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Supplement of

Climatic traits on daily clearness and cloudiness indices

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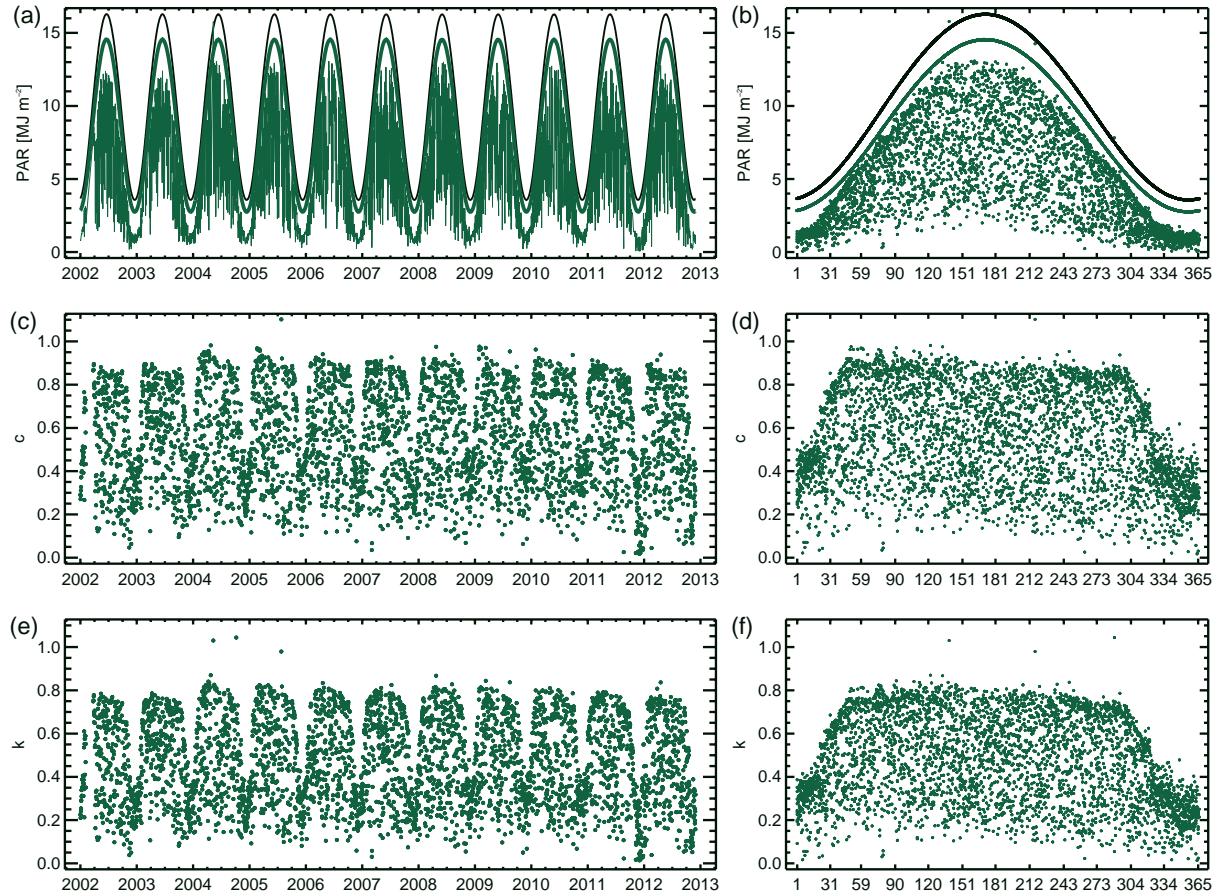


Figure S1. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at AT-Neu. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

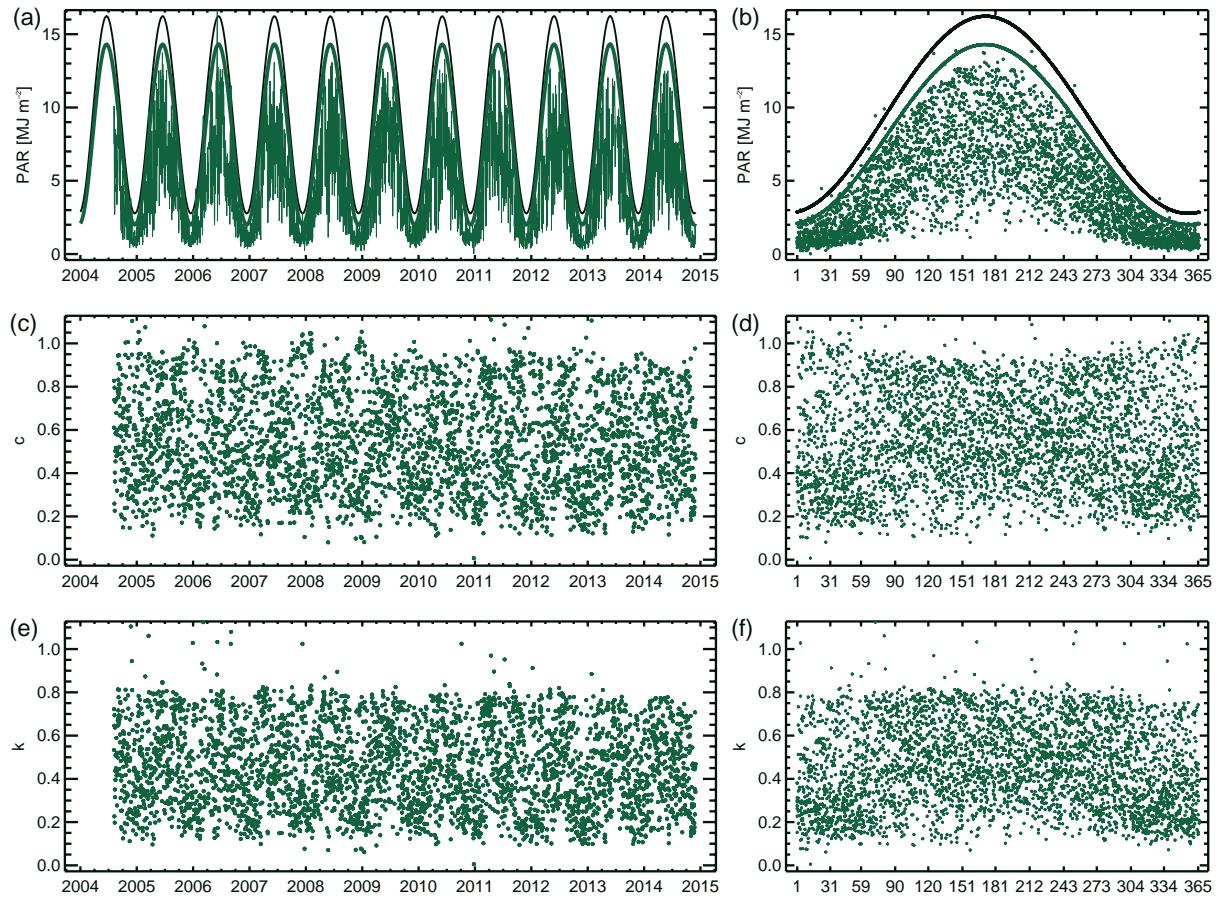


Figure S2. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at BE-Lon. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

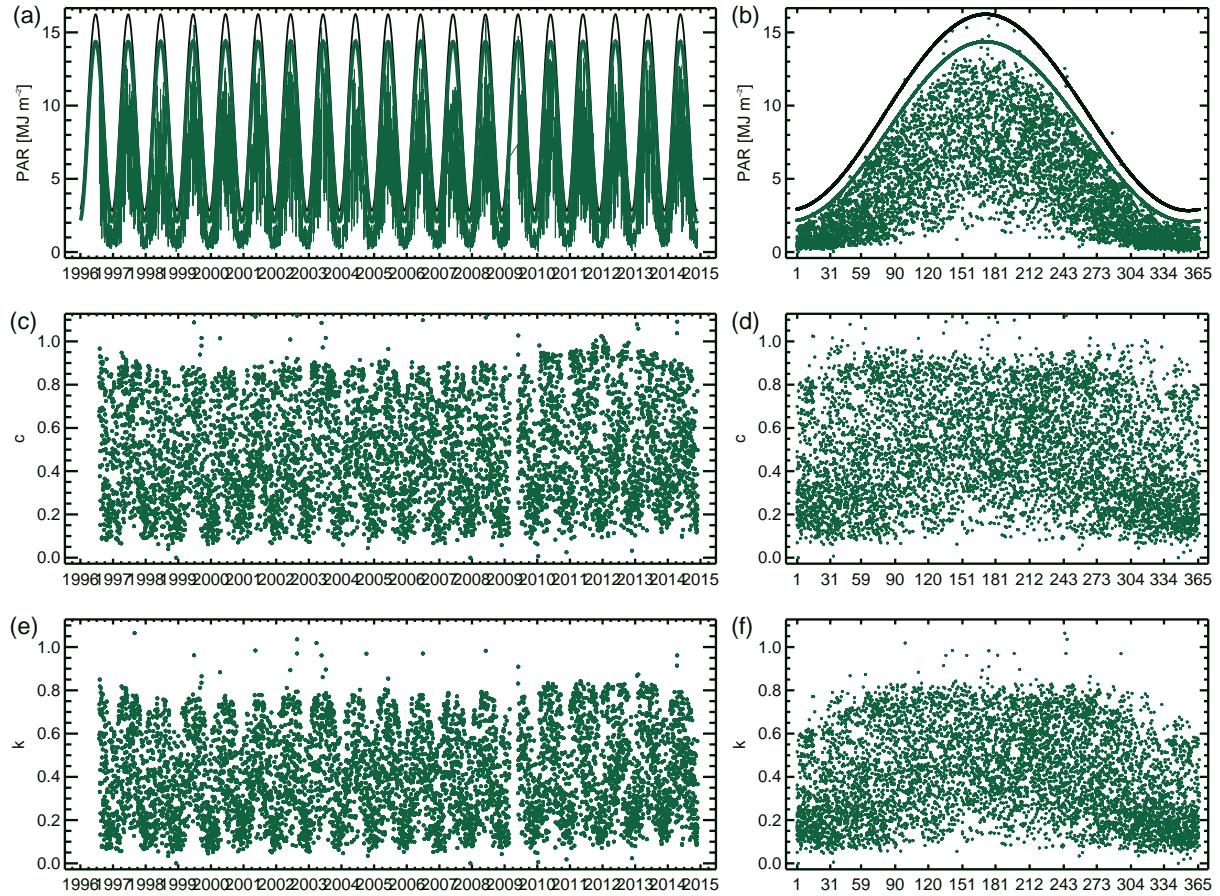


Figure S3. Time series, annual cycle, and autocorrelation function of PAR (a–c), *c* (d–f), and *k* (g–i) at BE-Vie. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

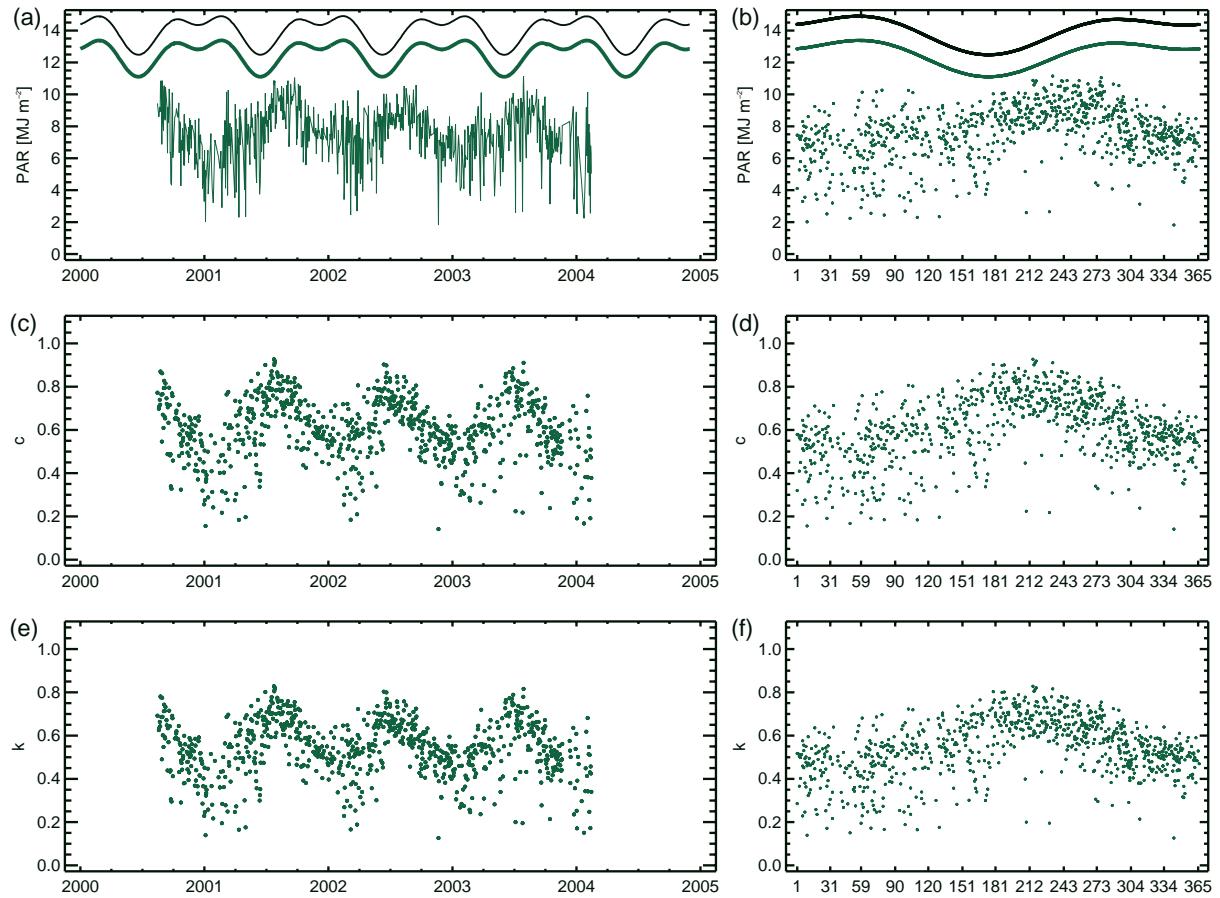


Figure S4. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at BR-Sa3. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

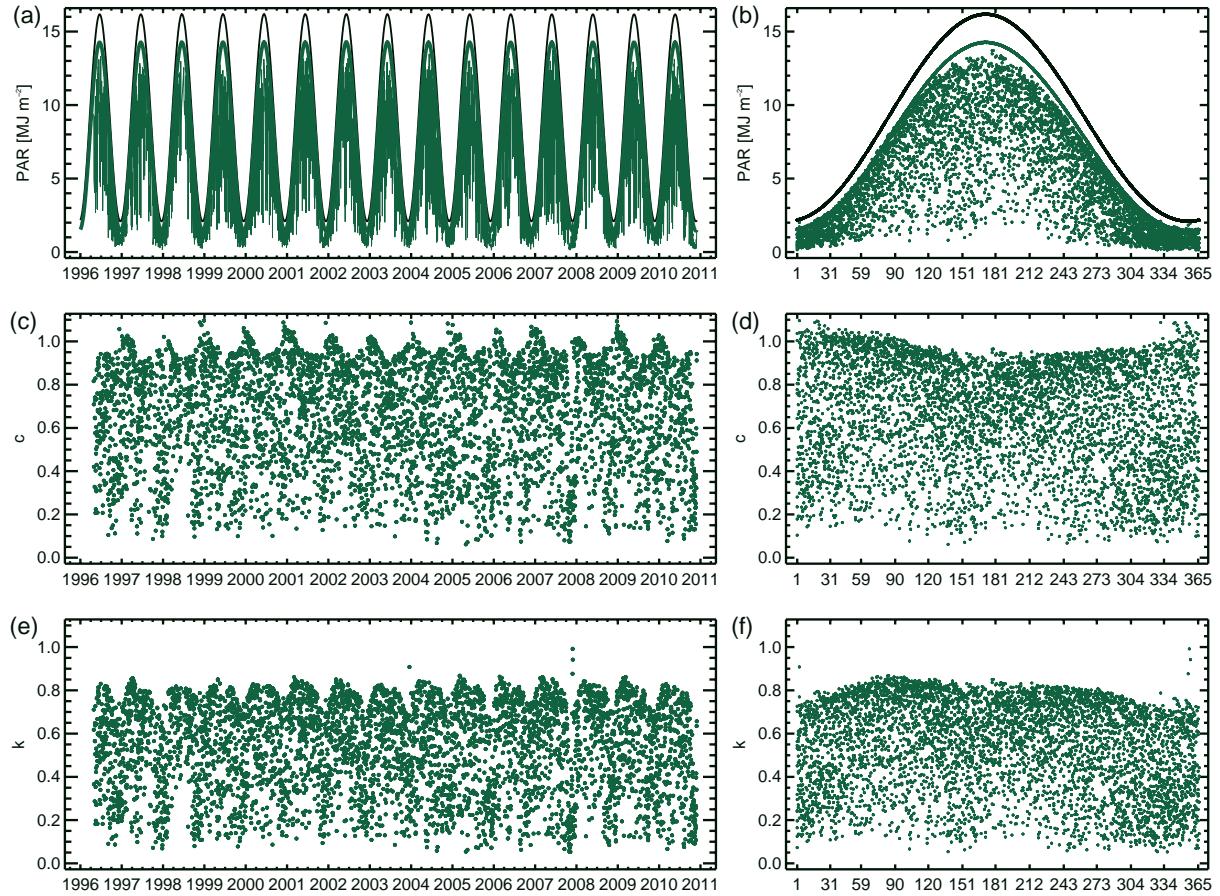


Figure S5. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at CA-Oas. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

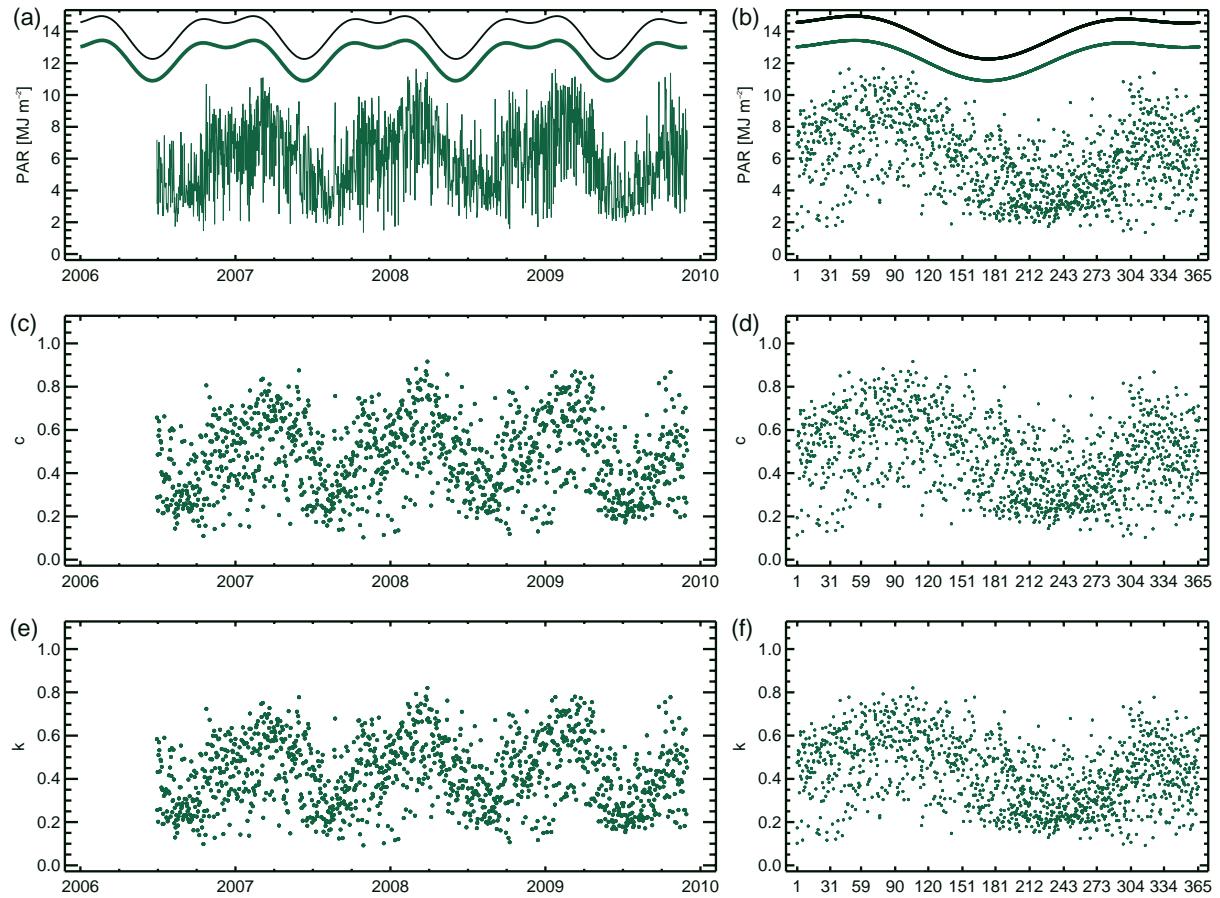


Figure S6. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at CG-Tch. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

