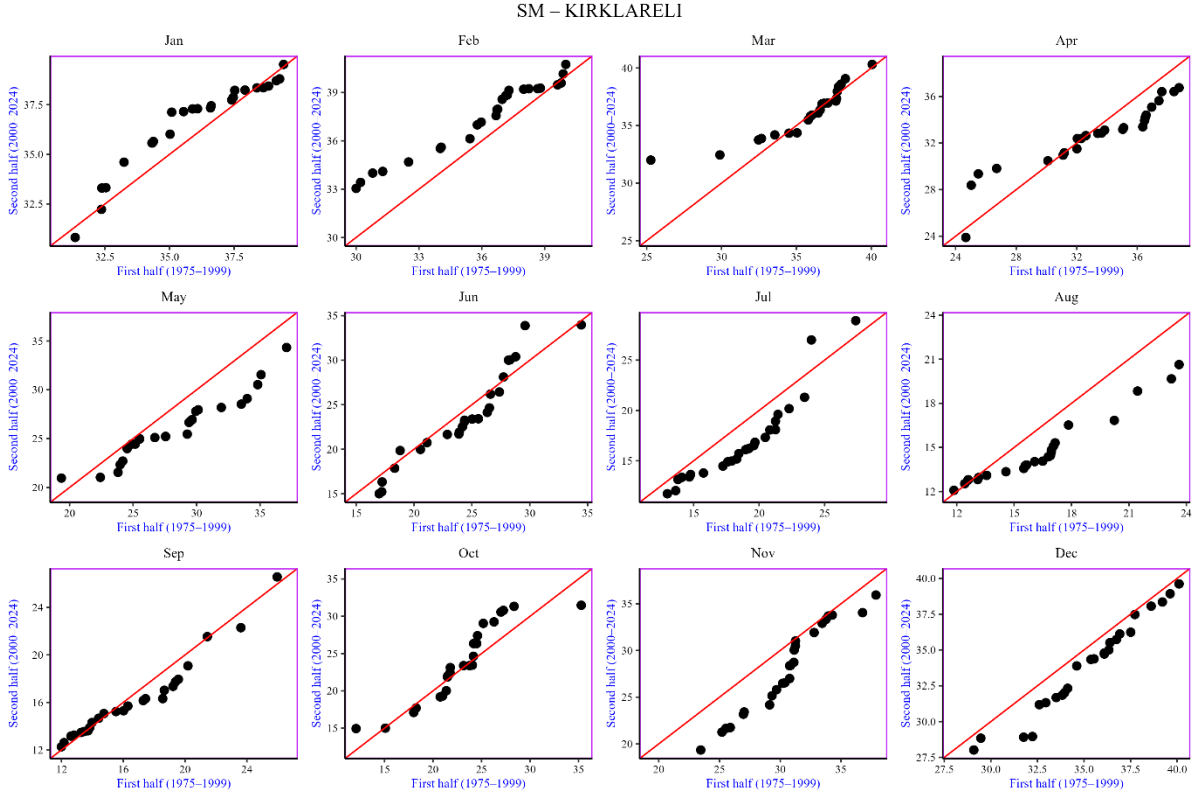
(a)


Tave – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

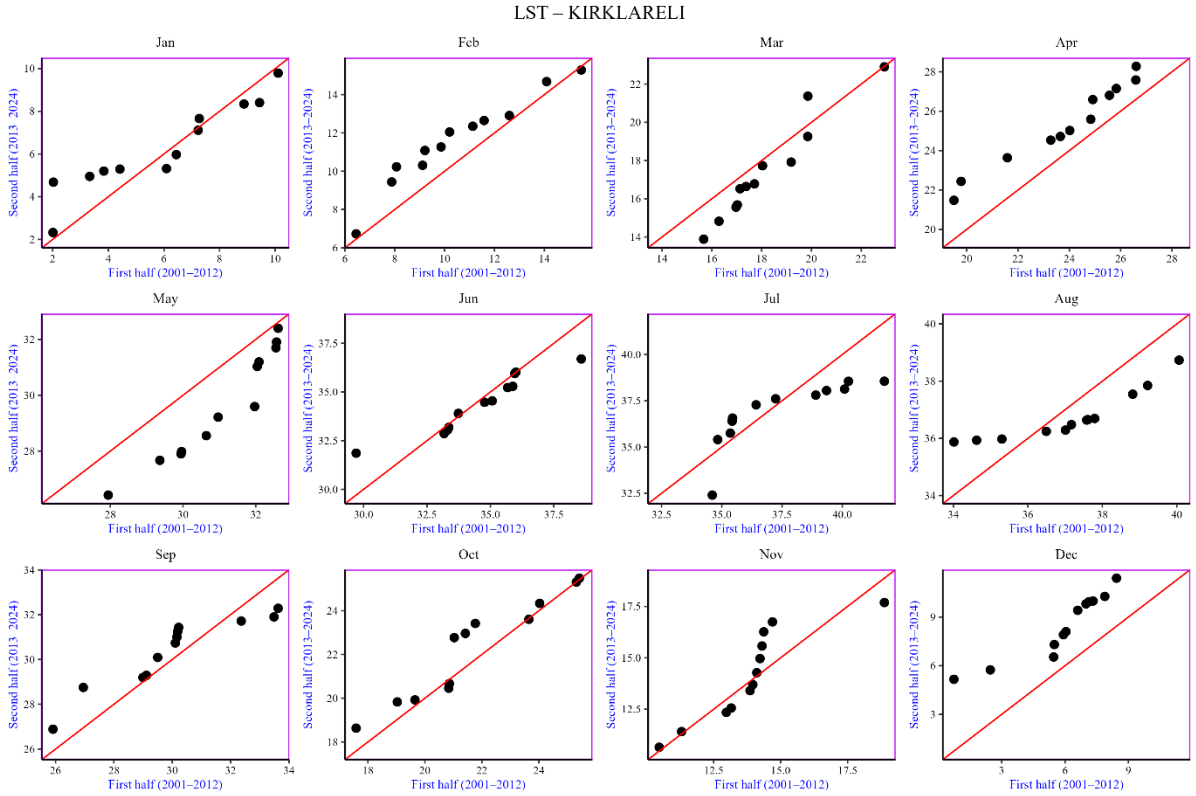
(b)


ET0 – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

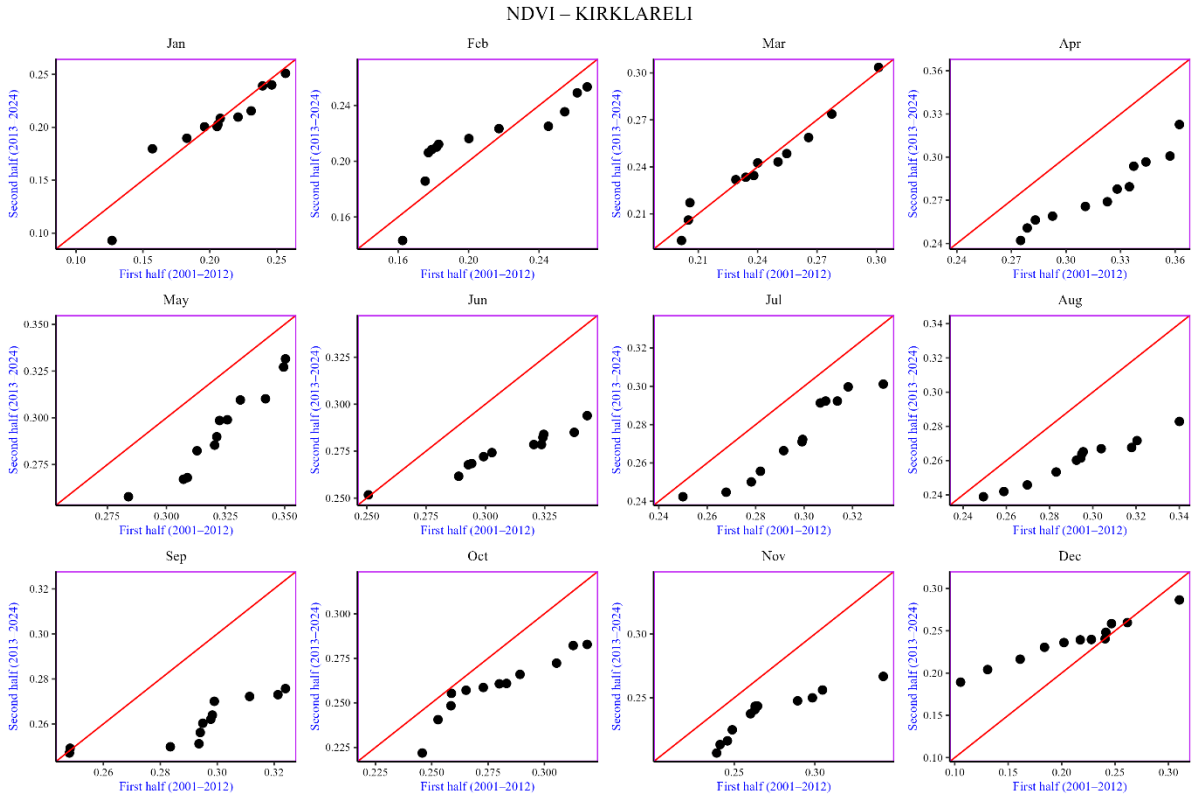
(c)


SM – KIRKLARELI
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

(d)

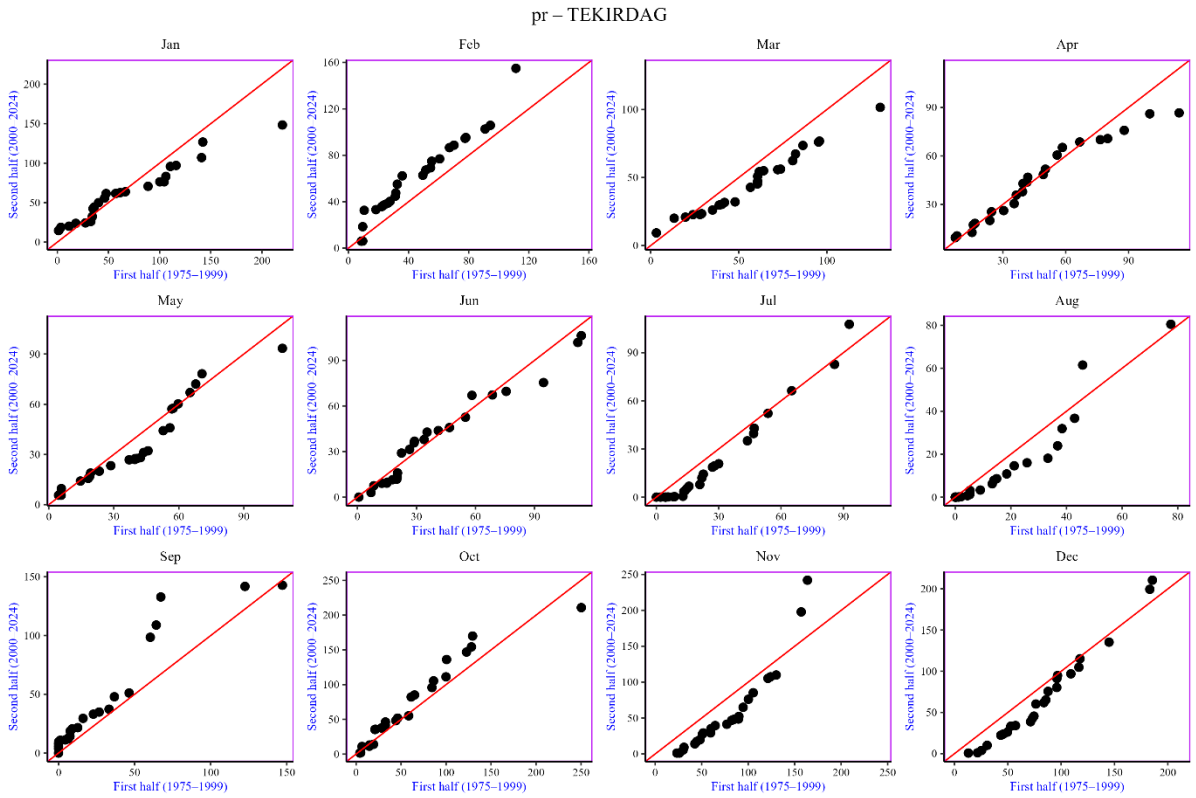


(e)