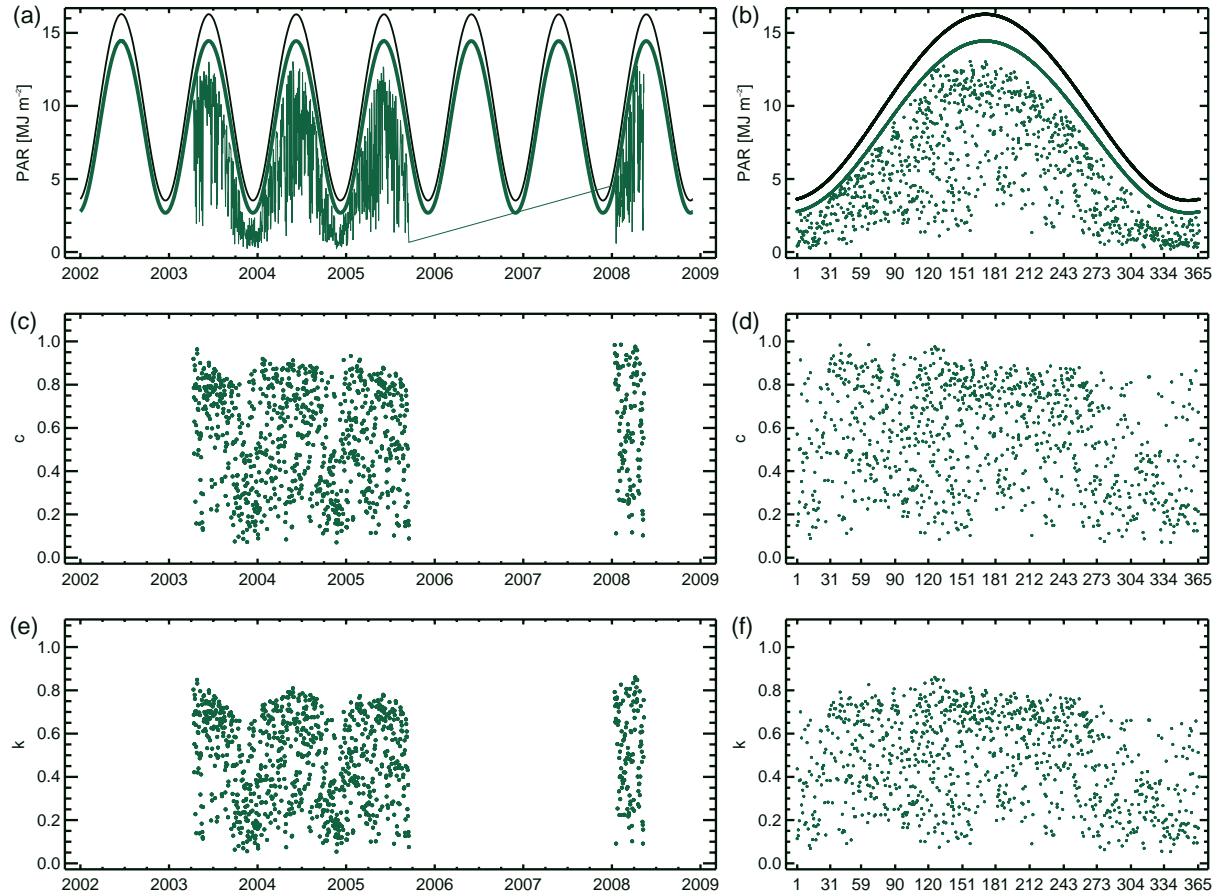


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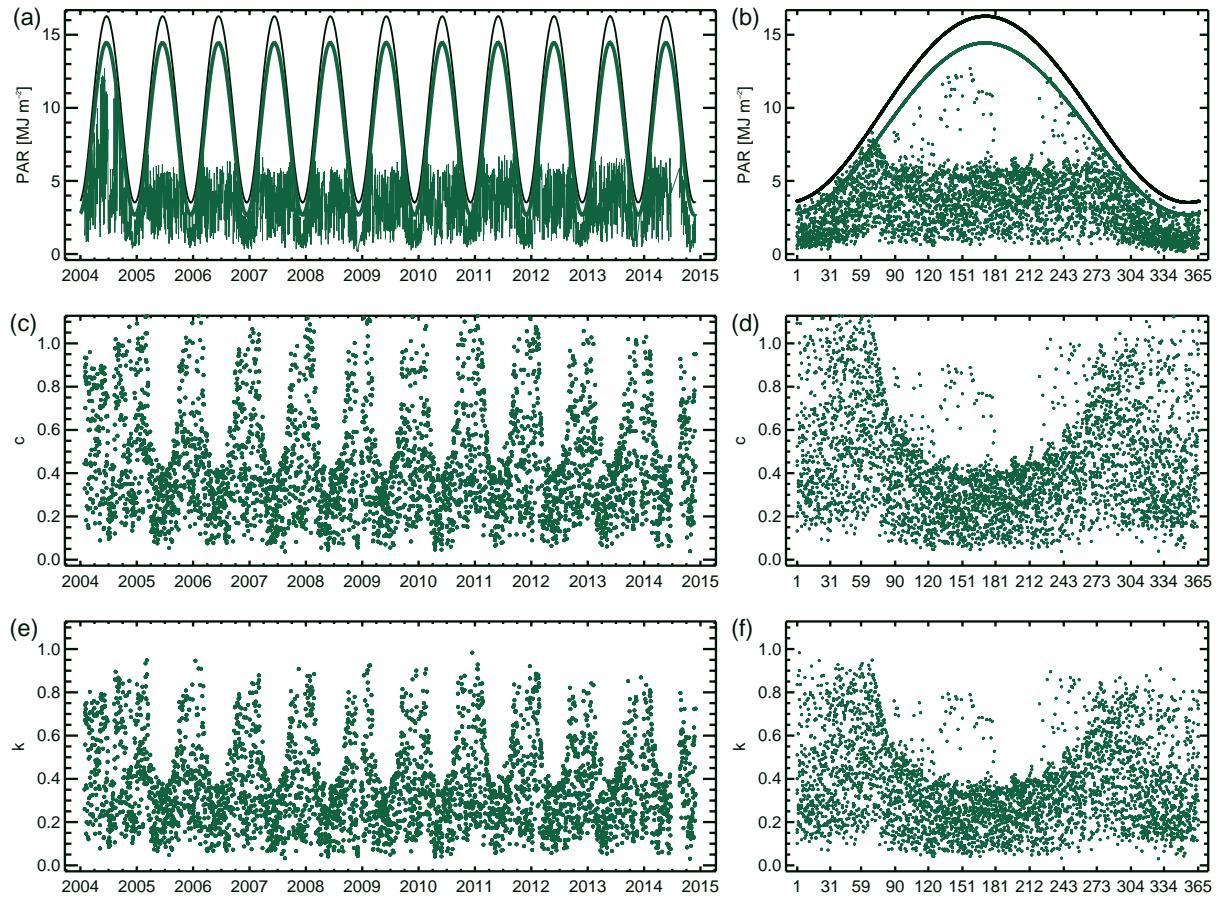


Figure S8. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at CH-Oe2. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

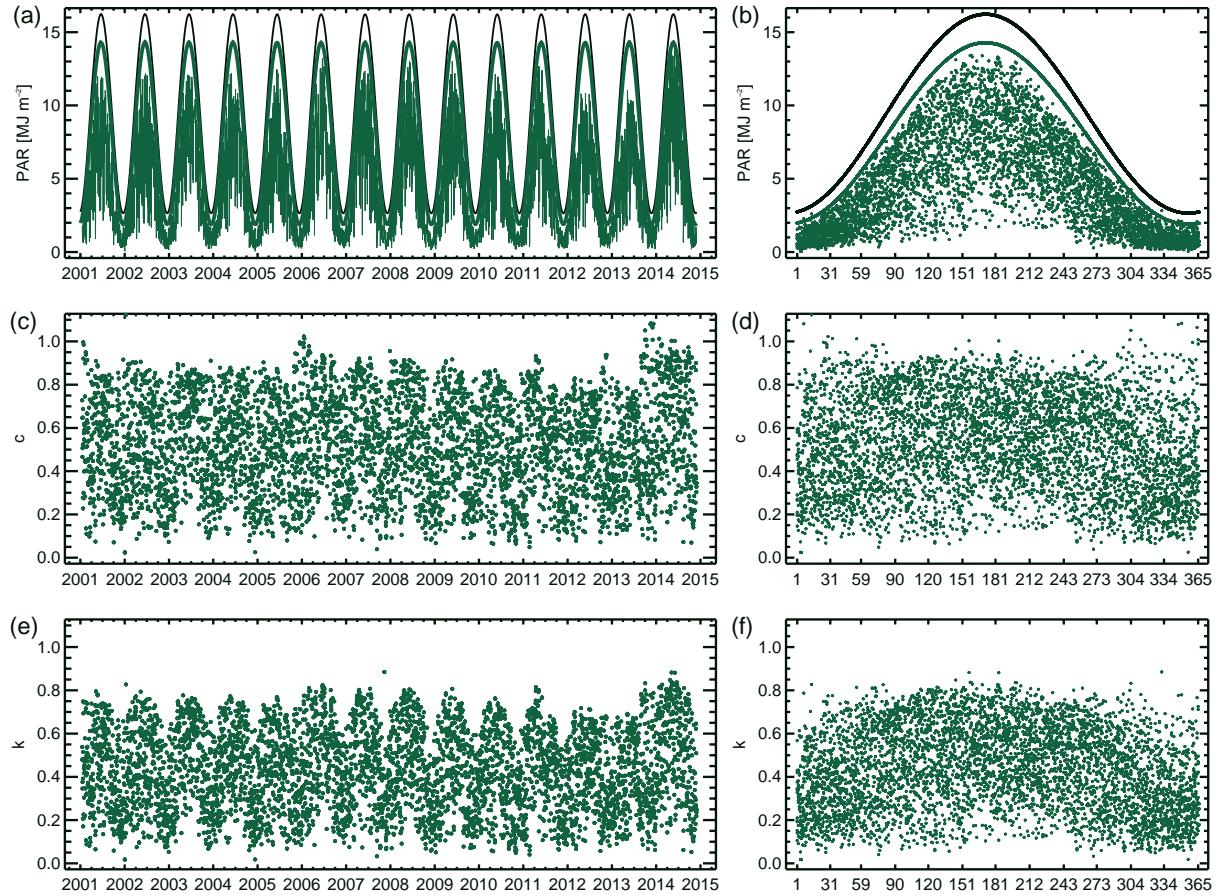


Figure S9. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at DE-Geb. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

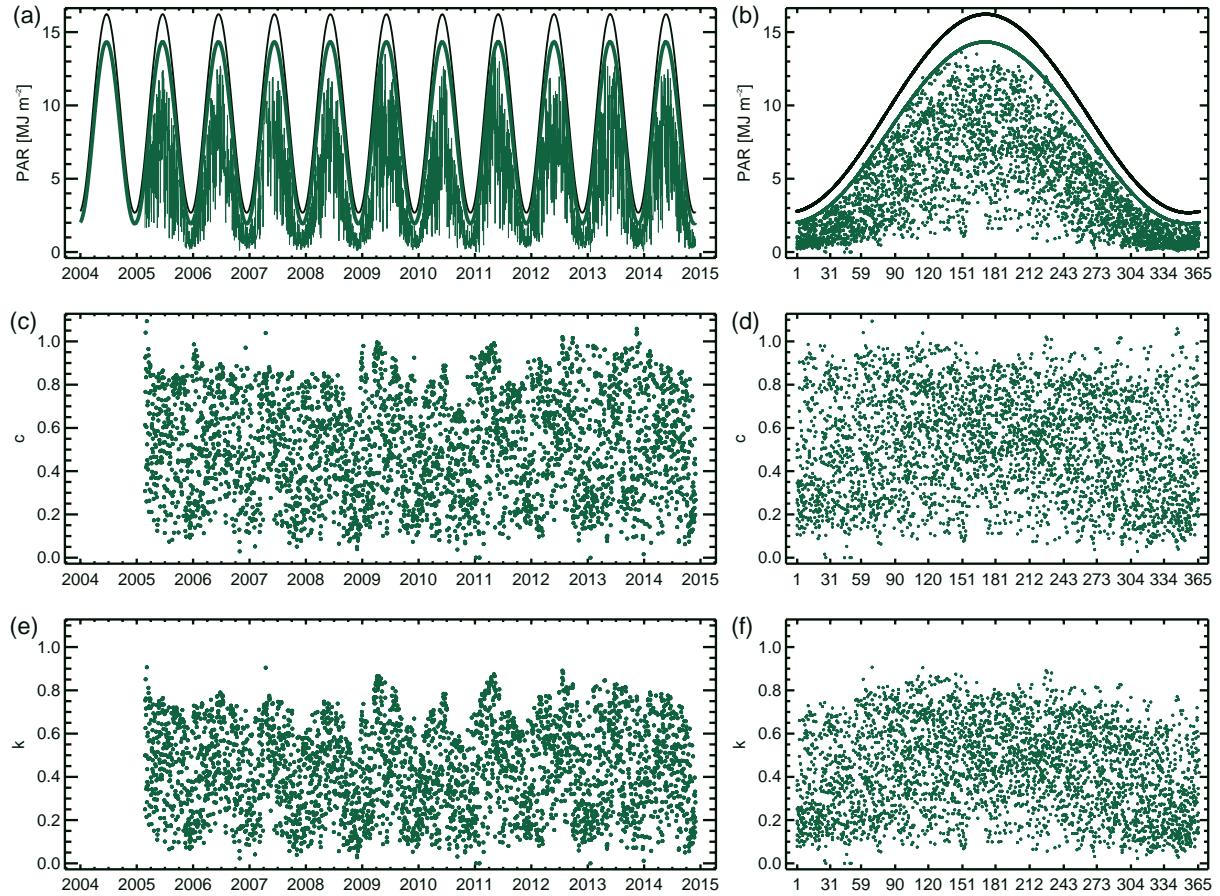


Figure S10. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at DE-Gri. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

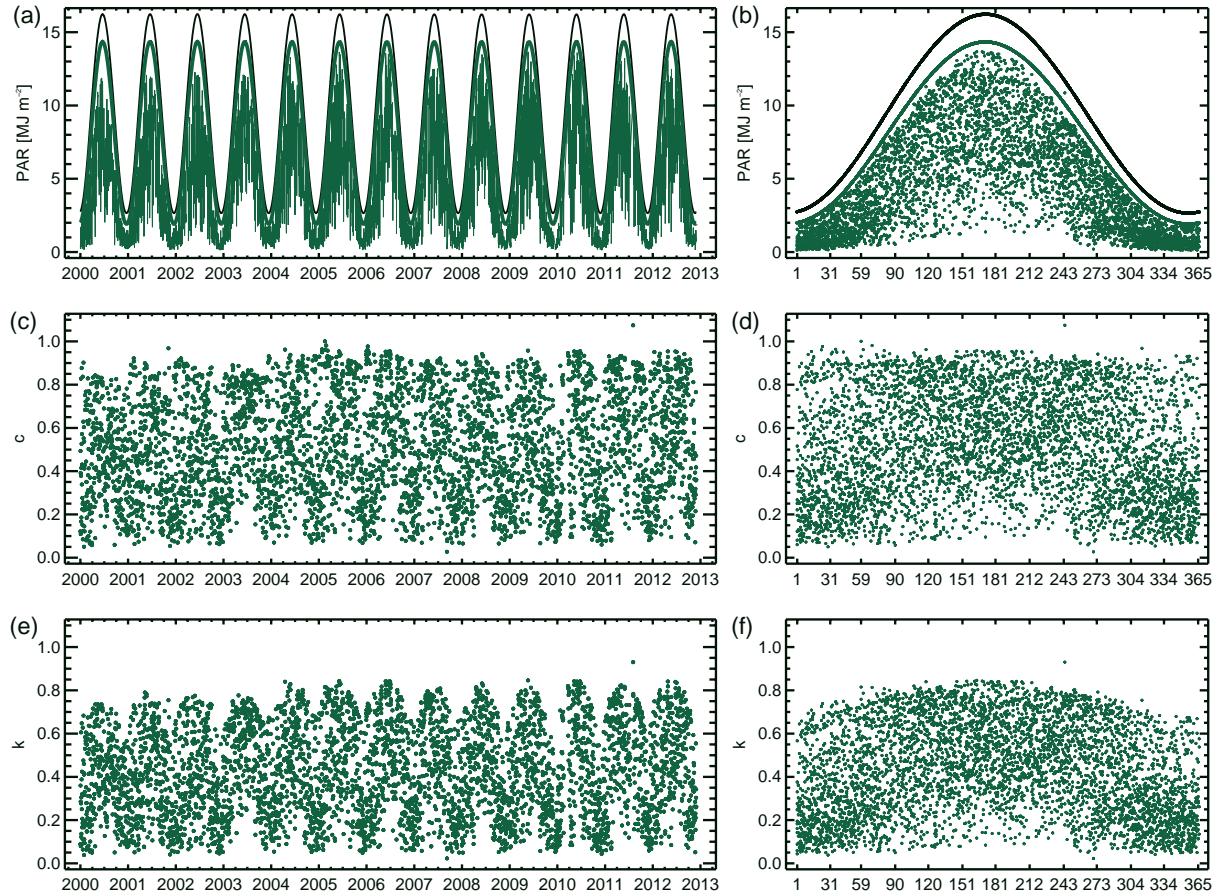


Figure S11. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at DE-Hai. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

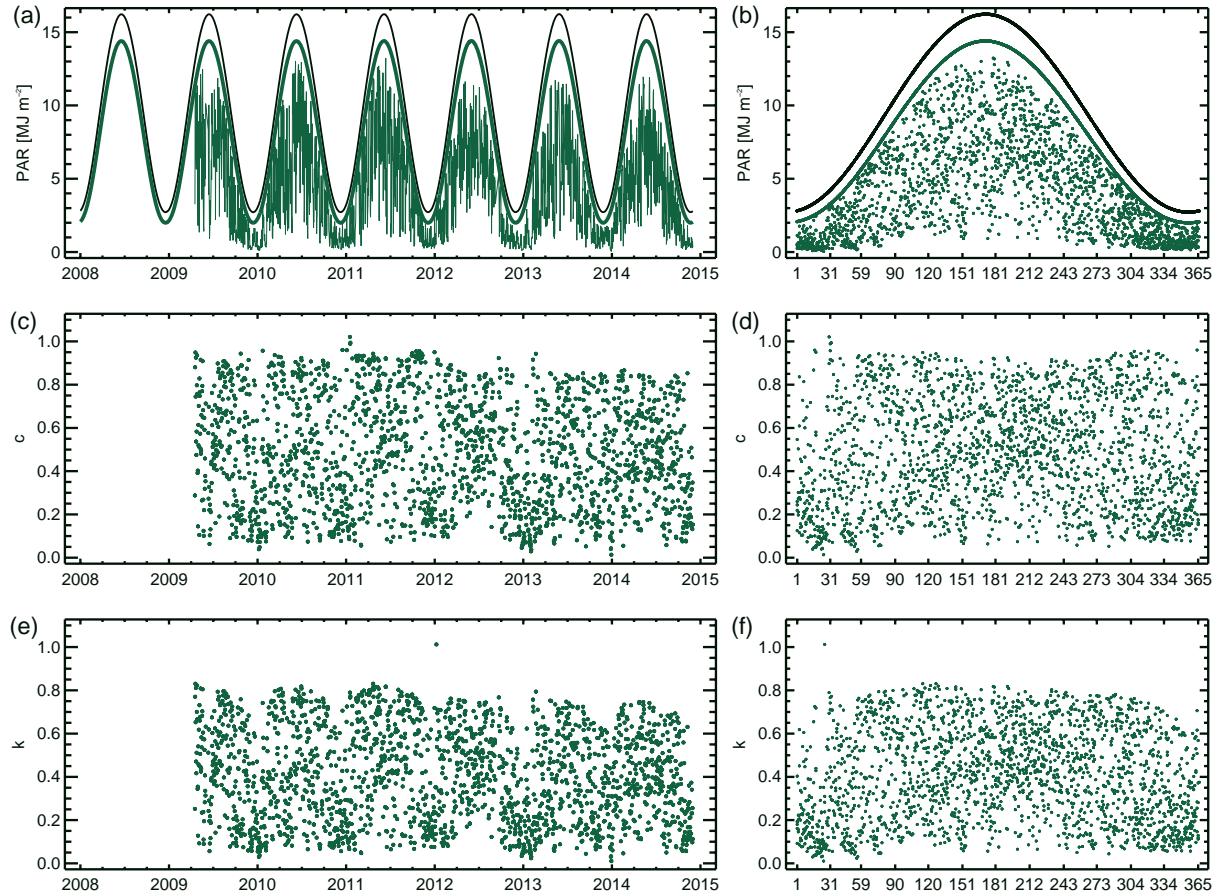


Figure S12. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at DE-Obe. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

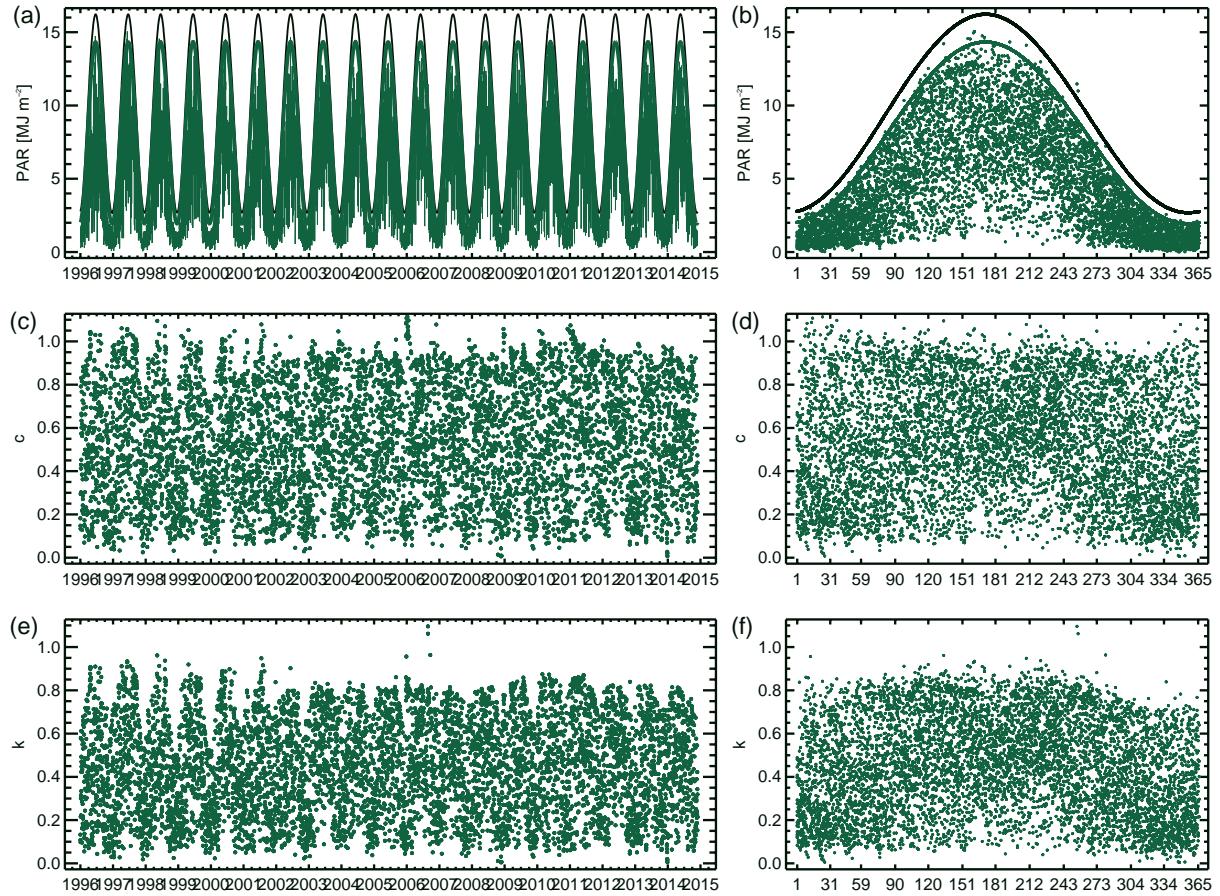


Figure S13. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at DE-Tha. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