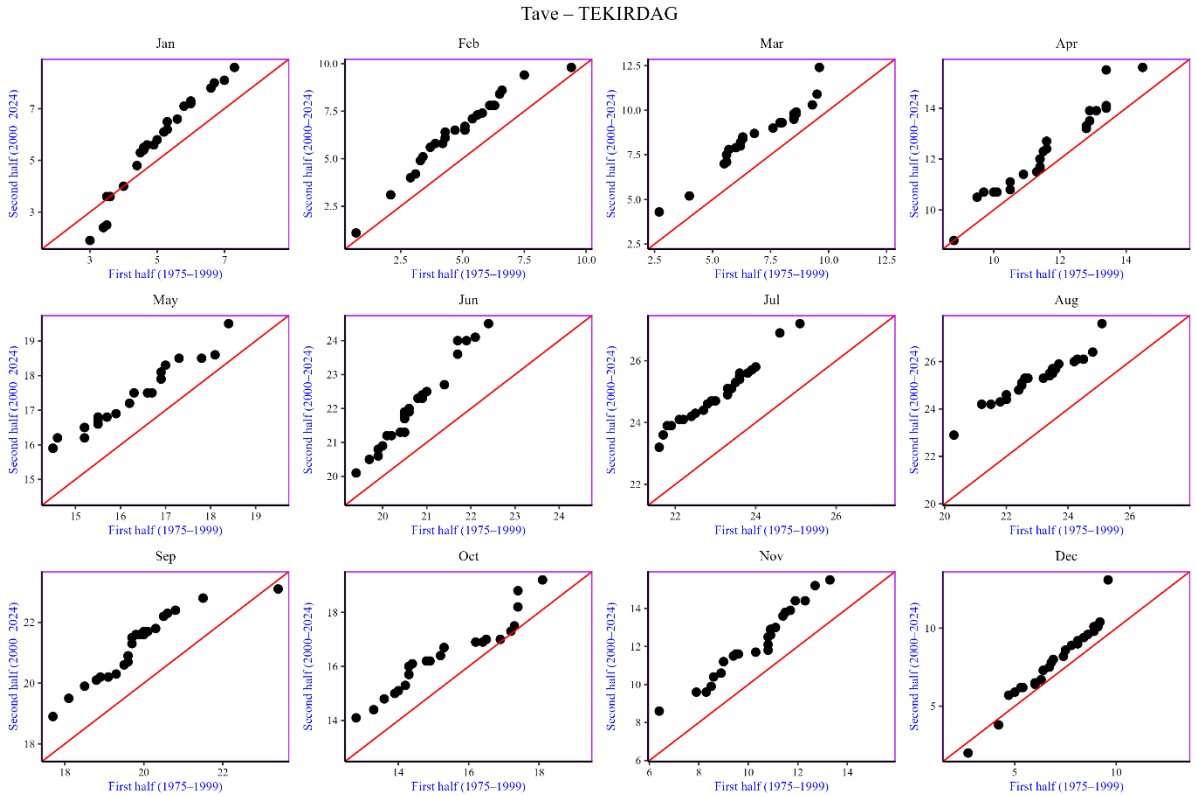


(f)

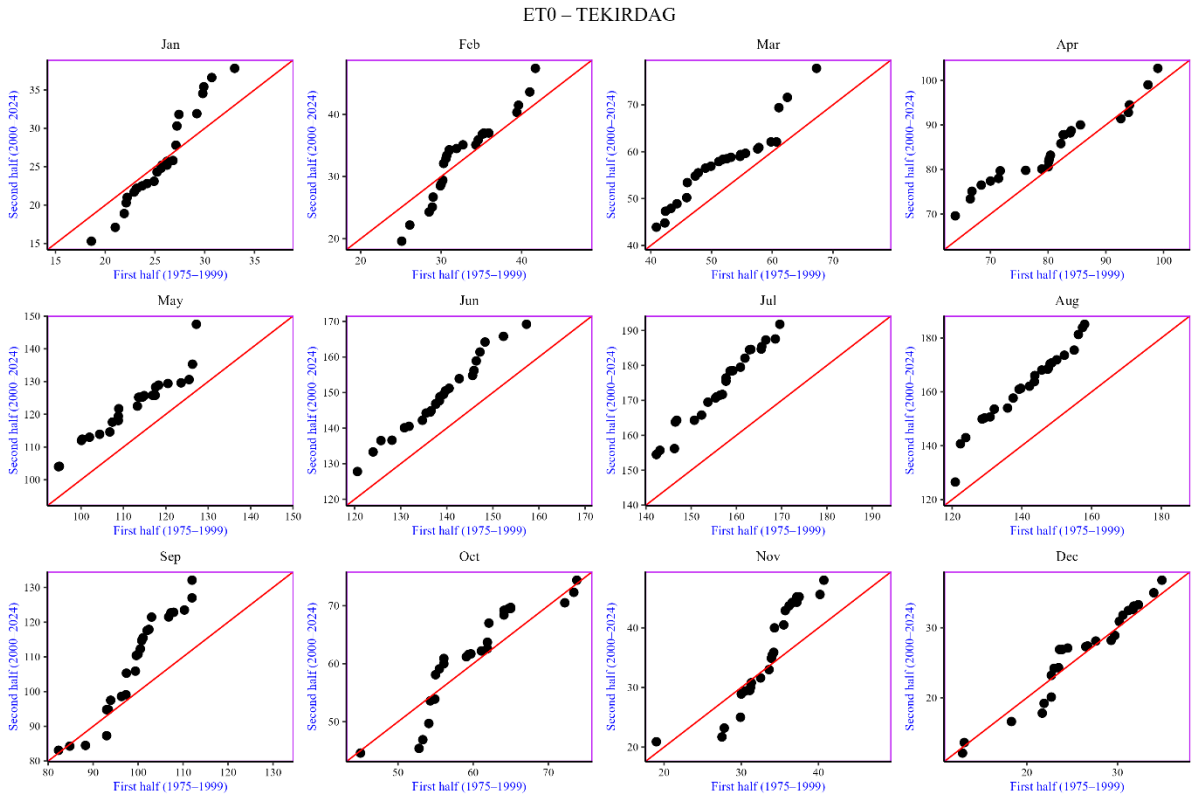
Figure S10. ITA trend results of hydro-vegetation variables at monthly scale for Kırklareli: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