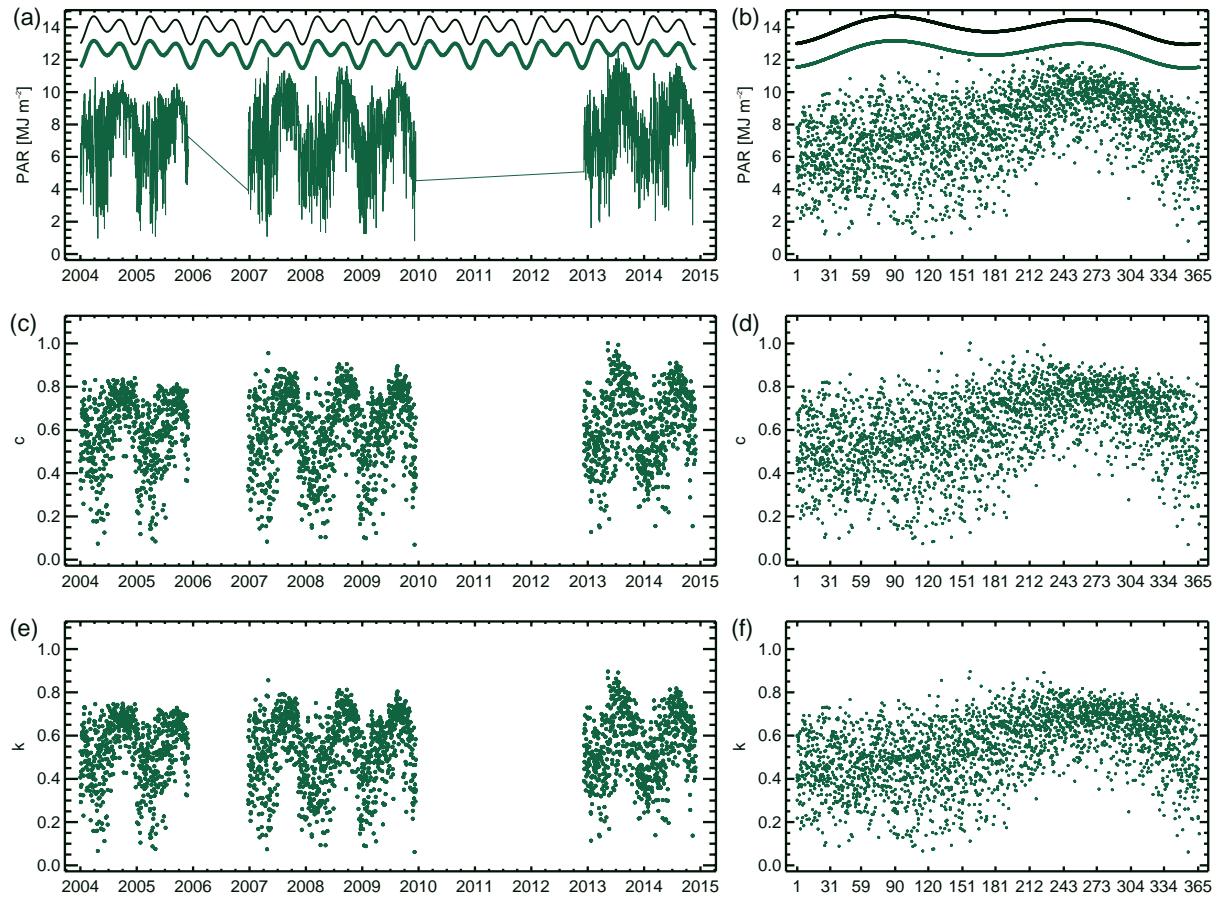


Figure S14. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at GF-Guy. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

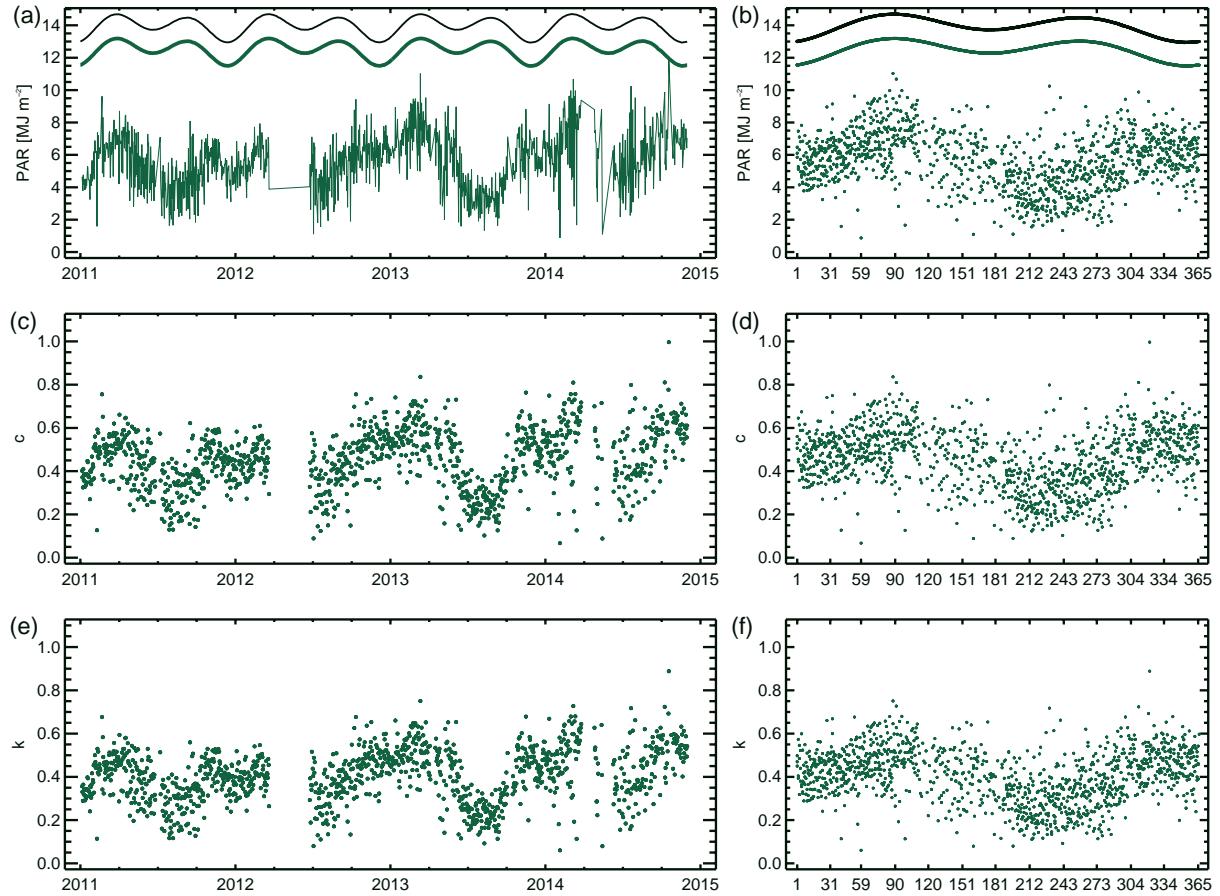


Figure S15. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at GH-Ank. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

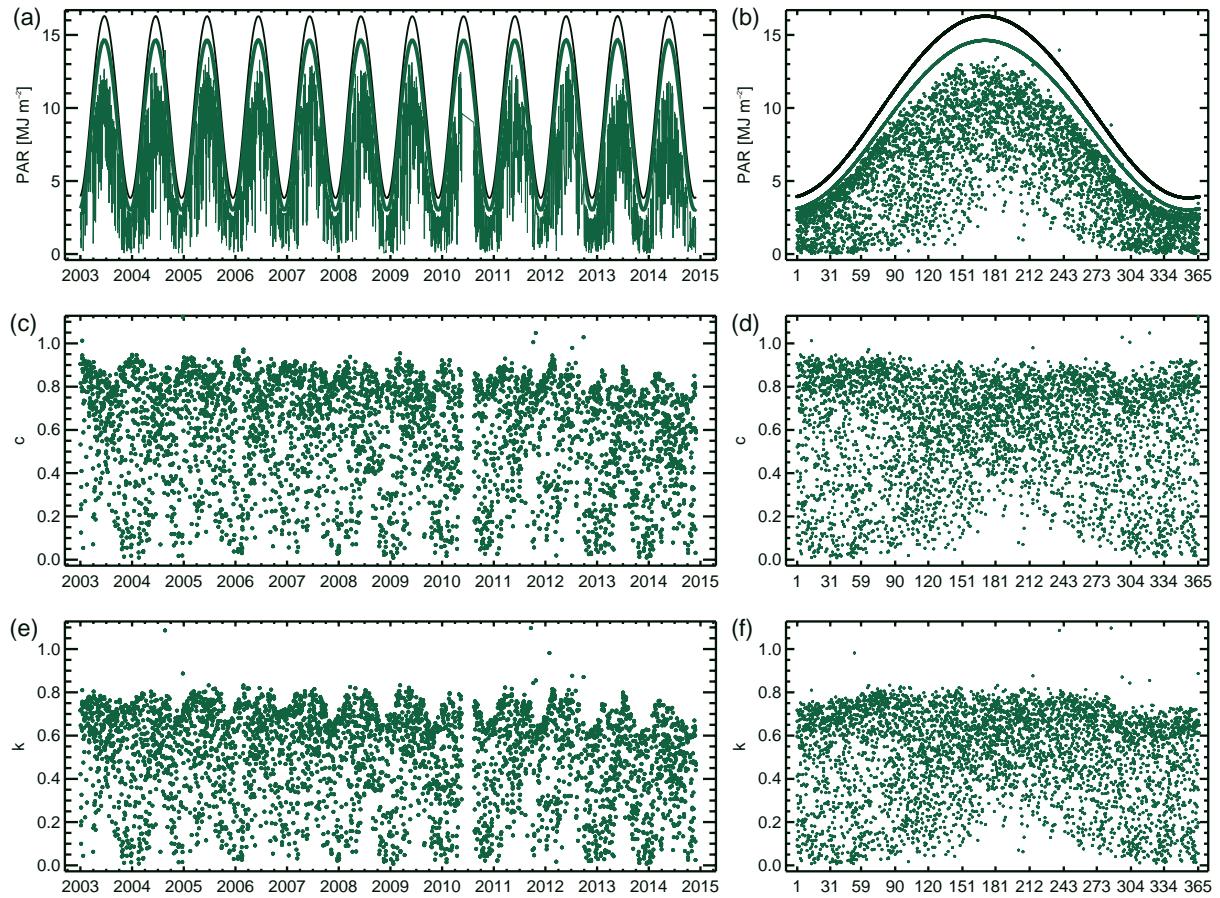


Figure S16. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at IT-Lav. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

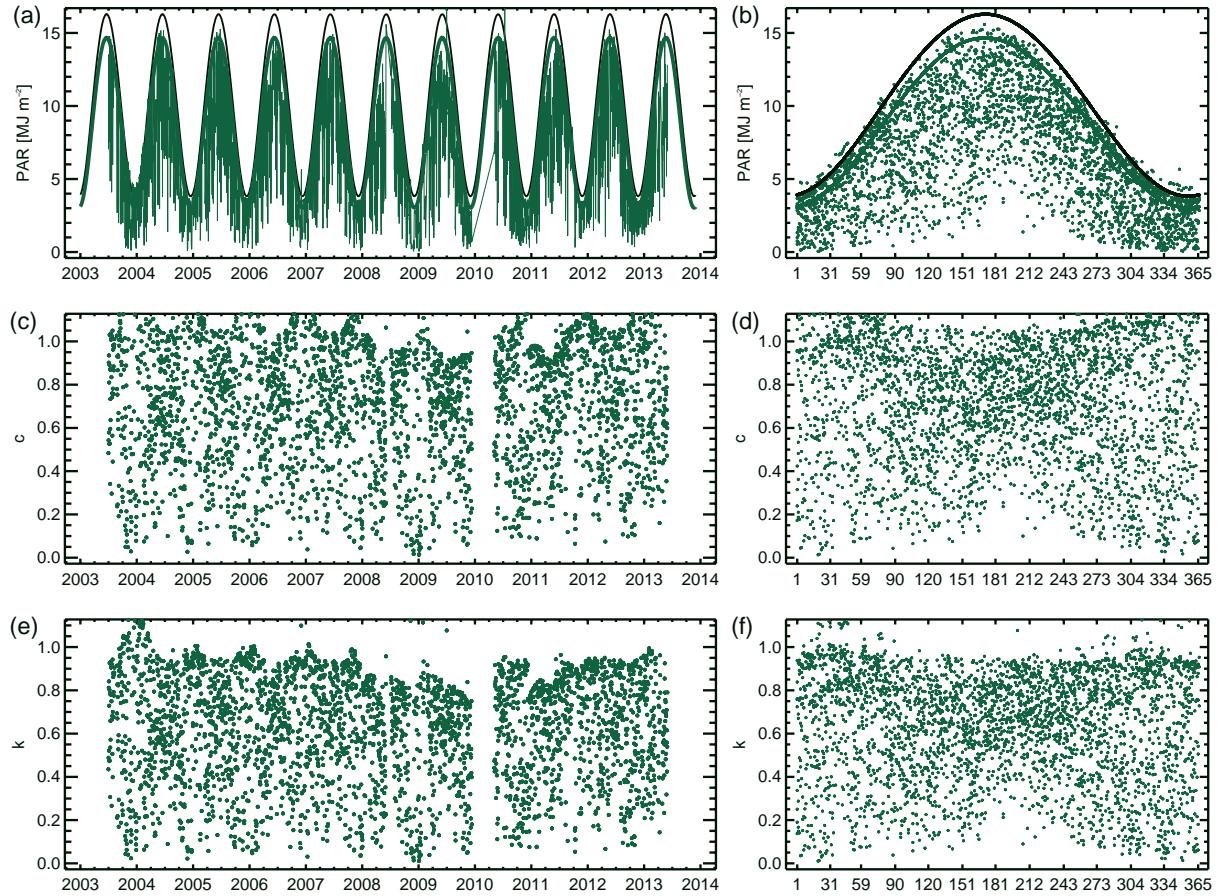


Figure S17. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at IT-MBo. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence..

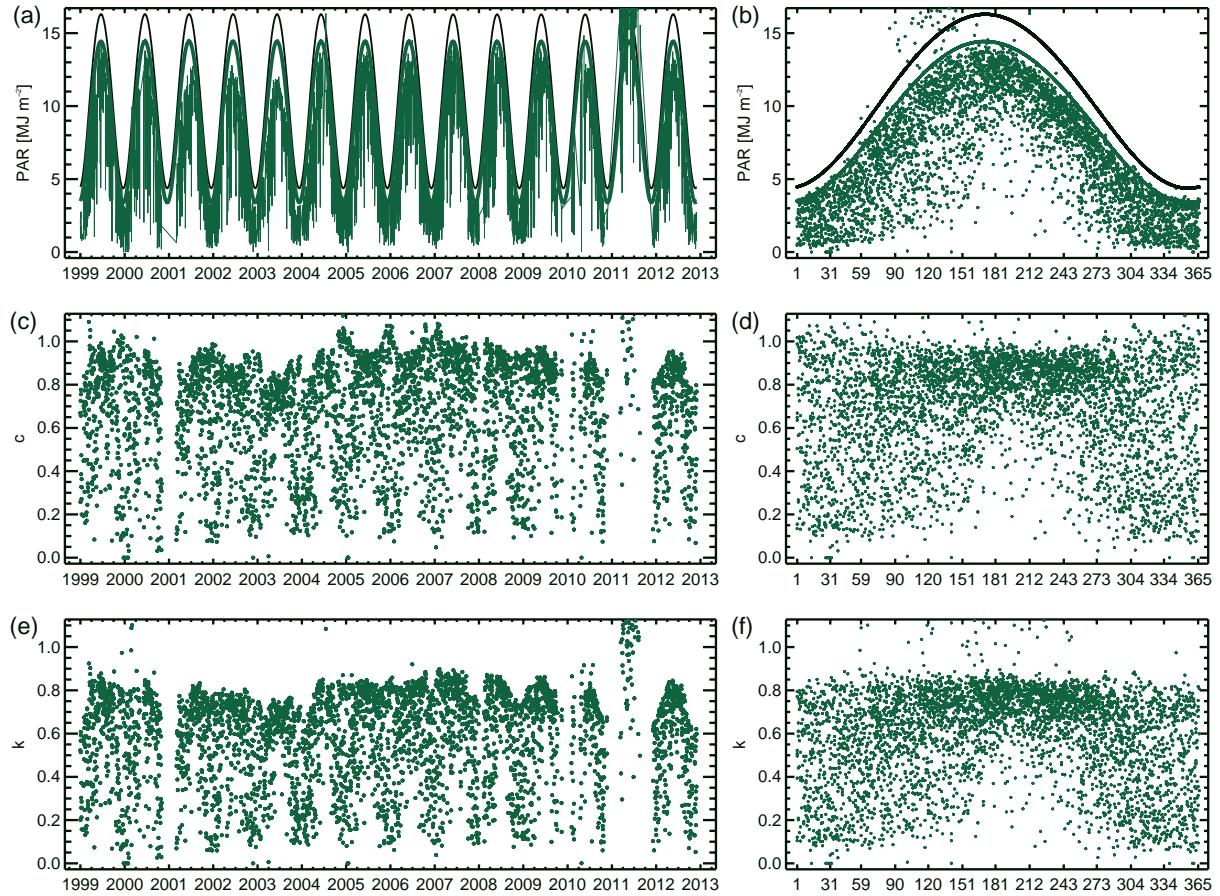


Figure S18. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at IT-SRo. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

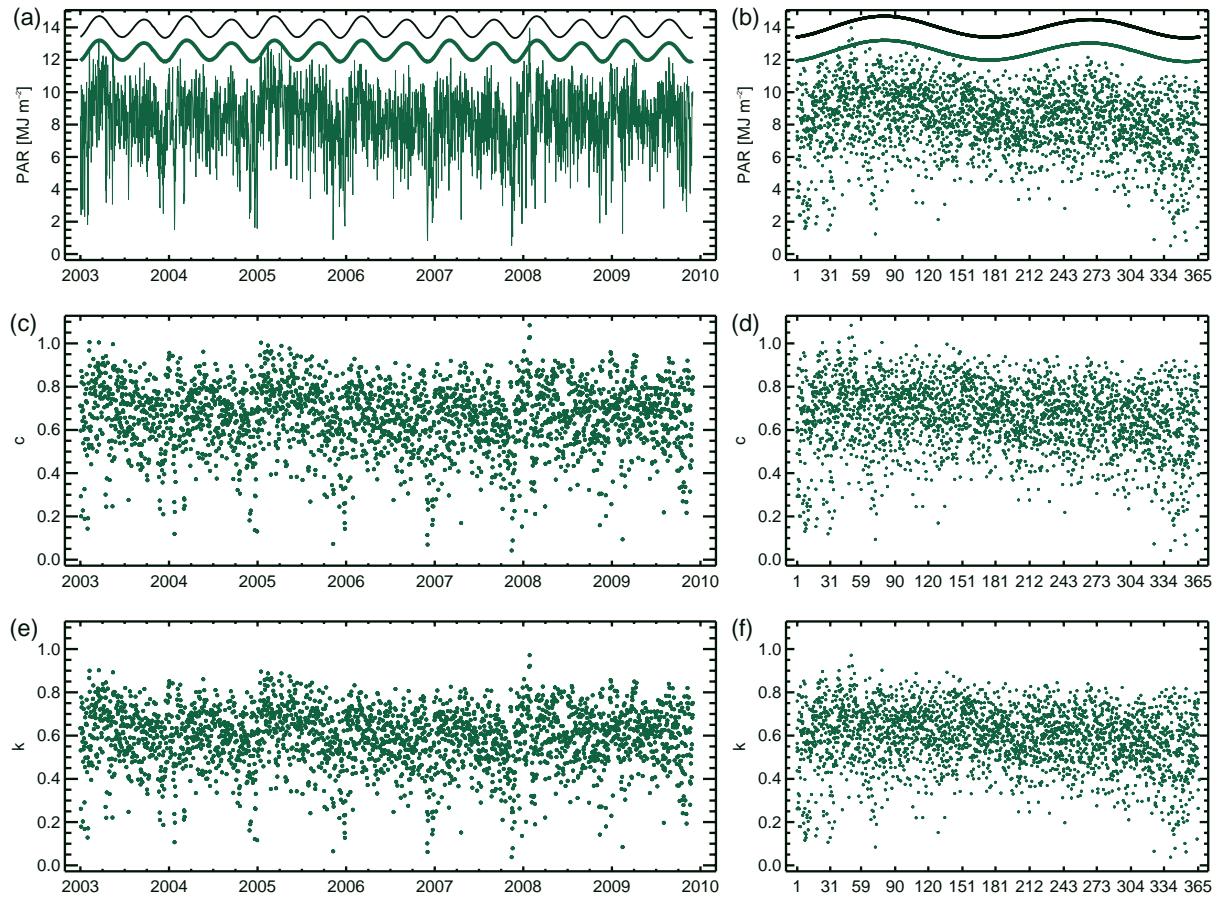


Figure S19. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at MY-PSO. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