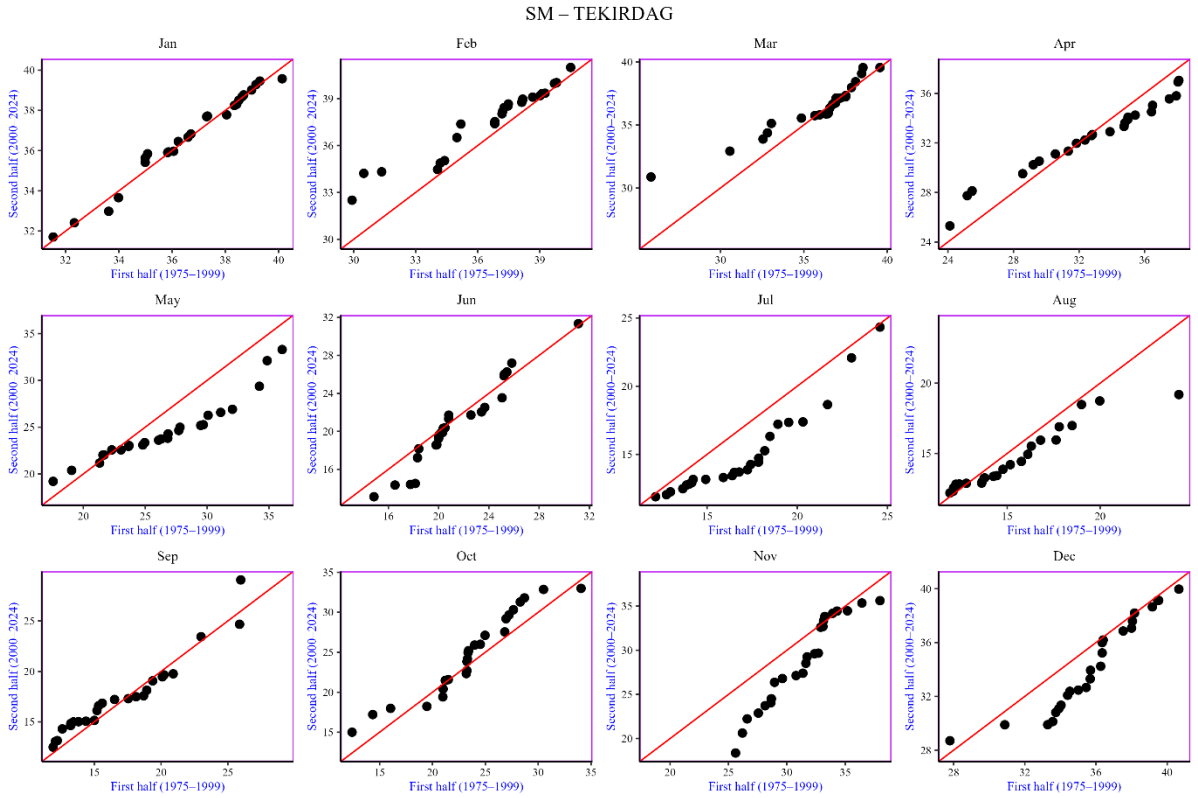
(a)


Tave – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

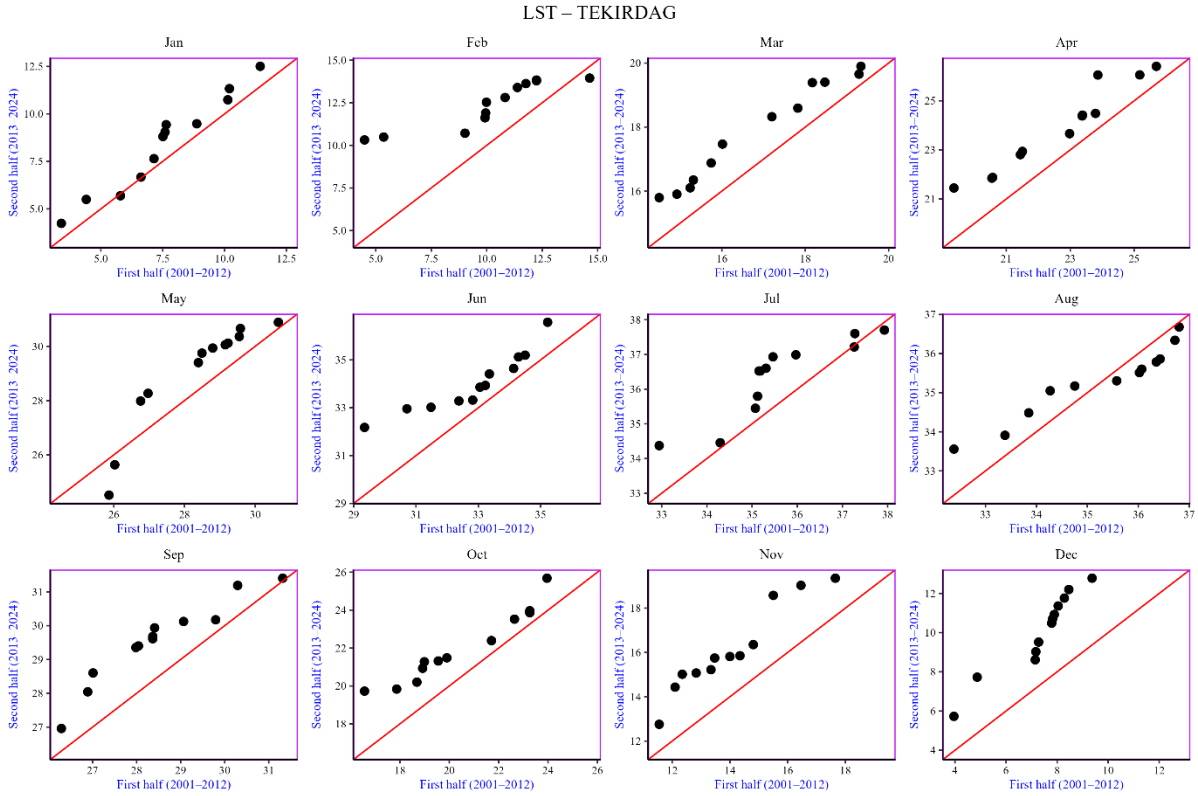
(b)


ET0 – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

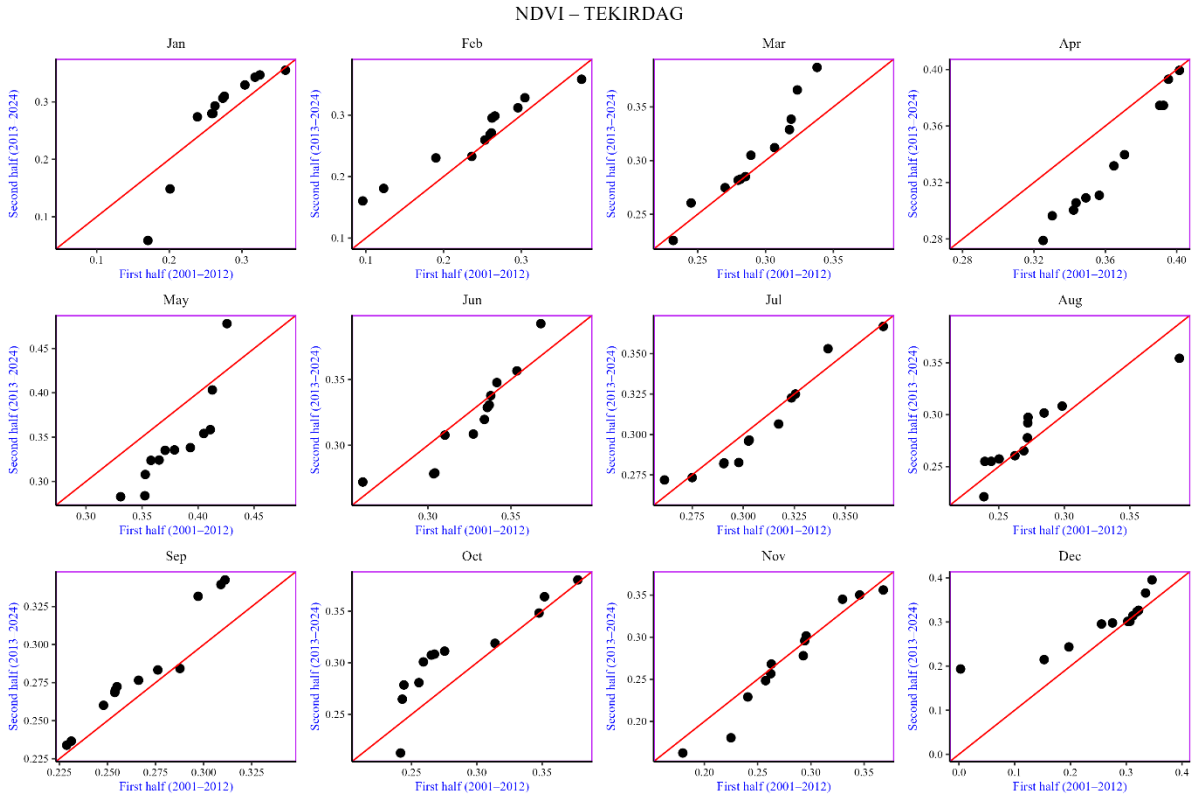
(c)


SM – TEKIRDAG
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

(d)