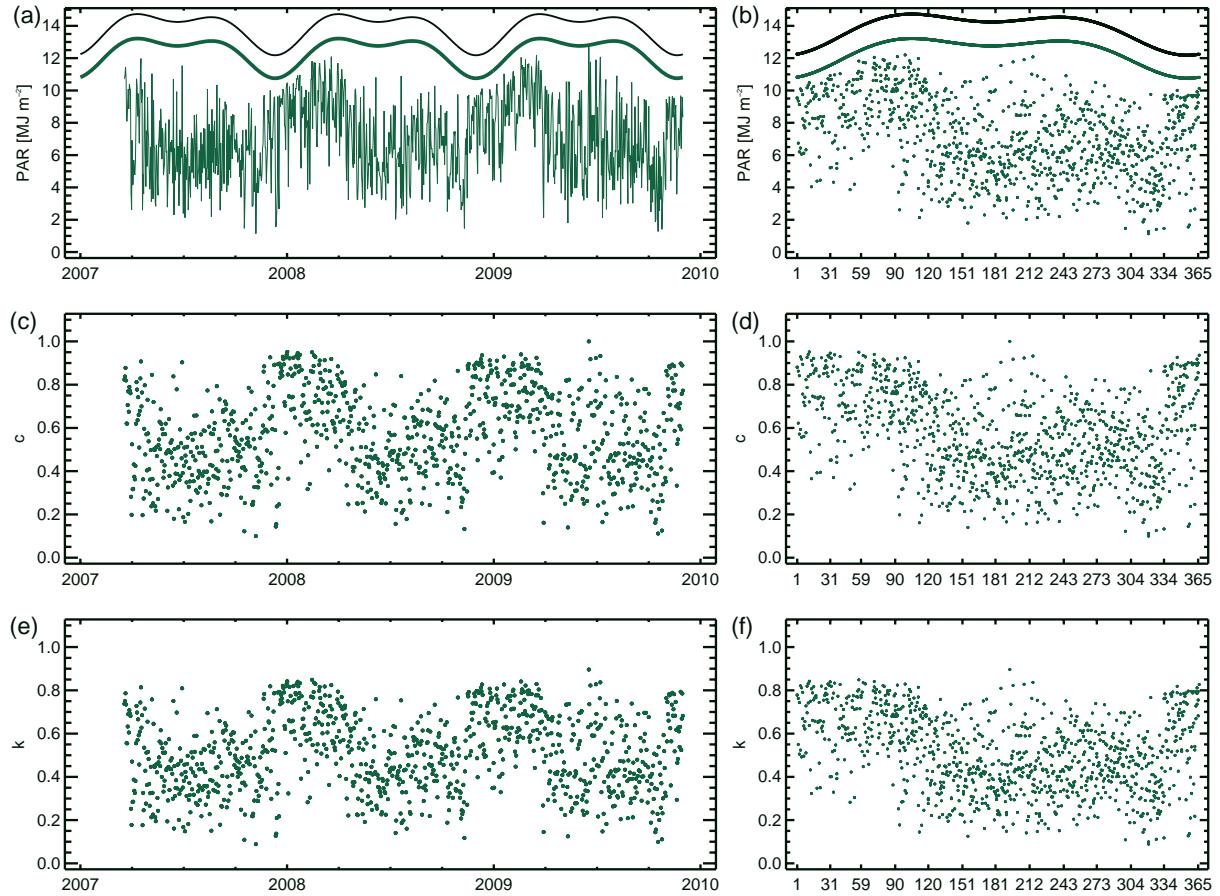


Figure S20. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at PA-SPs. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

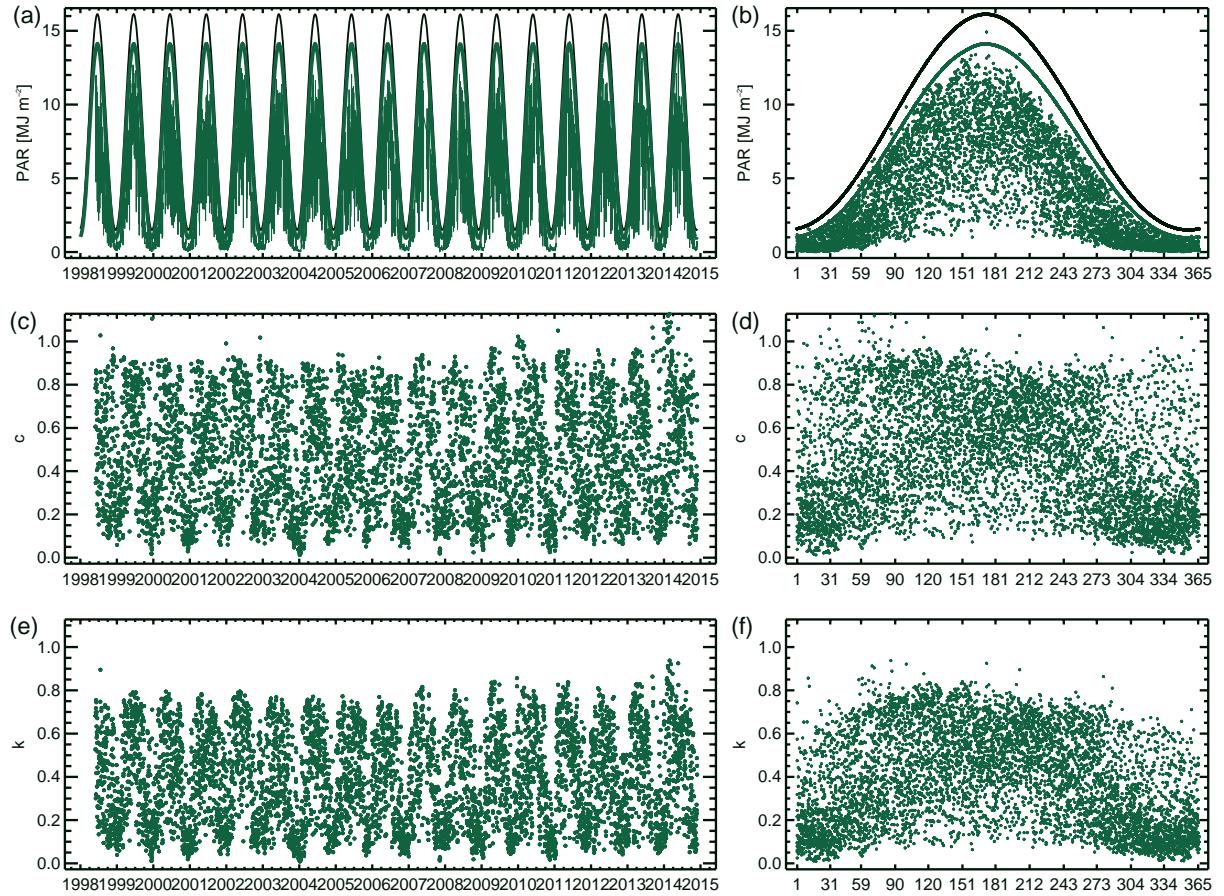


Figure S21. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at RU-Fyo. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

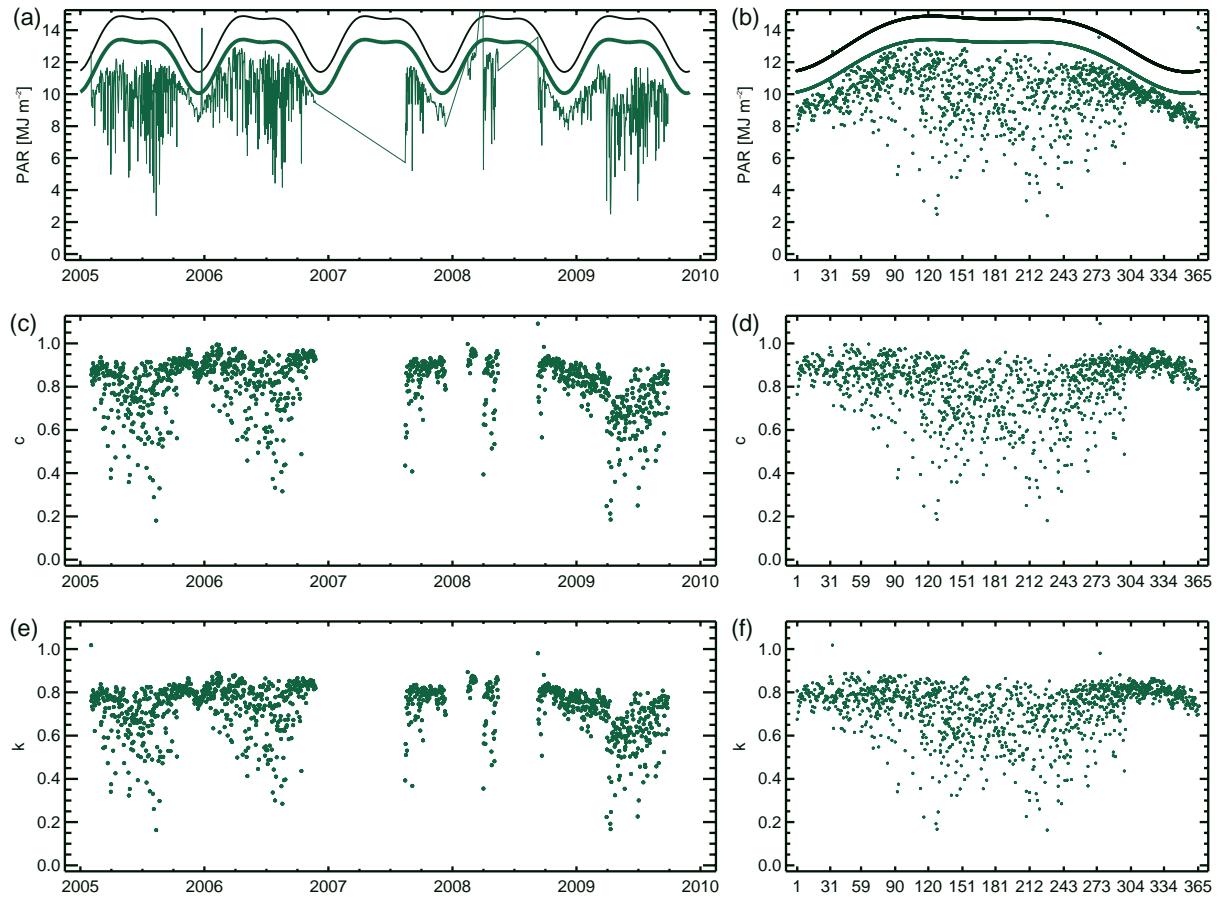


Figure S22. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at SD-Dem. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

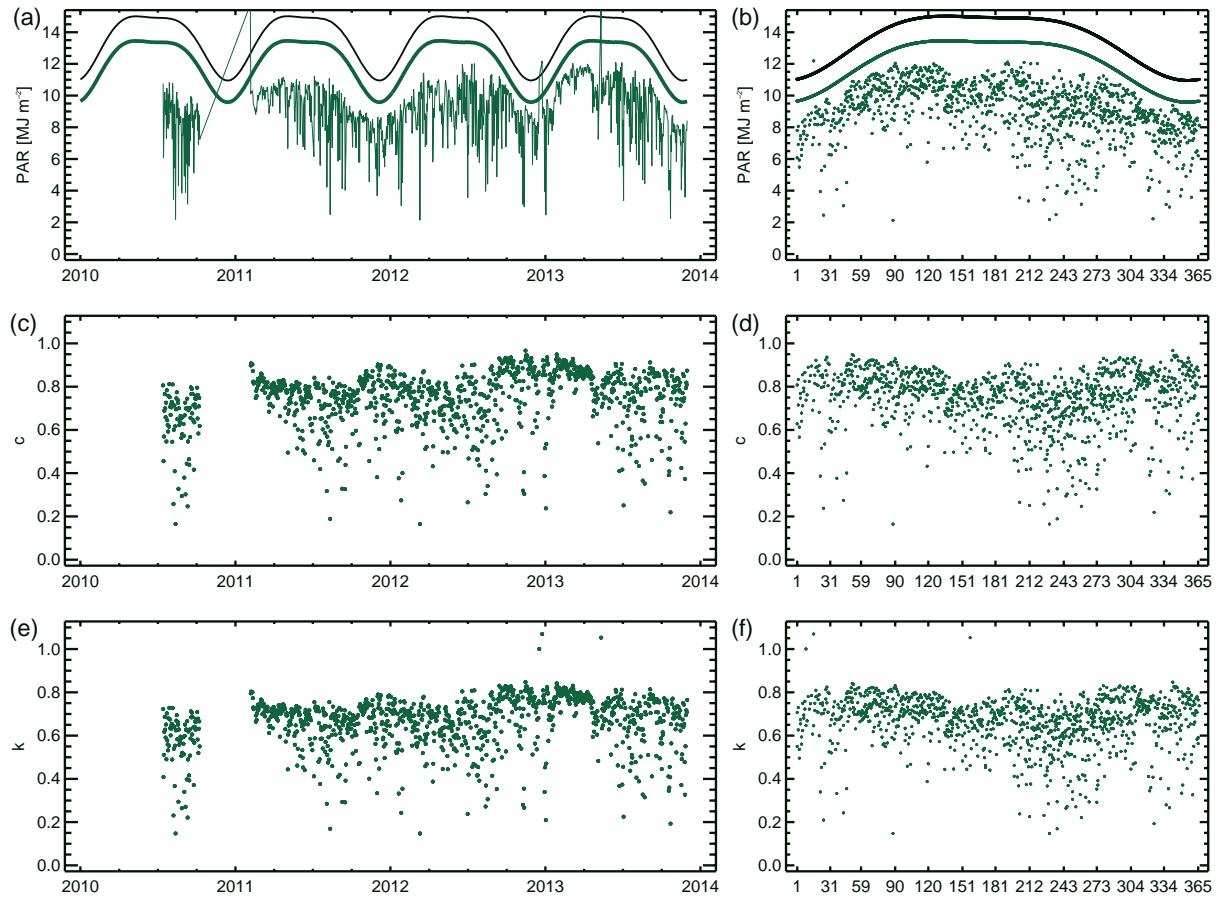


Figure S23. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at SN-Dhr. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

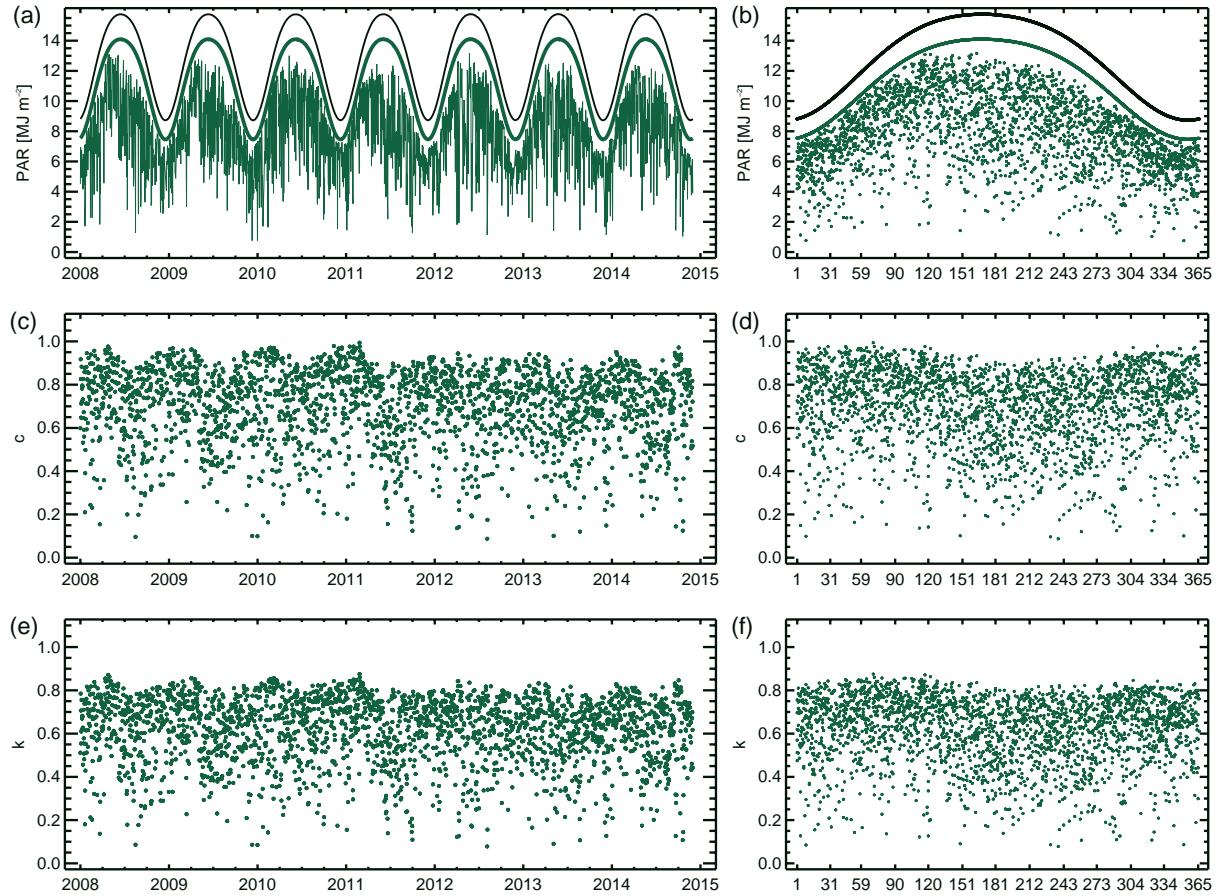


Figure S24. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at US-Esm. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

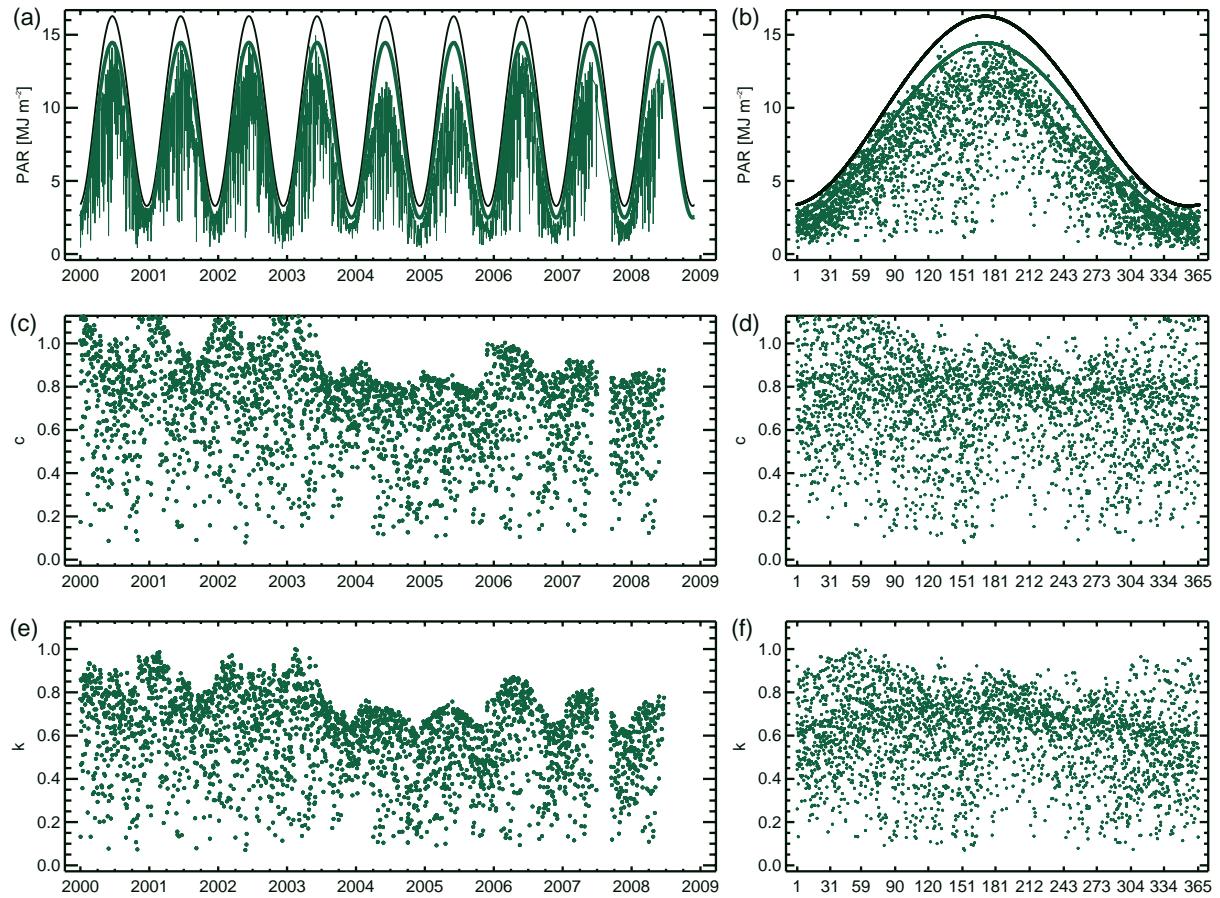


Figure S25. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at US-FPe. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

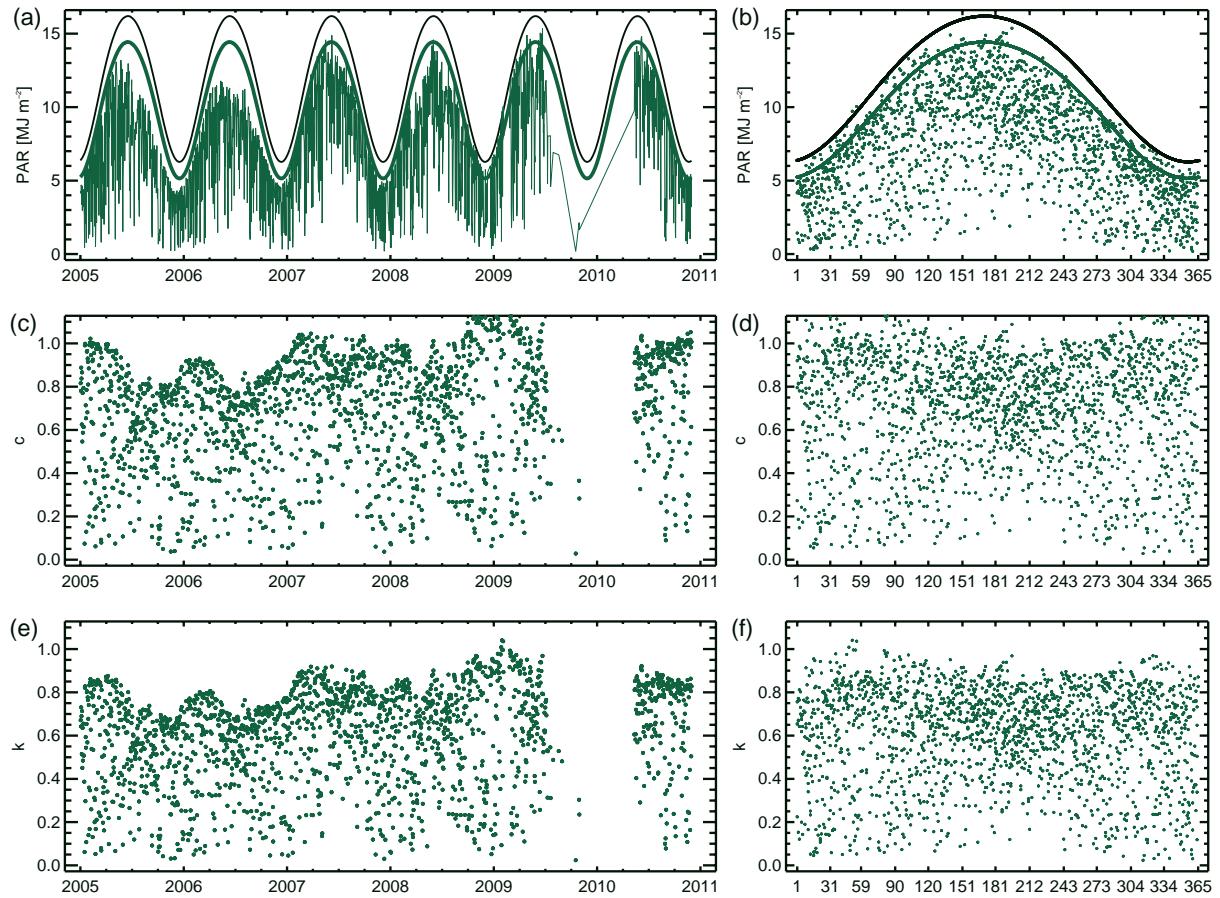


Figure S26. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at US-NC2. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

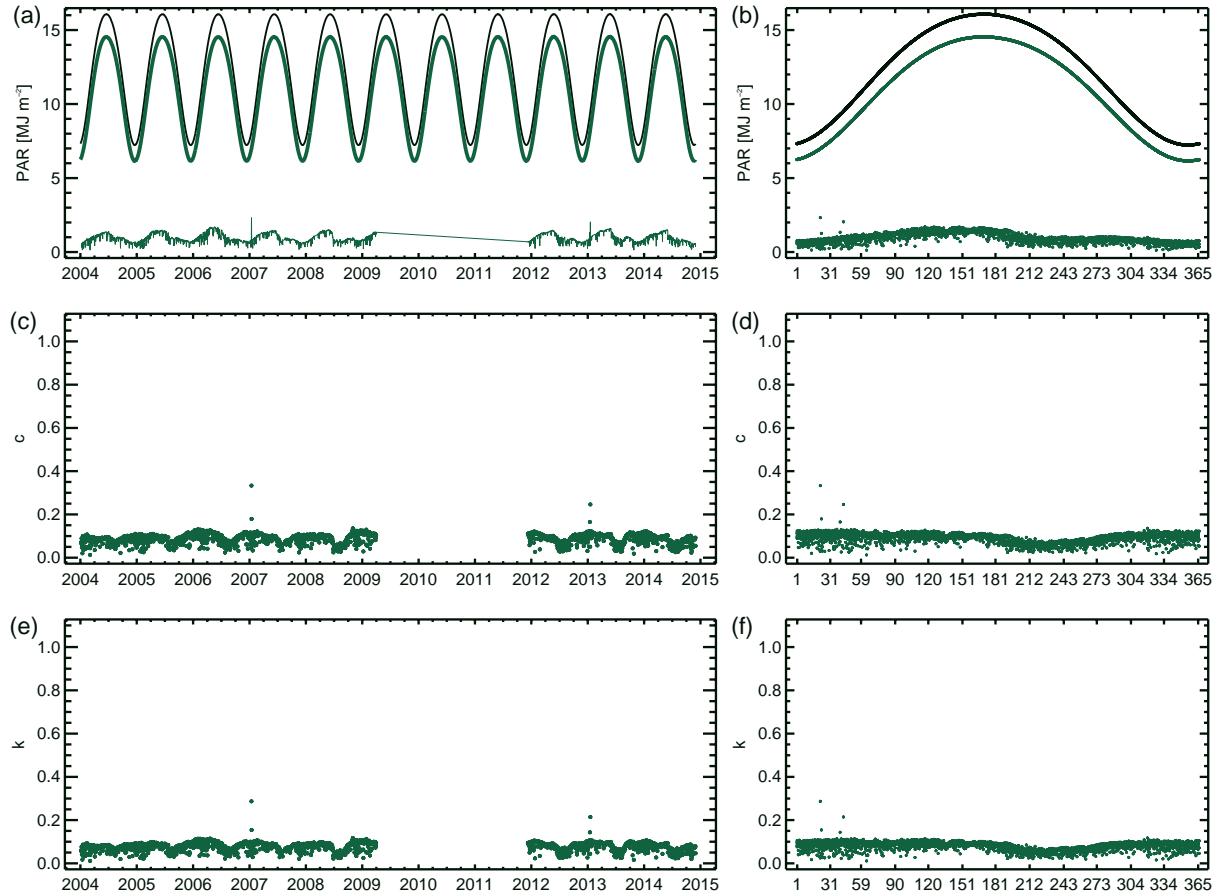


Figure S27. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at US-SRM. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

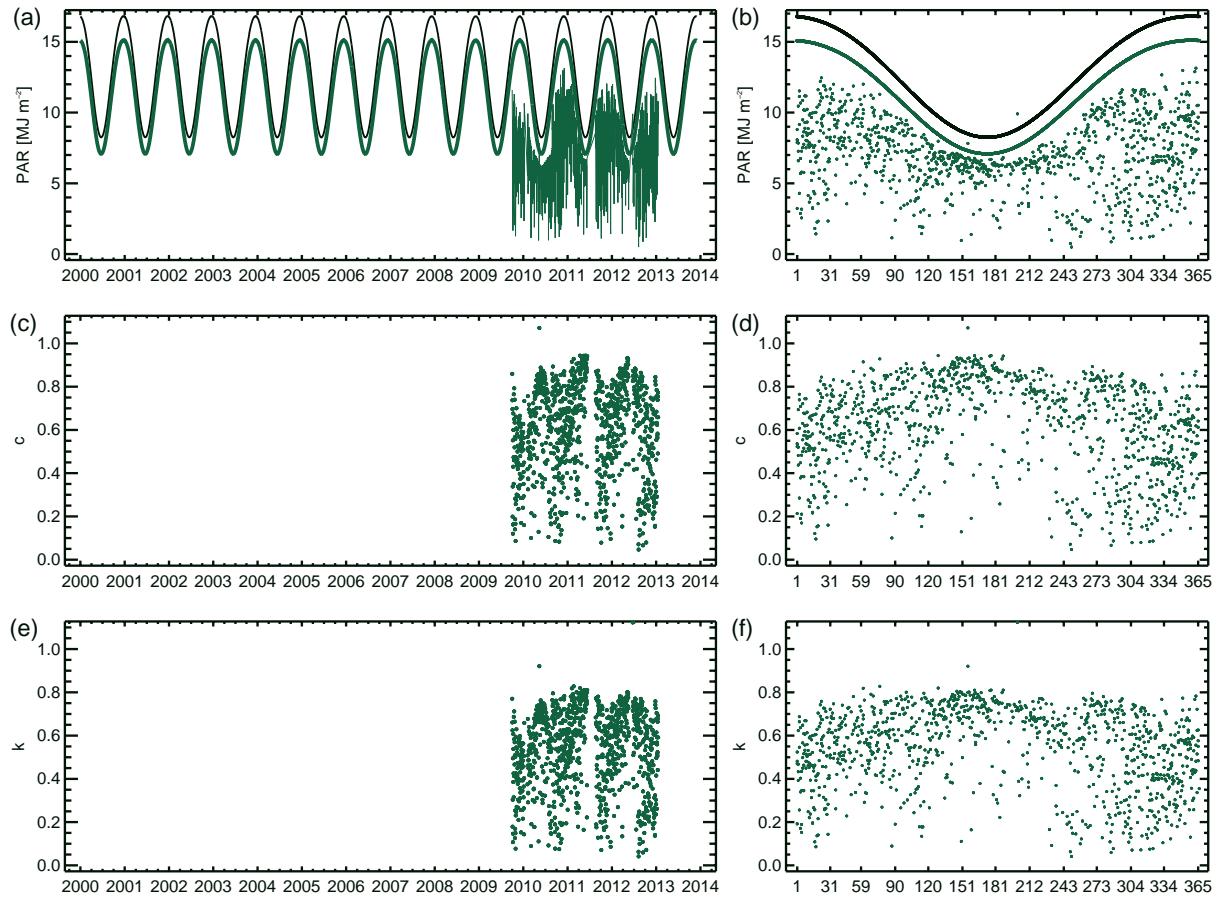


Figure S28. Time series, annual cycle, and autocorrelation function of PAR (a–c), c (d–f), and k (g–i) at ZA-Kru. Solid black and green lines in panels (a) and (b) indicate PAR_0 (no atmosphere), and PAR_{cda} (clean and dry atmosphere), respectively. Thin lines in (a), points in (b) and the ACF in (c) show PAR_{obs} . Dotted lines in the right panel indicates the 95% level of confidence.

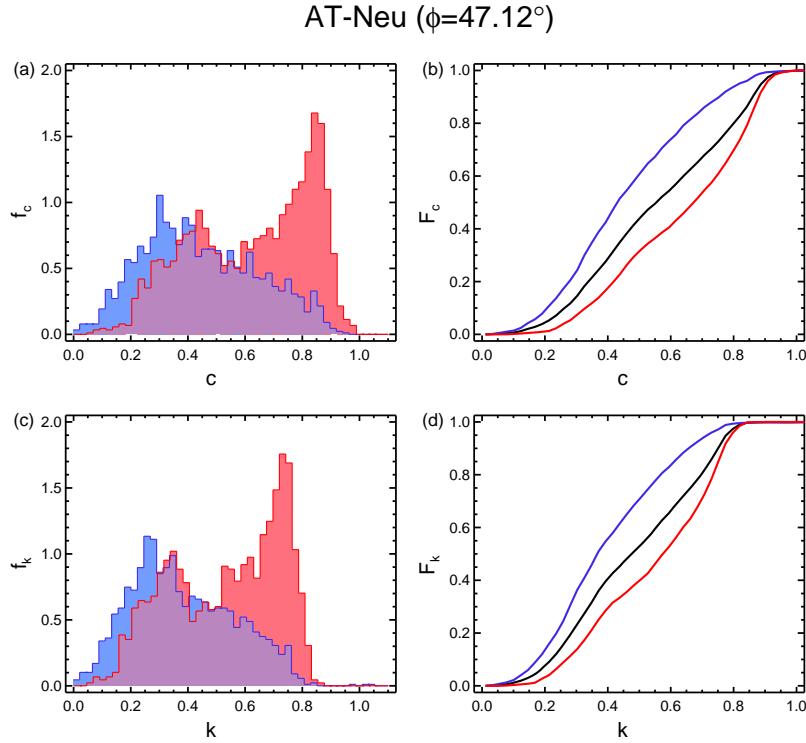


Figure S29. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at AT-Neu.

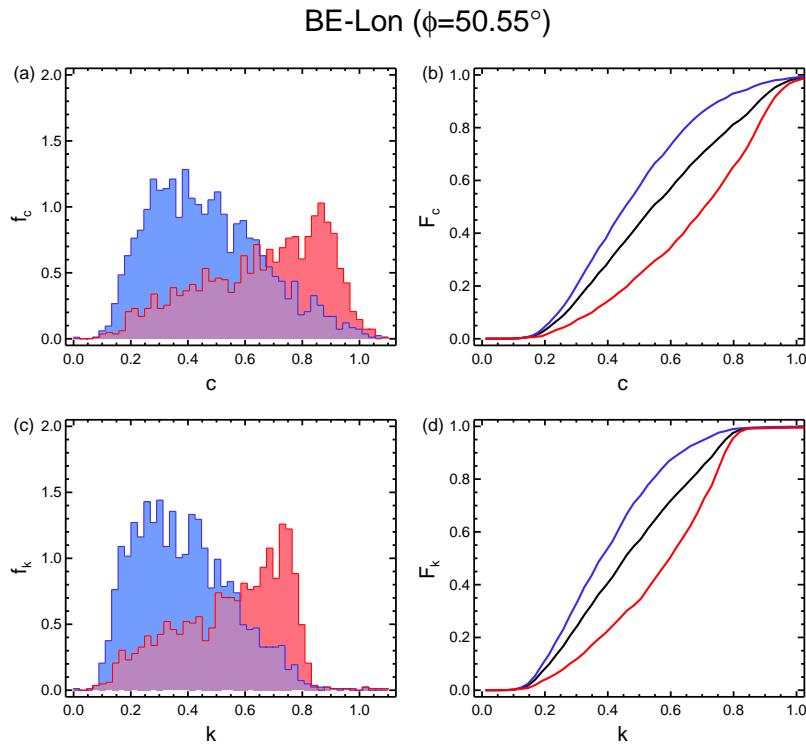


Figure S30. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at BE-Lon.

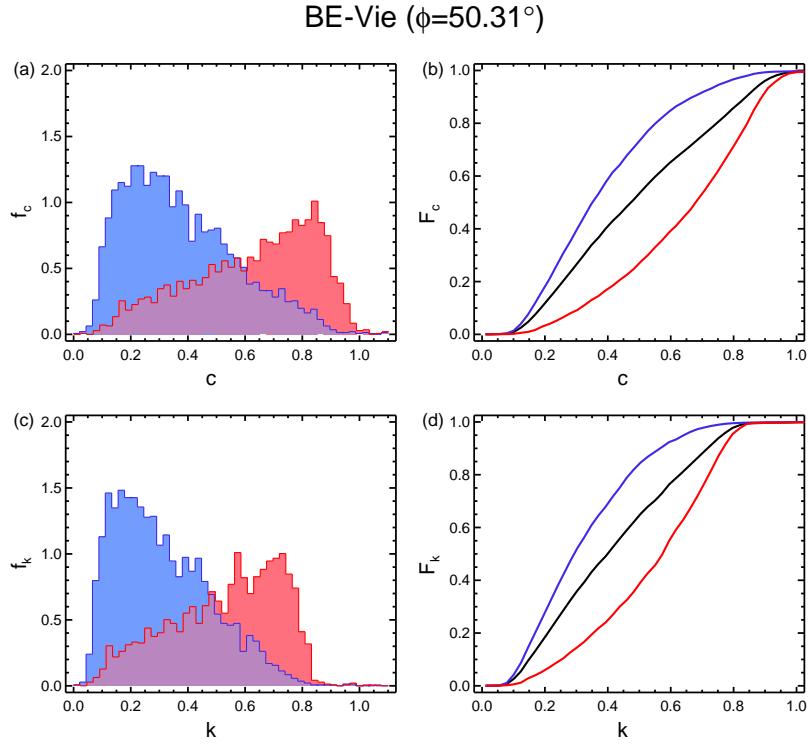


Figure S31. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at BE-Vie.

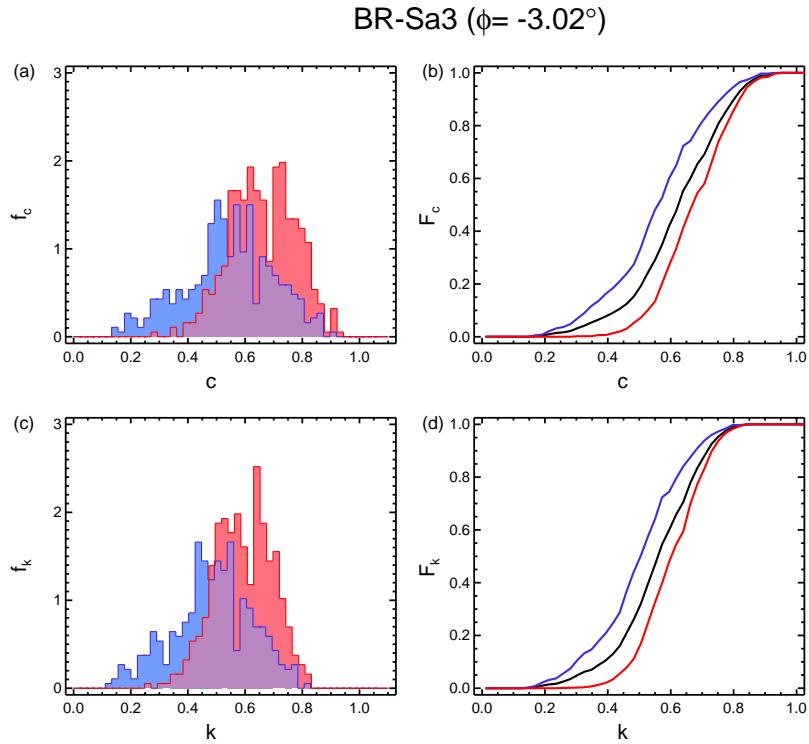


Figure S32. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at BR-Sa3.

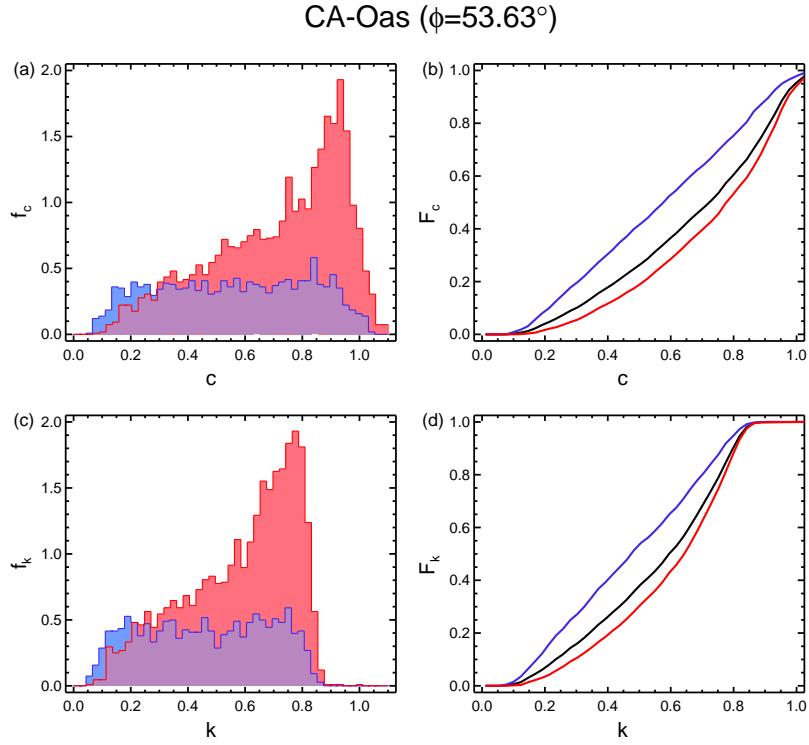


Figure S33. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at CA-Oas.

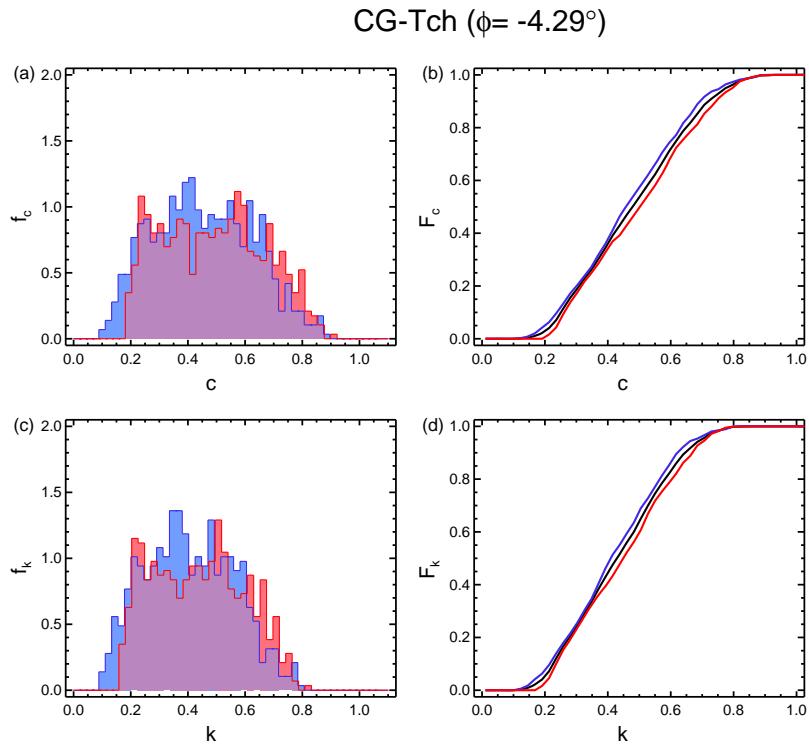


Figure S34. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at CG-Tch.

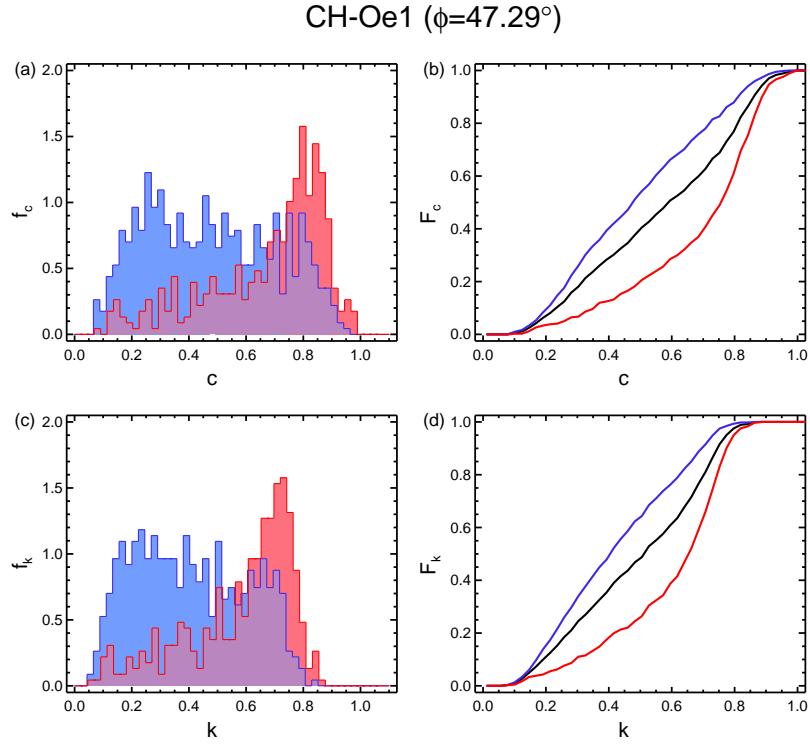


Figure S35. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at CH-Oe1.