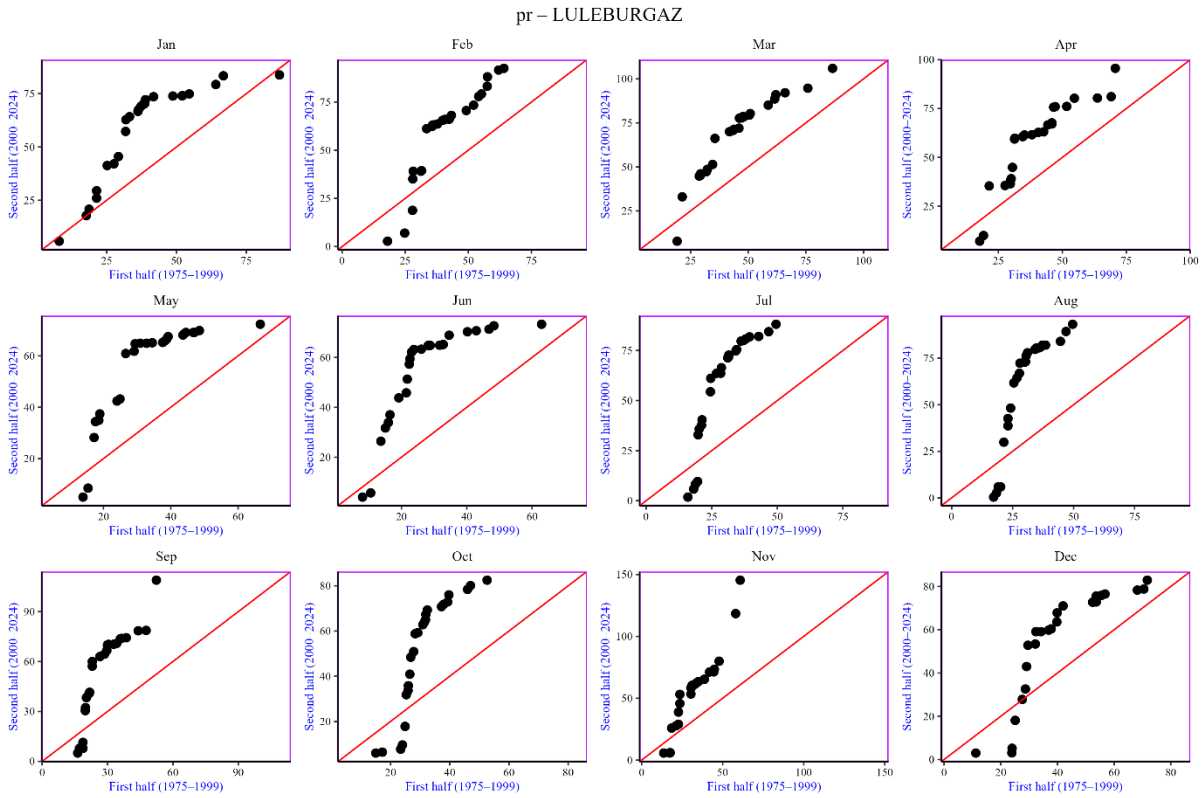


(e)

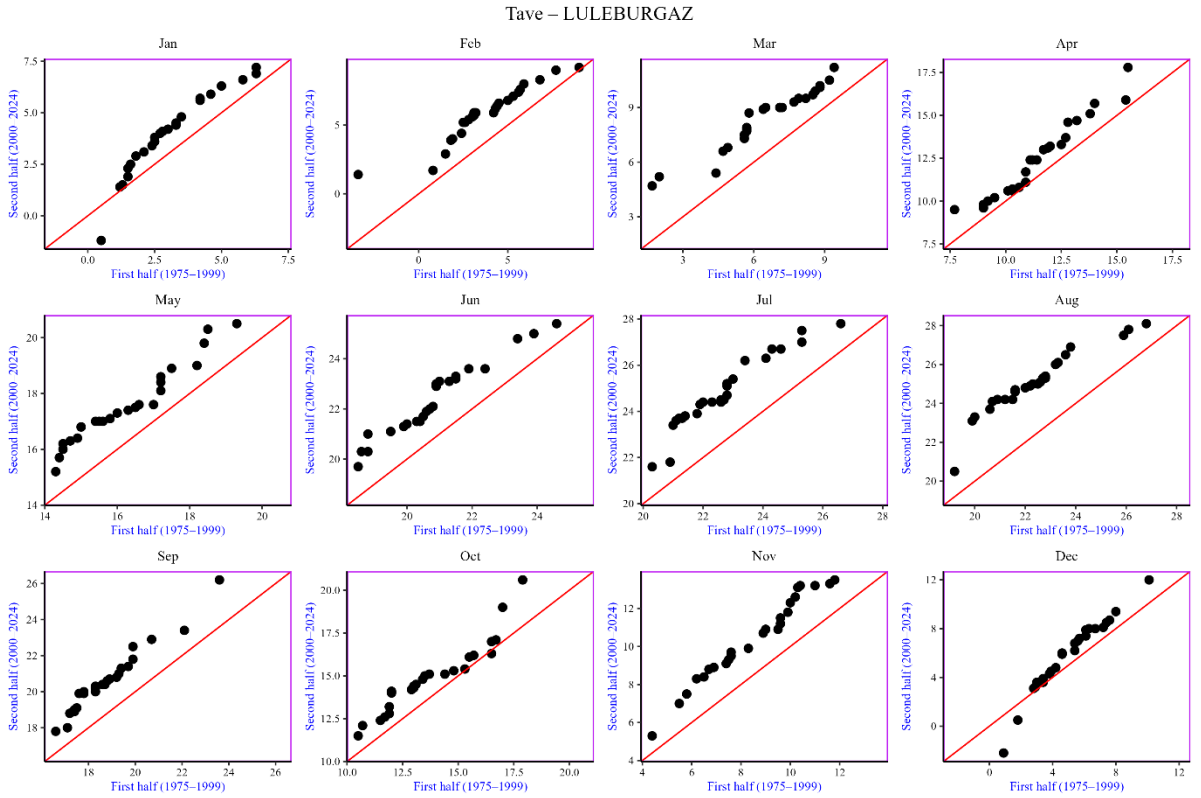


(f)