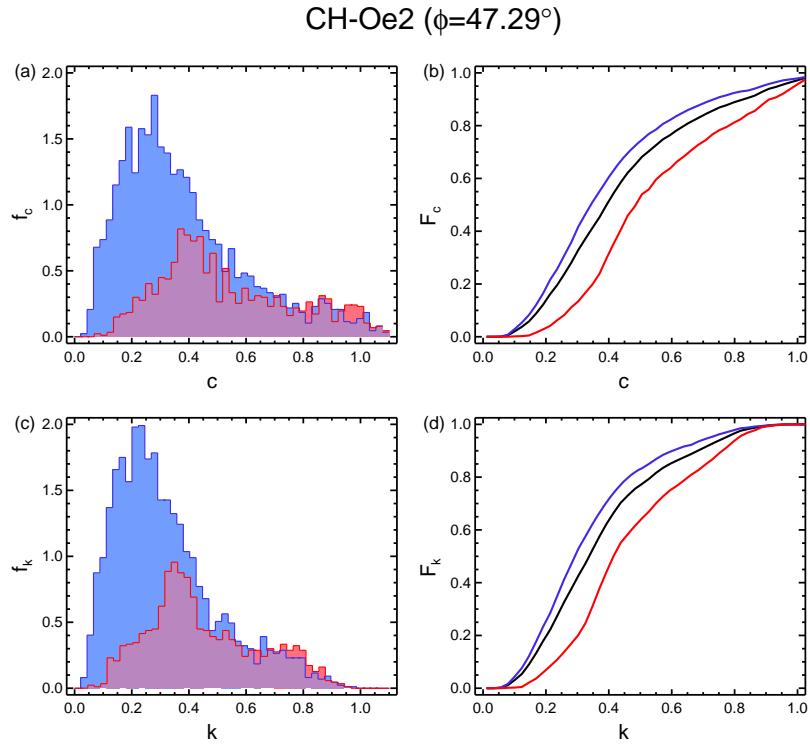


Figure S36. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at CH-Oe2.

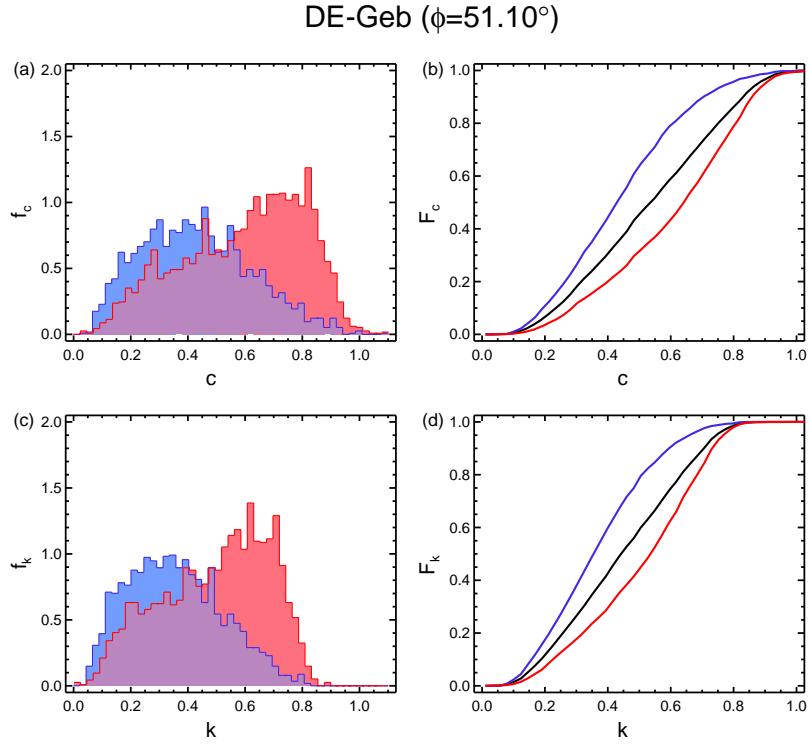


Figure S37. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at DE-Geb.

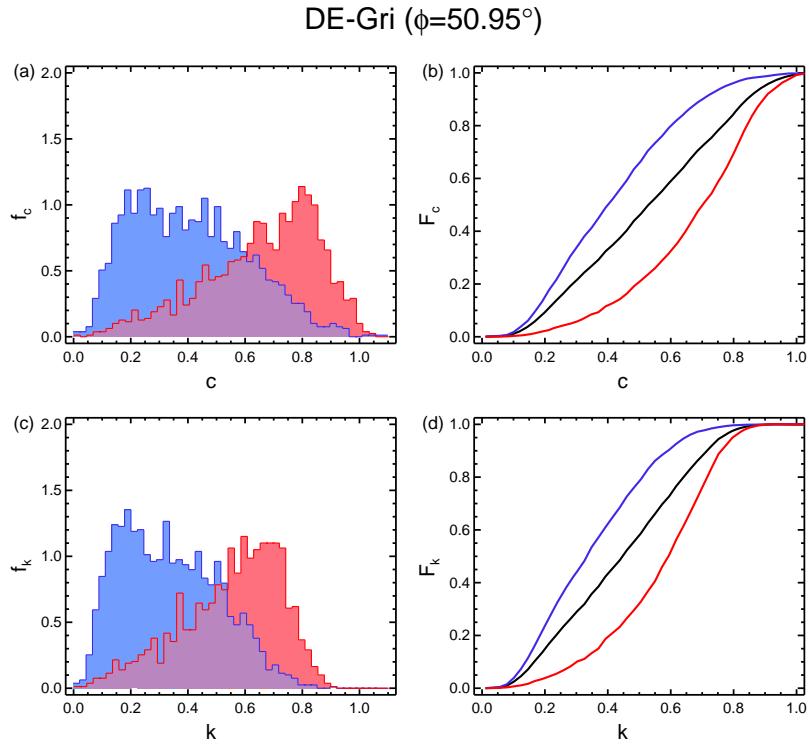


Figure S38. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at DE-Gri.

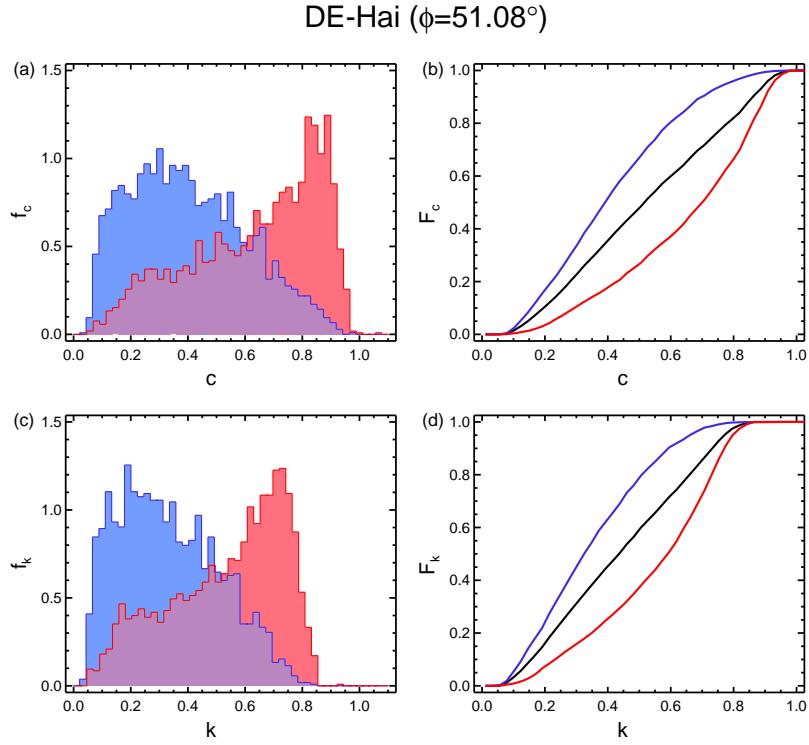


Figure S39. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at DE-Hai.

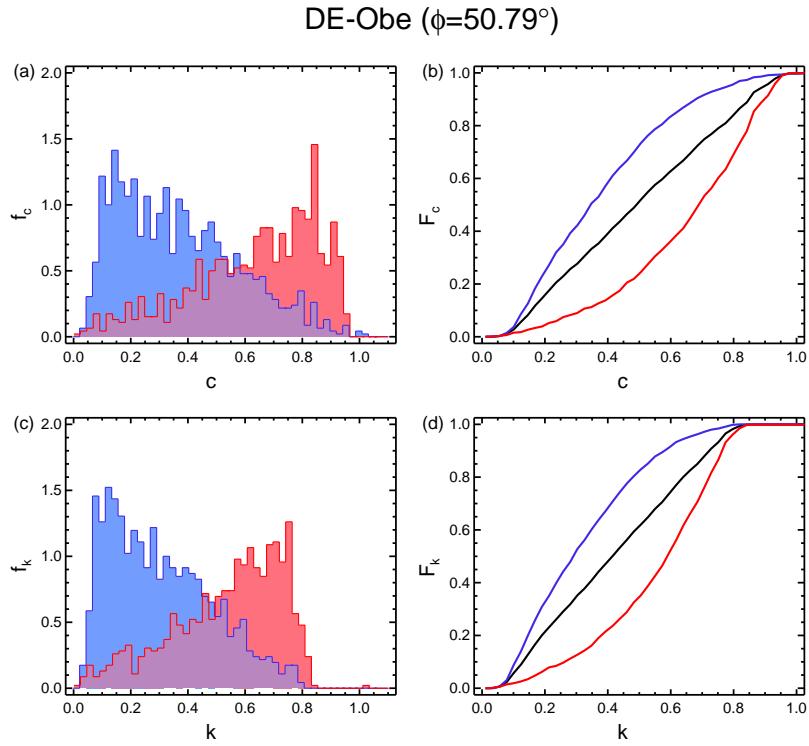


Figure S40. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at DE-Obe.

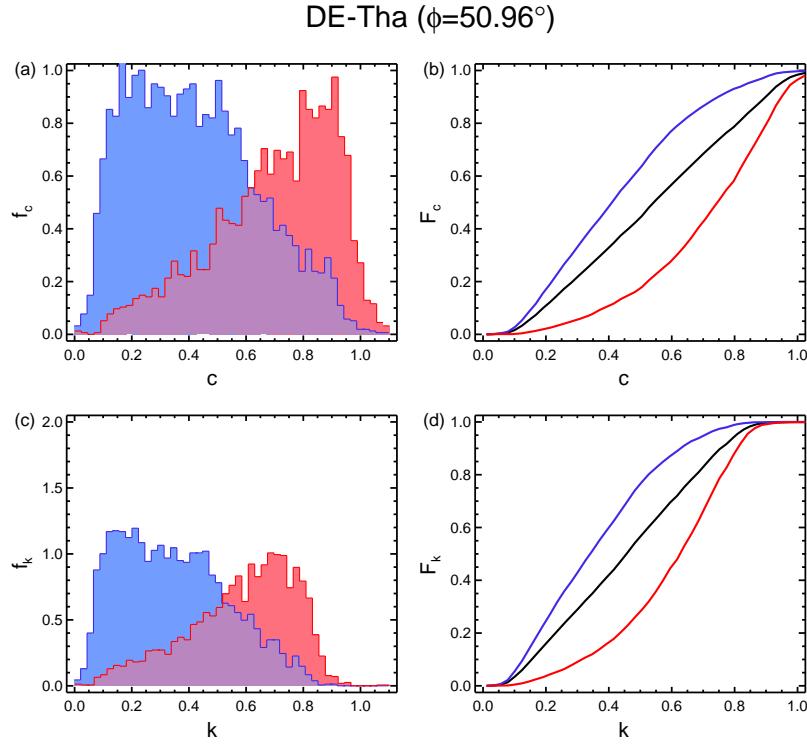


Figure S41. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at DE-Tha.

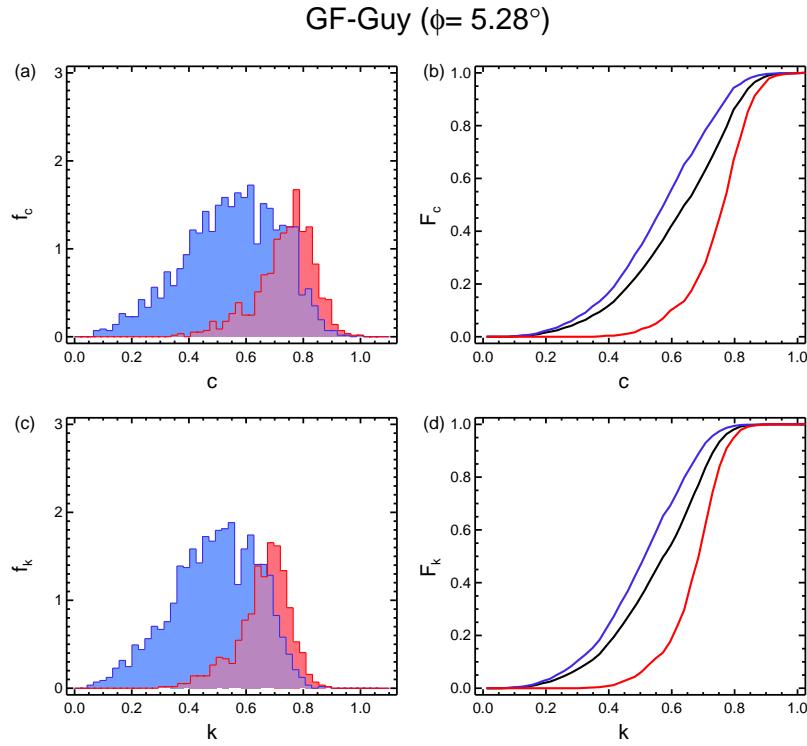


Figure S42. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at GF-Guy.

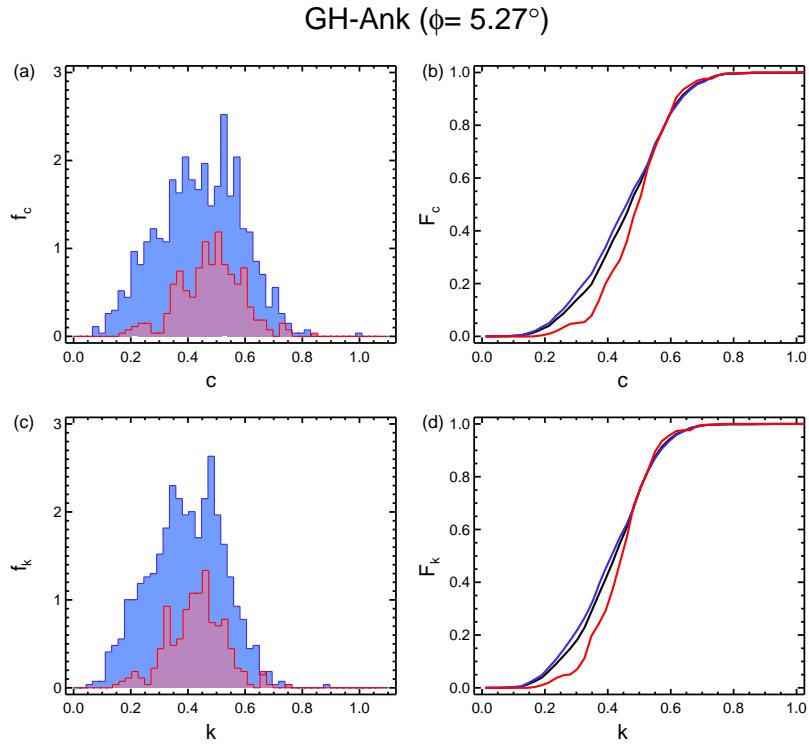


Figure S43. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at GH-Ank.

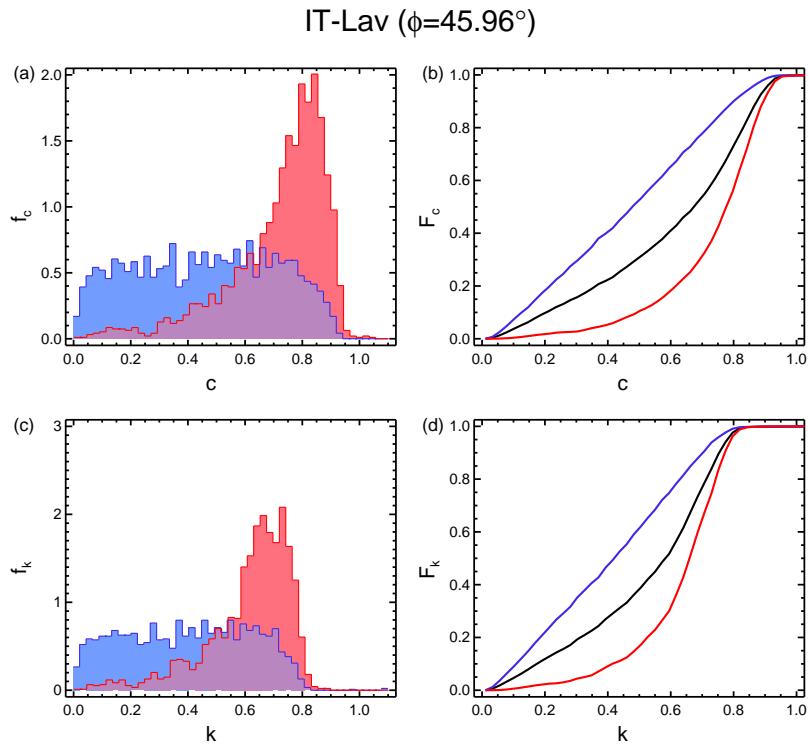


Figure S44. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at IT-Lav.

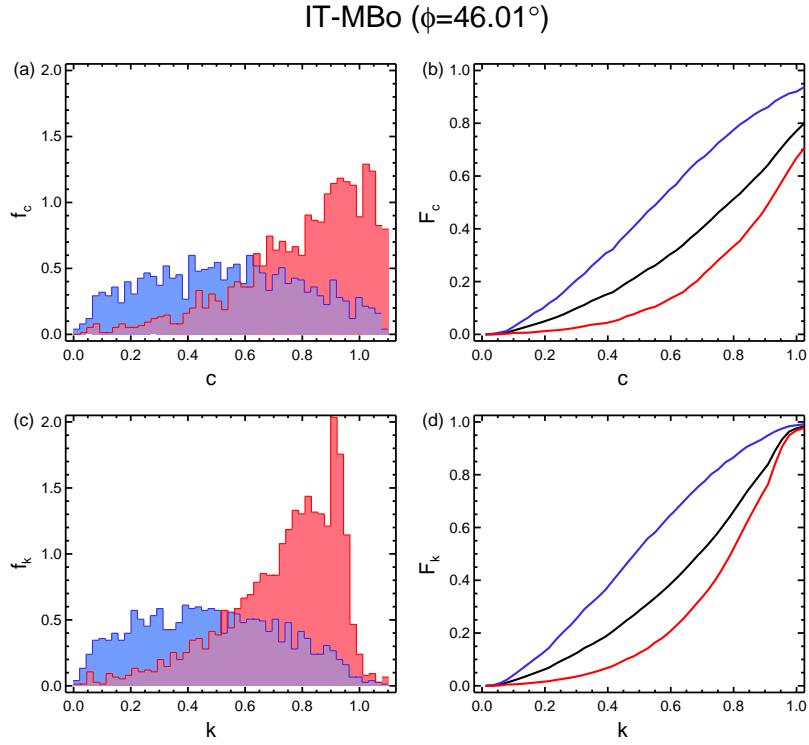


Figure S45. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at IT-MBo.

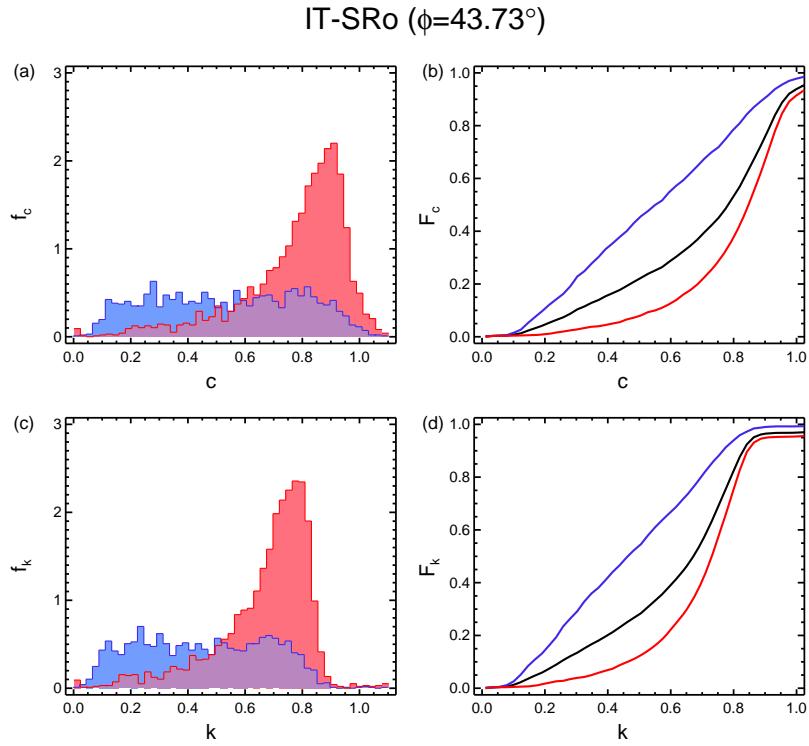


Figure S46. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at IT-SRo.

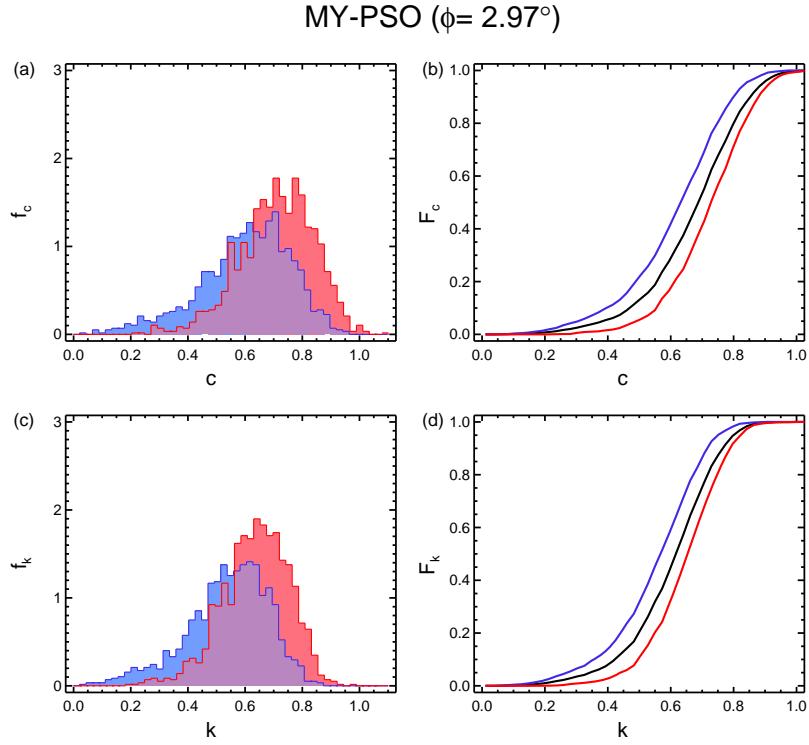


Figure S47. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at MY-PSO.

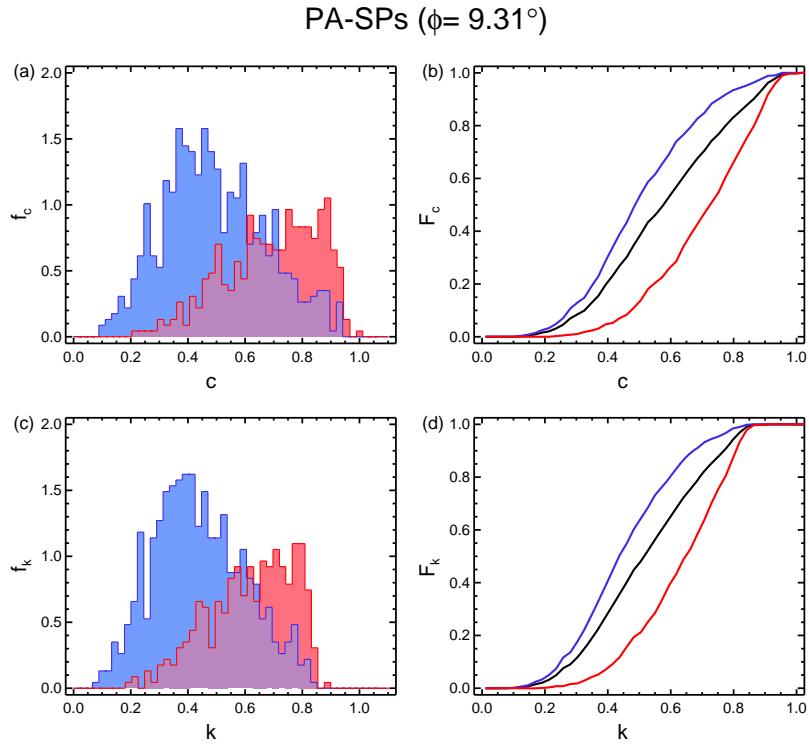


Figure S48. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at PA-SPs.

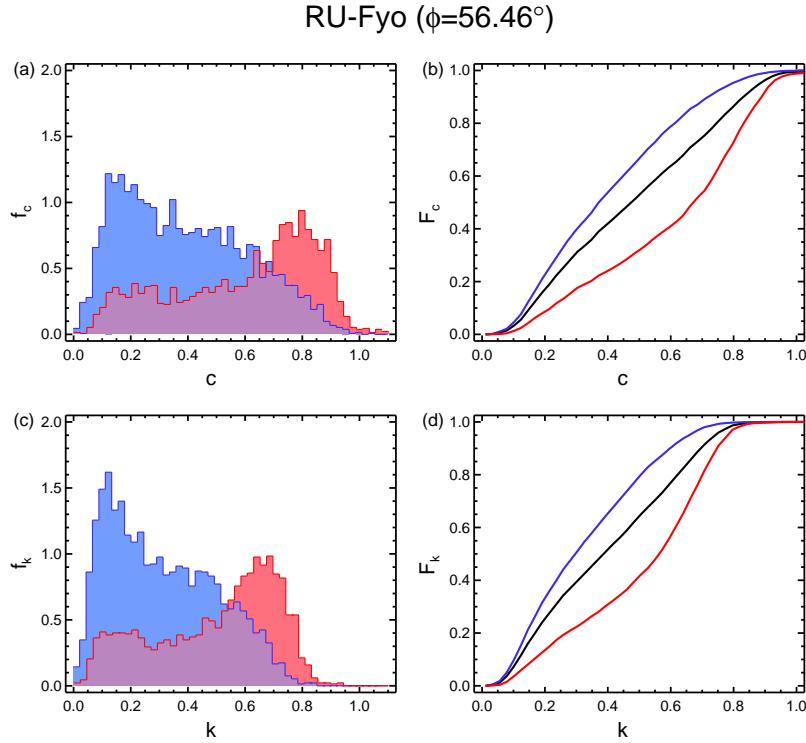


Figure S49. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at RU-Fyo.

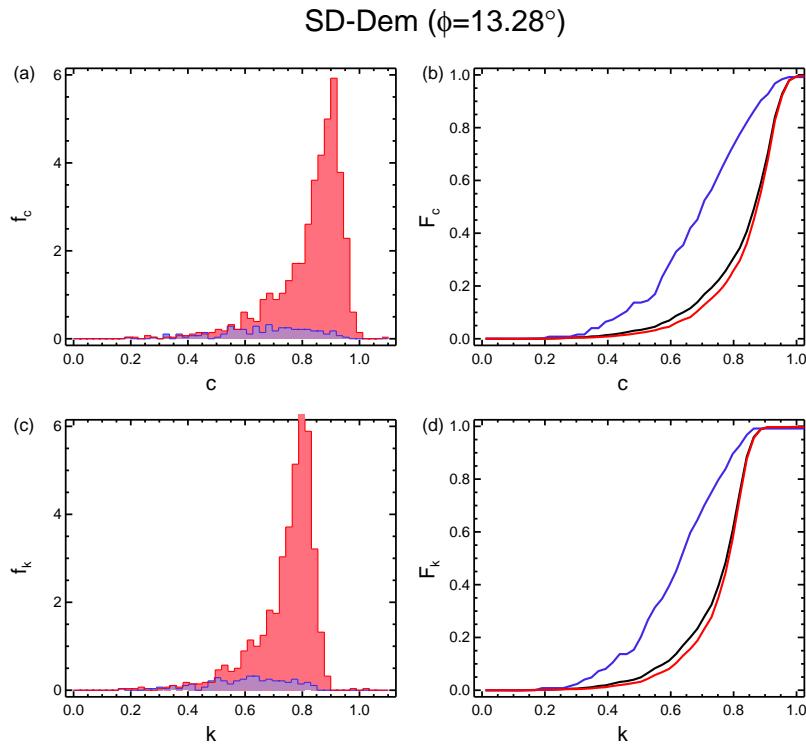


Figure S50. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at SD-Dem.

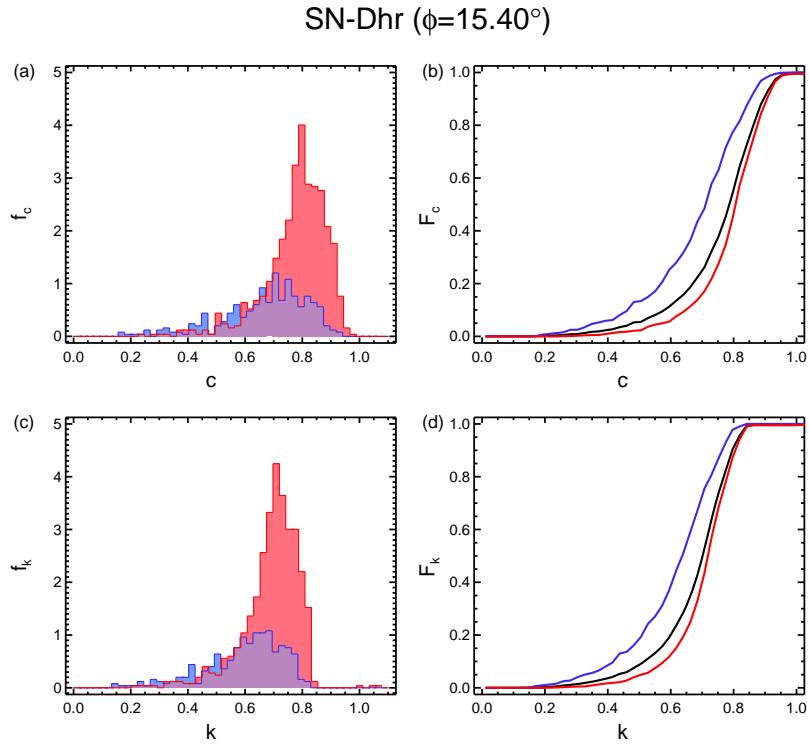


Figure S51. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at SN-Dhr.

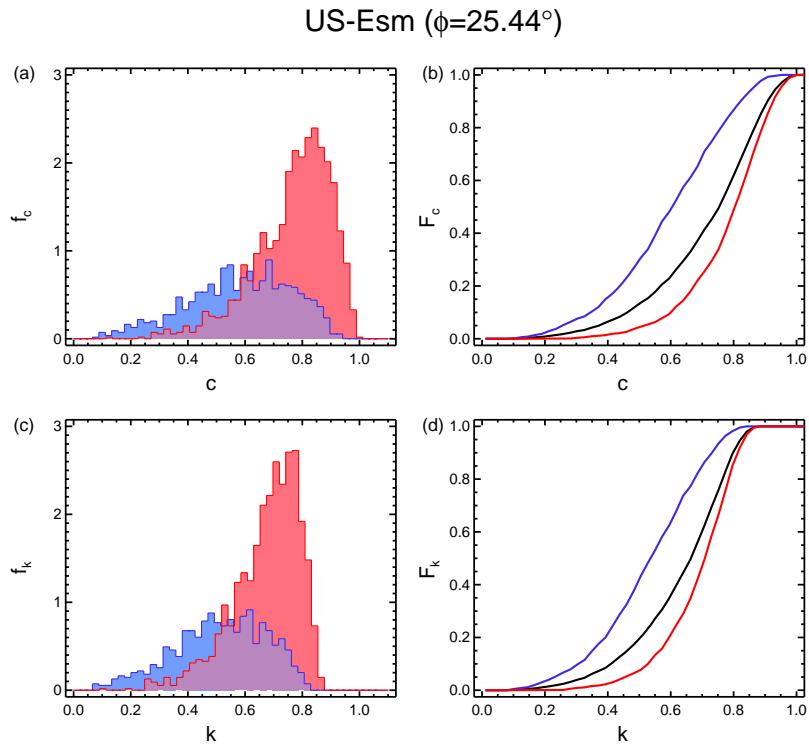


Figure S52. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at US-Esm.

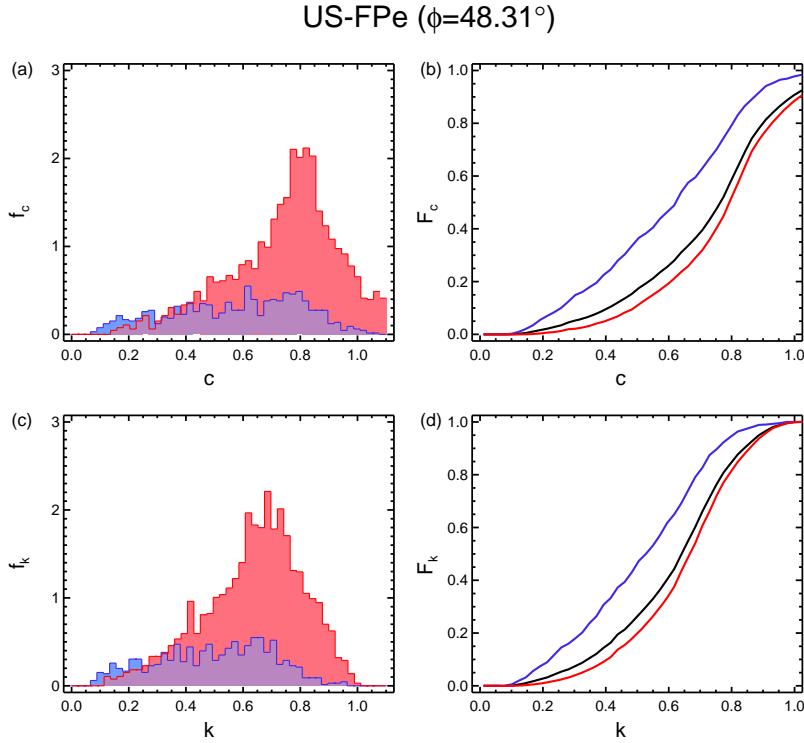


Figure S53. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at US-FPe.

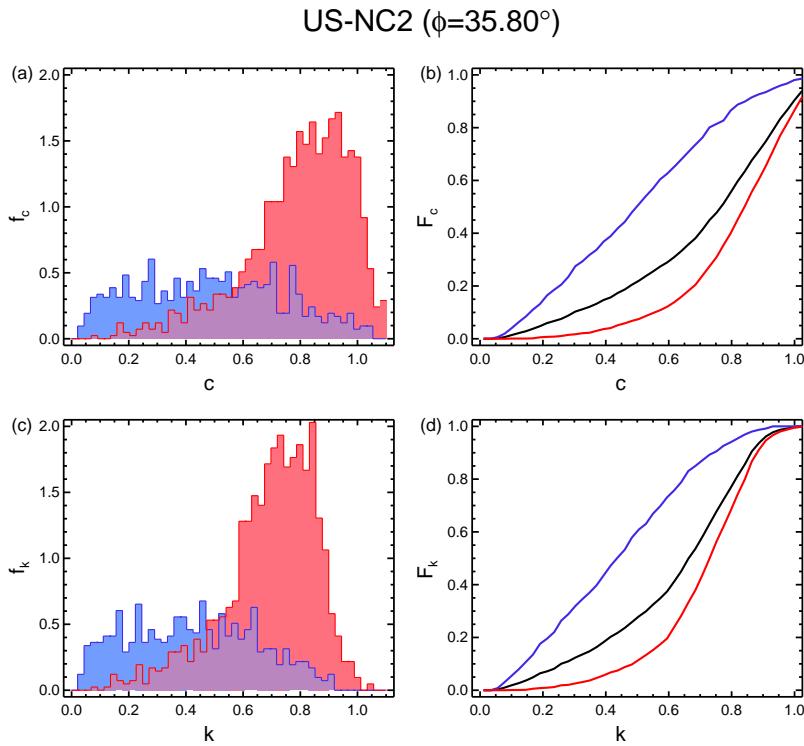


Figure S54. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at US-NC2.

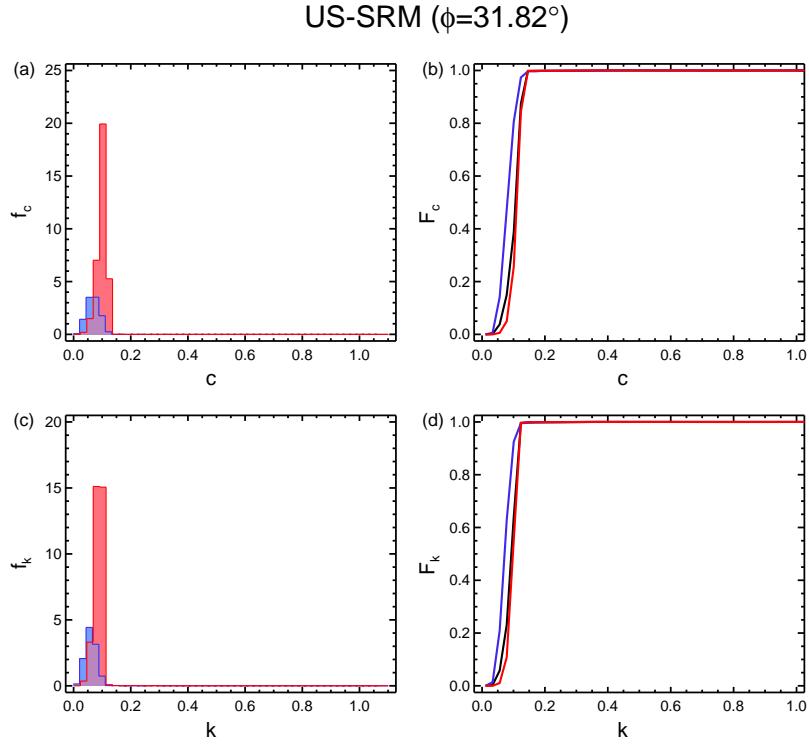


Figure S55. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at US-SRM.

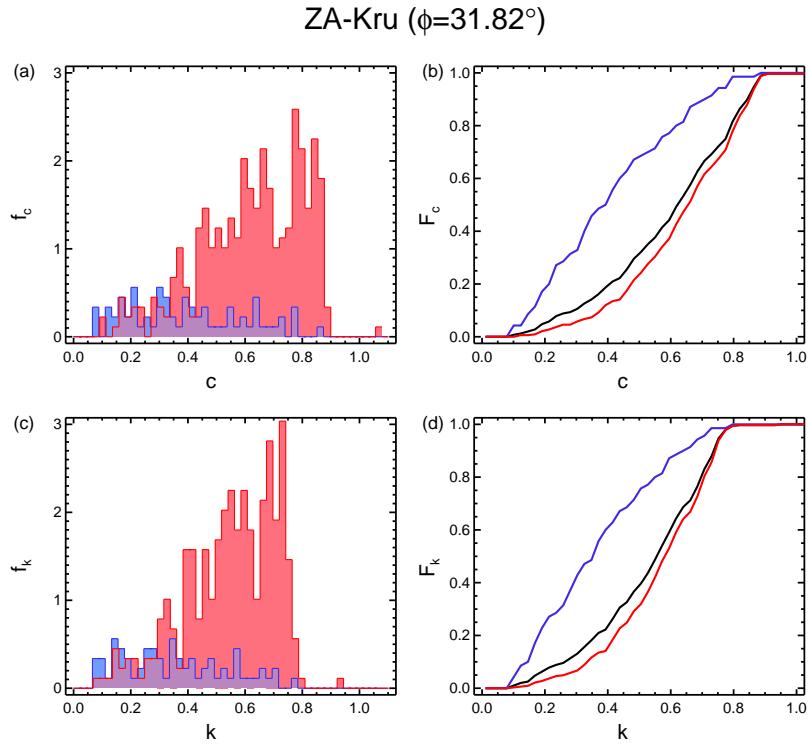


Figure S56. PDFs and CDFs during wet days (blue) and dry (red) of (a-b) c and (c-d) k at ZA-Kru.

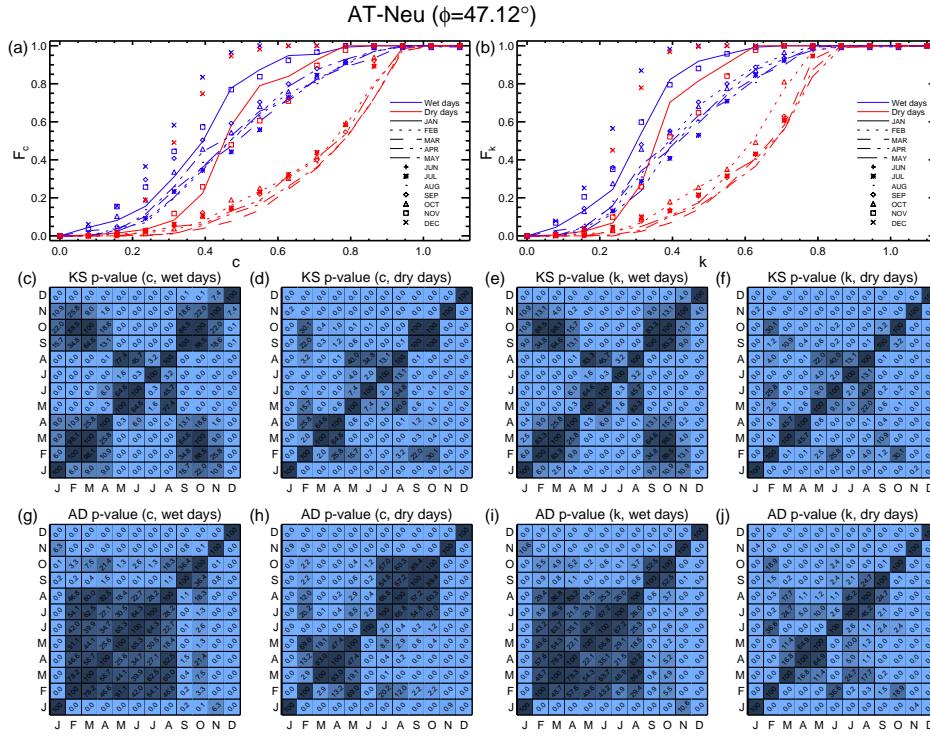


Figure S57. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at AT-Neu.

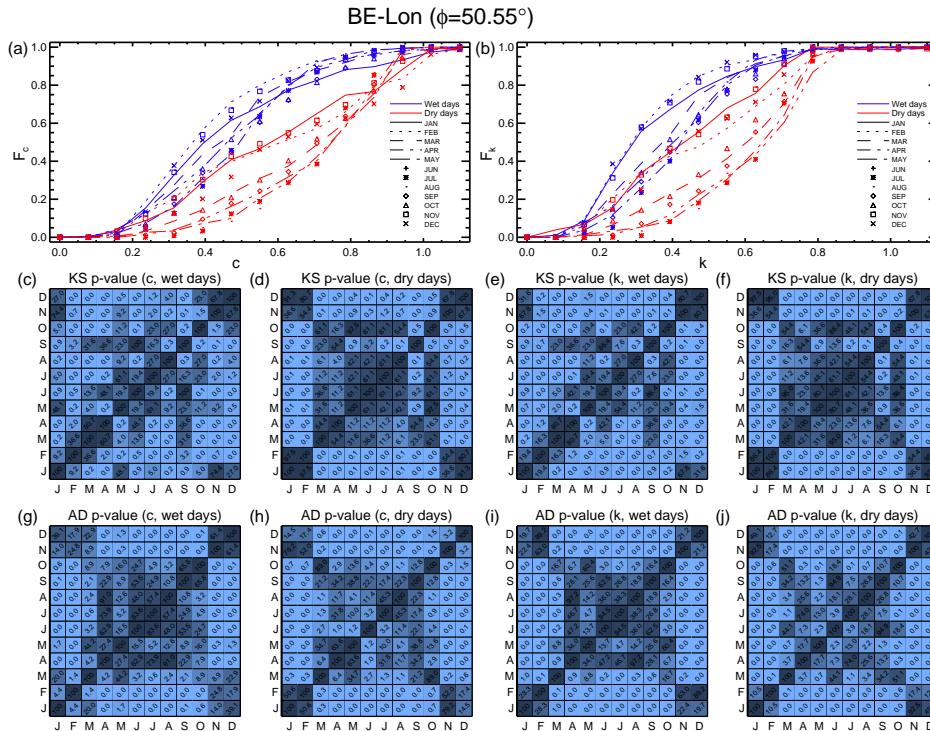


Figure S58. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at BE-Lon.