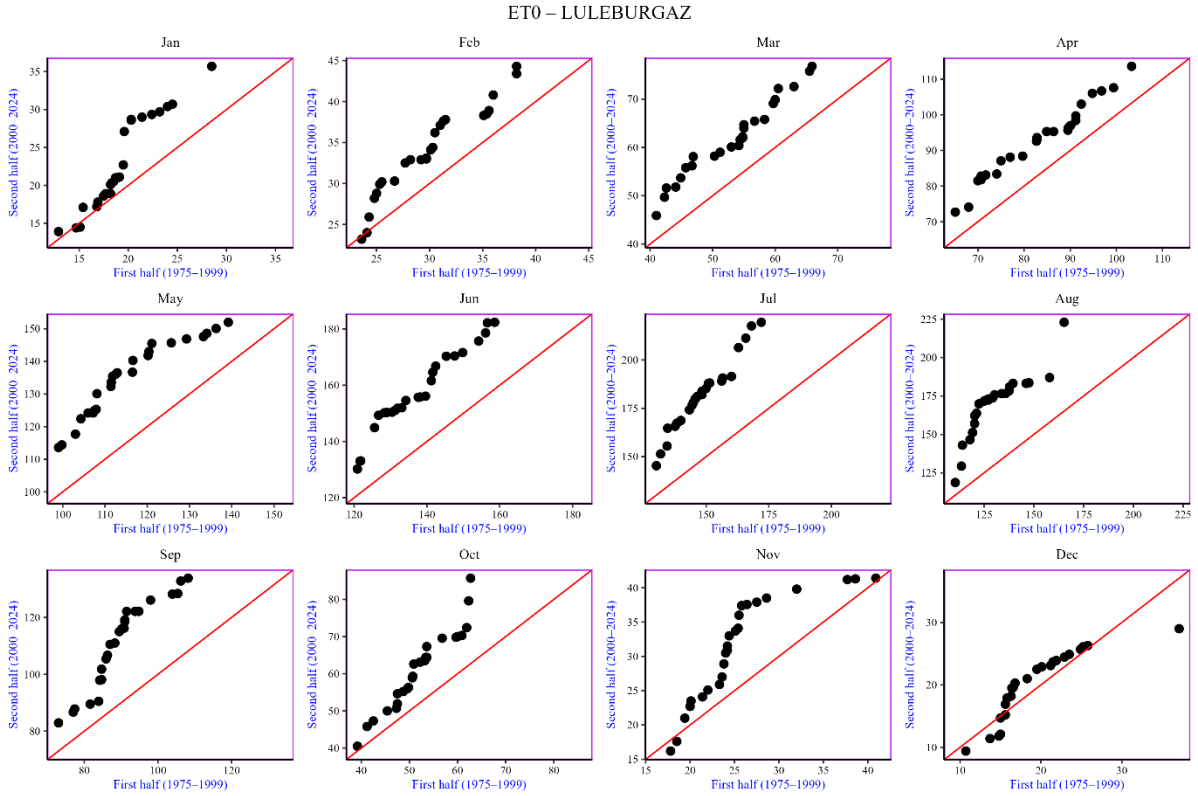
Figure S11. ITA trend results of hydro-vegetation variables at monthly scale for Lüleburgaz: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI


pr – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

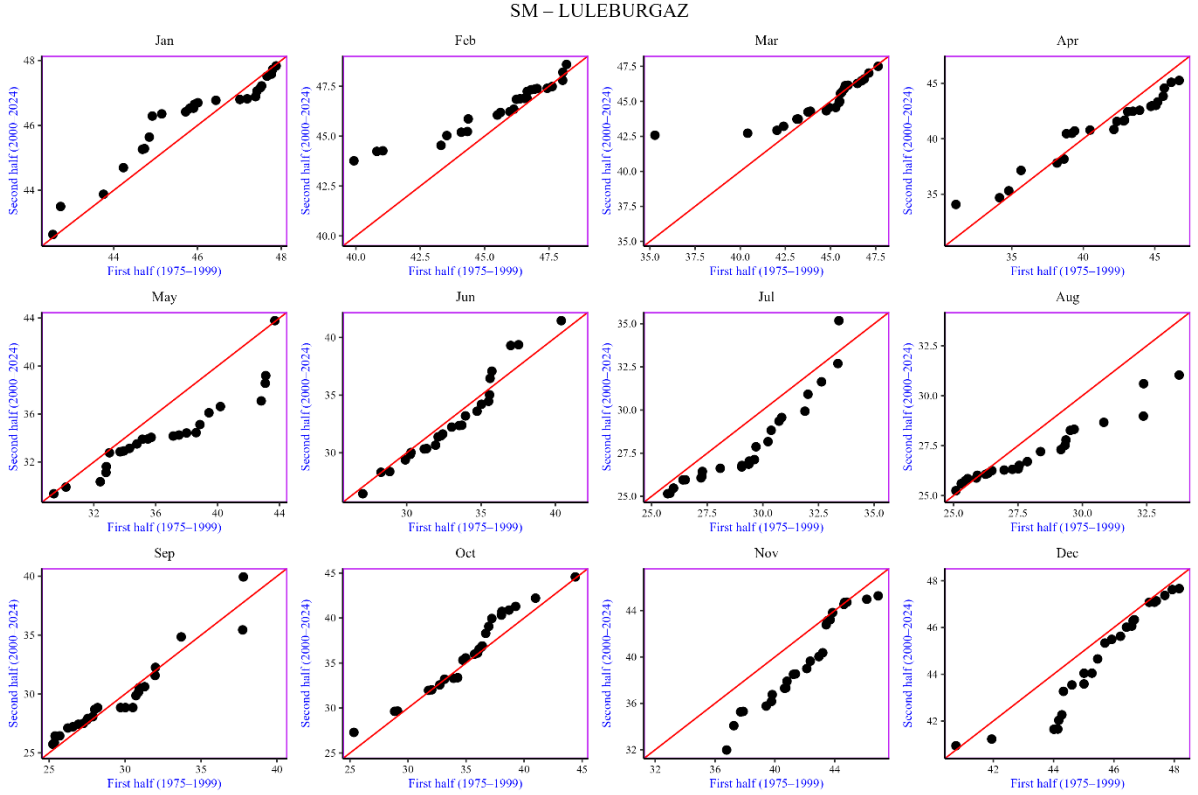
(a)


Tave – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

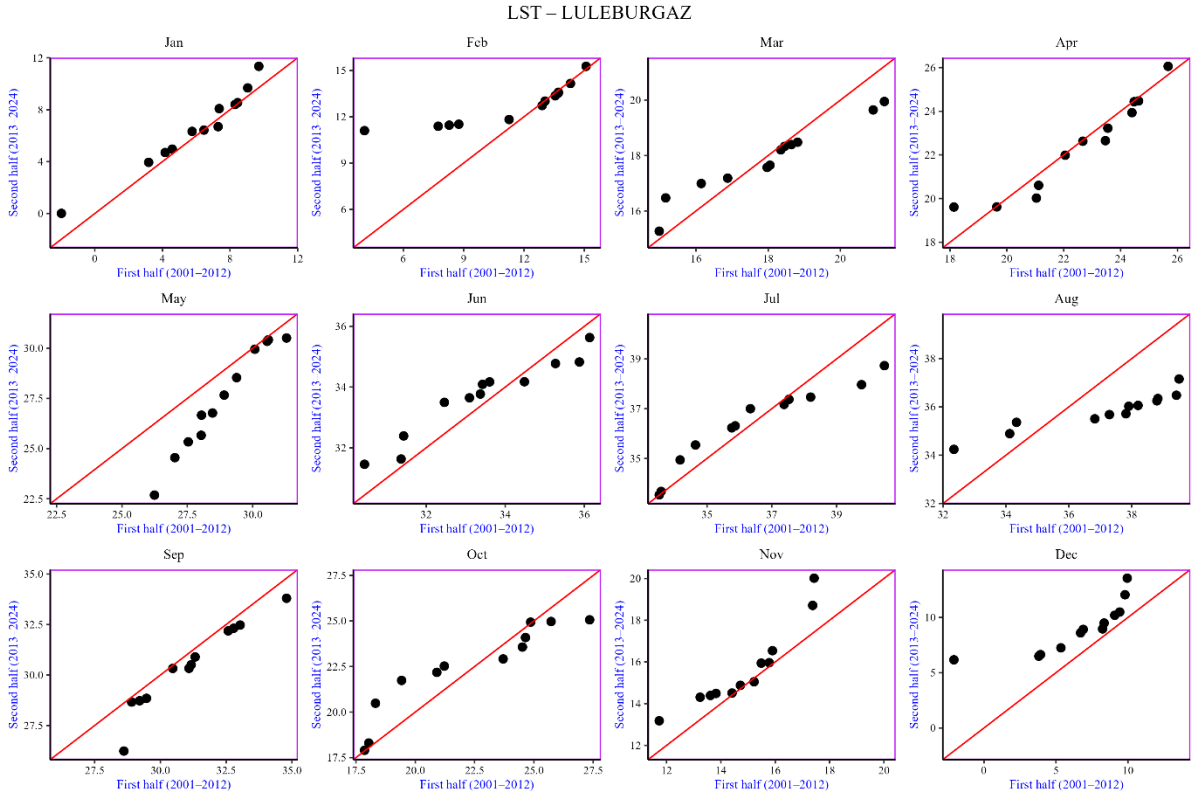
(b)


ET0 – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

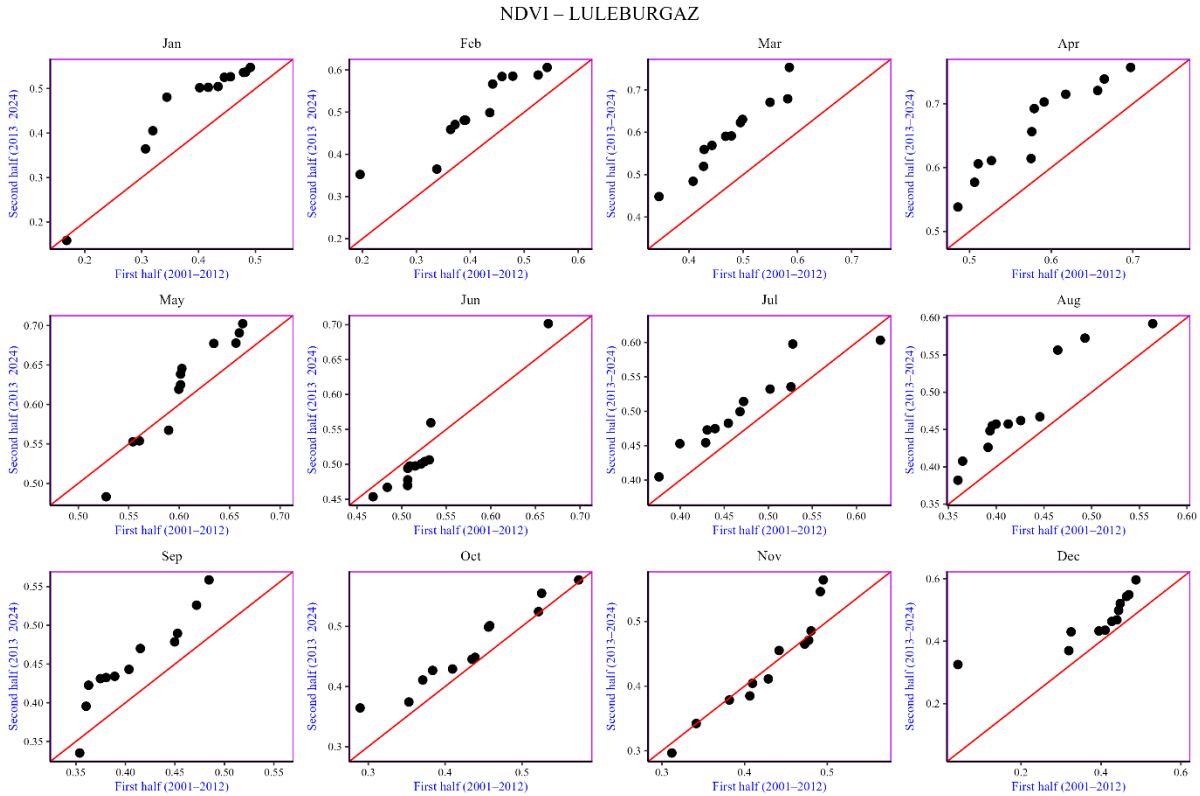
(c)


SM – LULEBURGAZ
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Second half (2000–2024)
First half (1975–1999)

(d)



(e)



(f)

Figure S12. ITA trend results of hydro-vegetation variables at monthly scale for Lüleburgaz: (a) pr, (b) Tave, (c) ET0, (d) SM, (e) LST, (f) NDVI