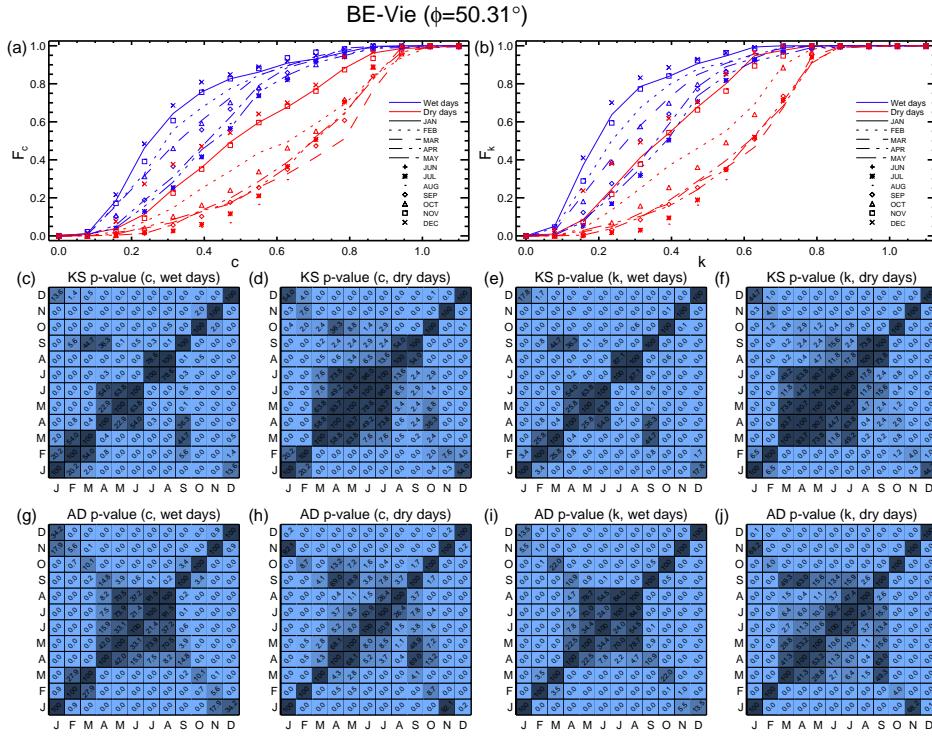


Figure S59. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at BE-Vie.

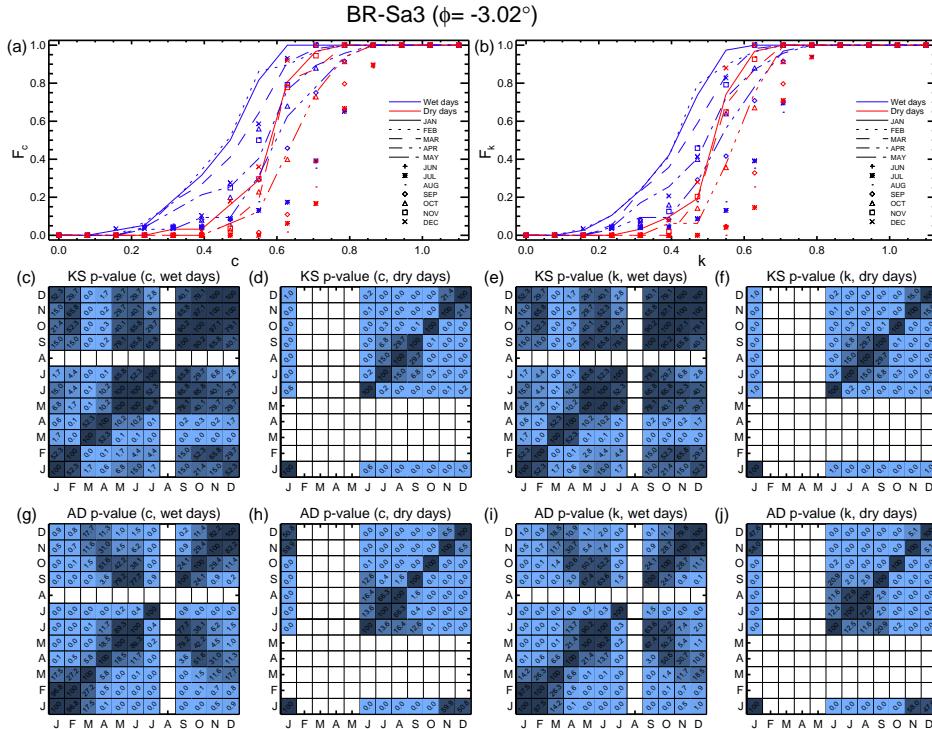


Figure S60. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at BR-Sa3.

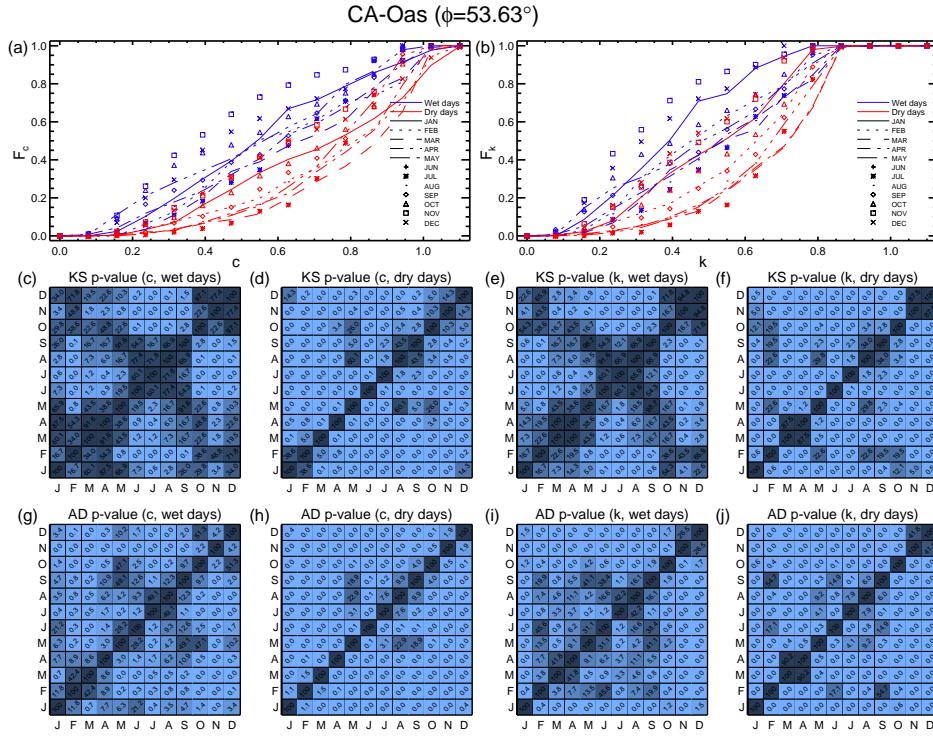


Figure S61. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at CA-Oas.

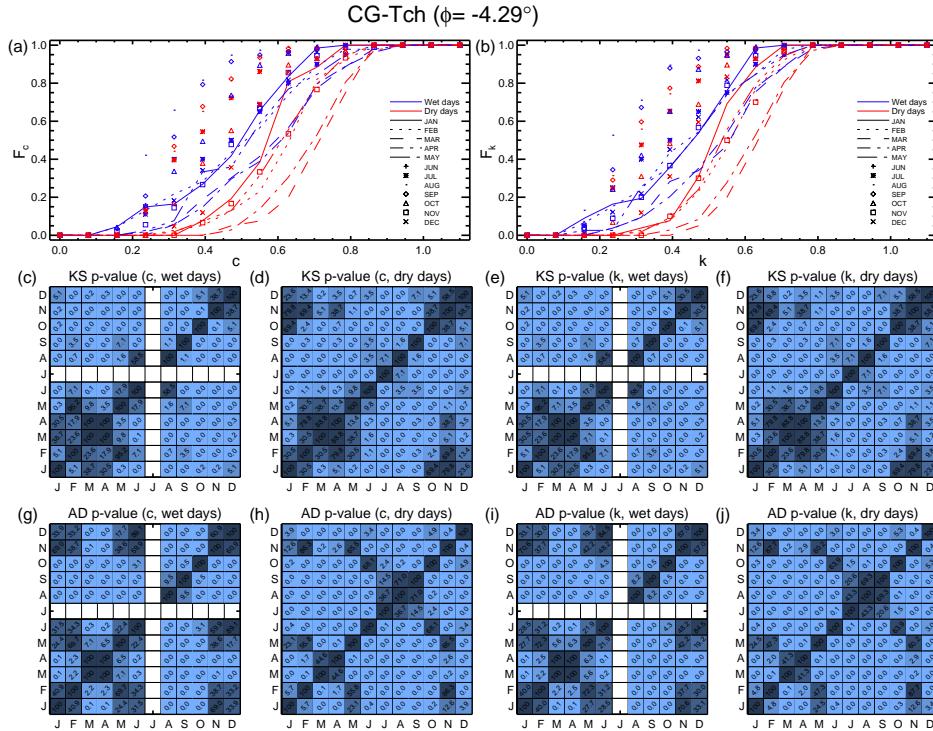


Figure S62. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at CG-Tch.

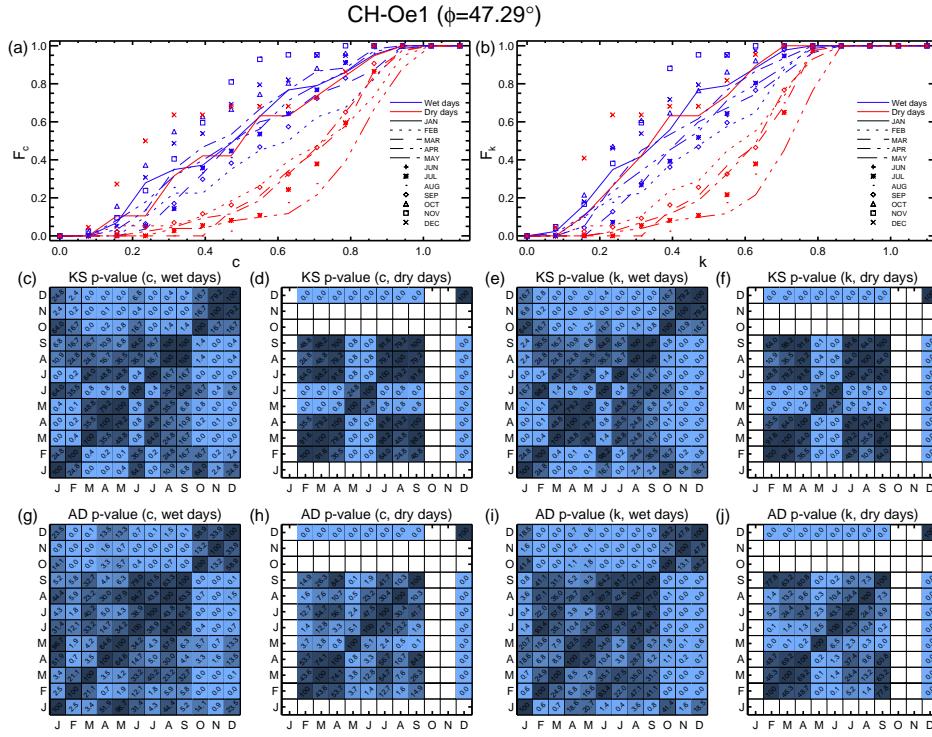


Figure S63. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at CH-Oe1.

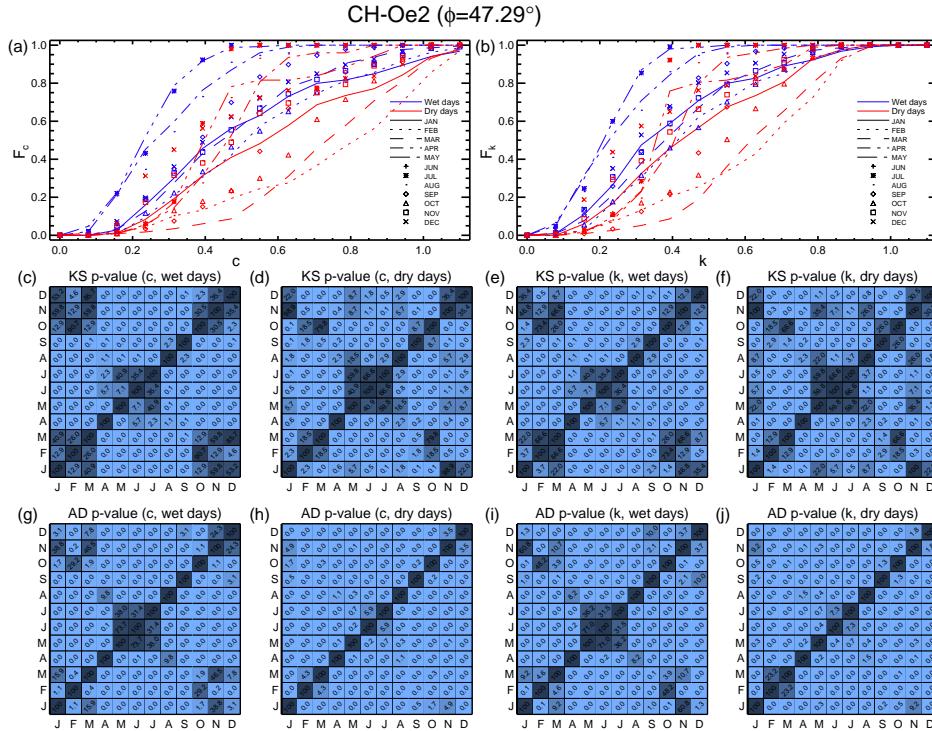


Figure S64. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at CH-Oe2.

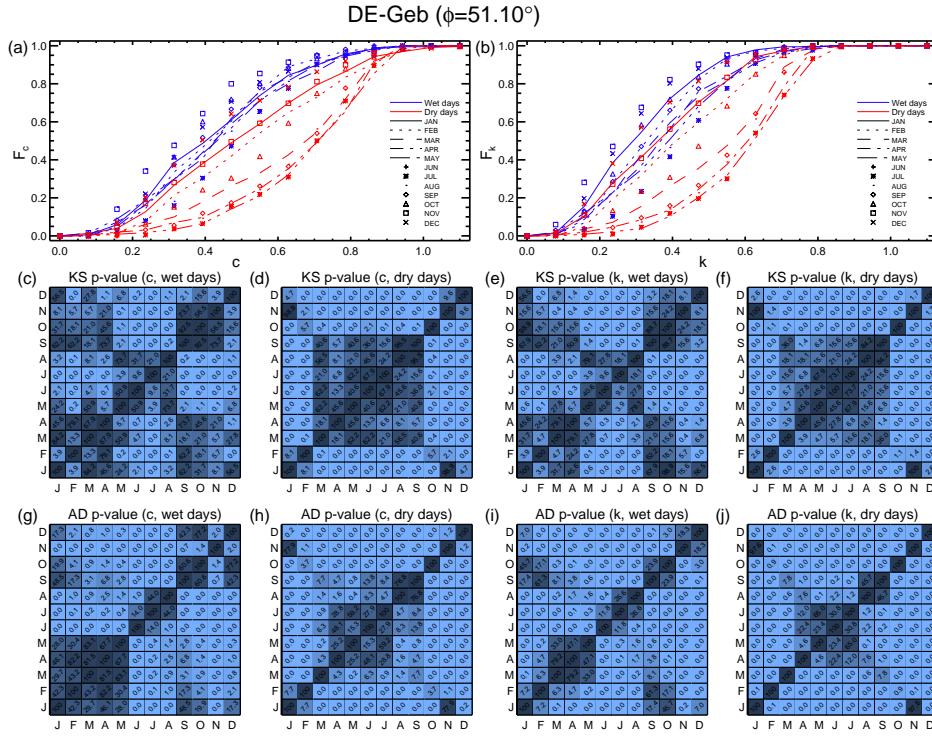


Figure S65. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at DE-Geb.

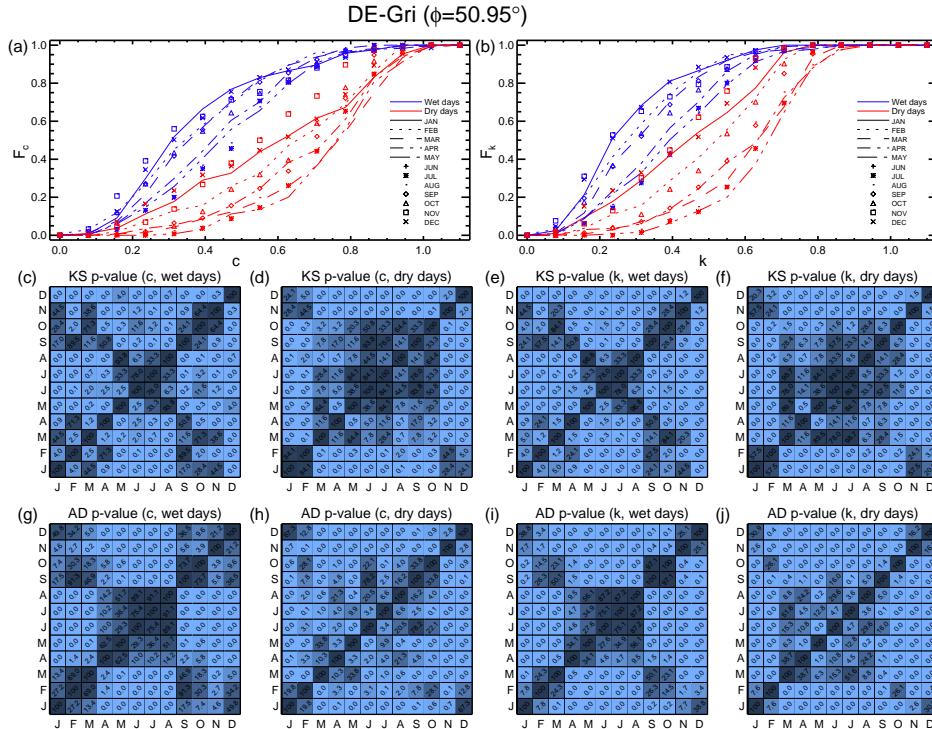


Figure S66. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at DE-Gri.

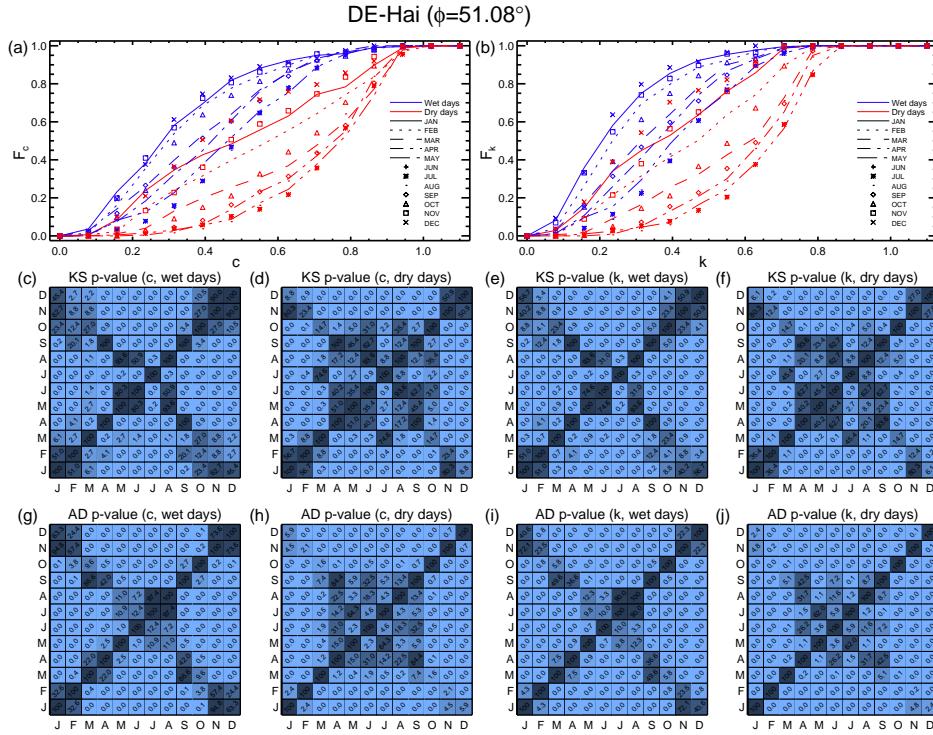


Figure S67. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at DE-Hai.

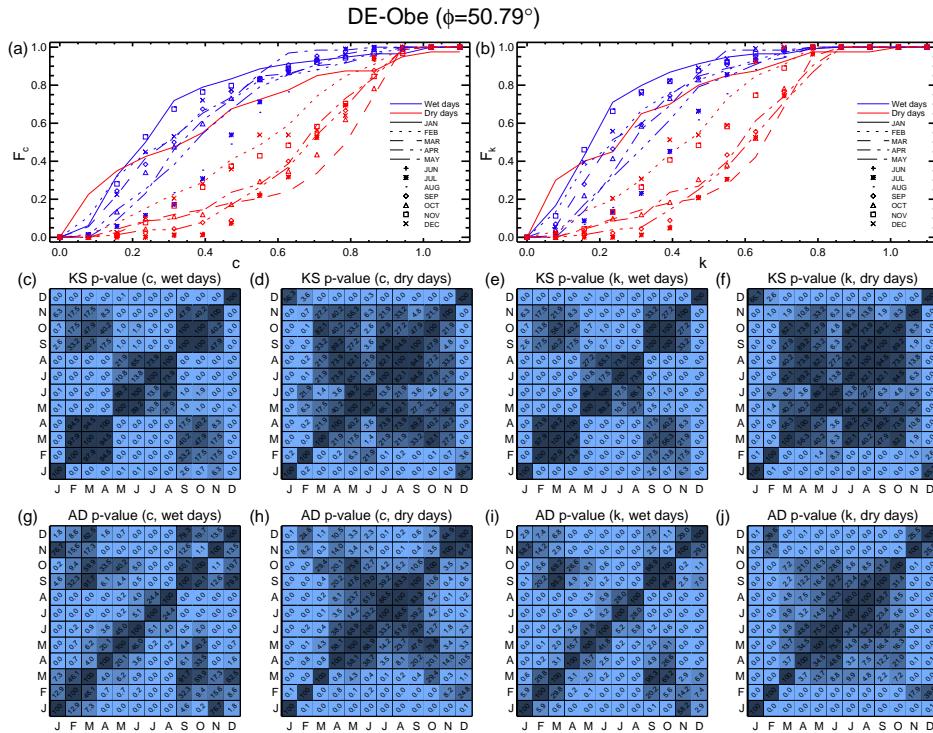


Figure S68. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at DE-Obe.

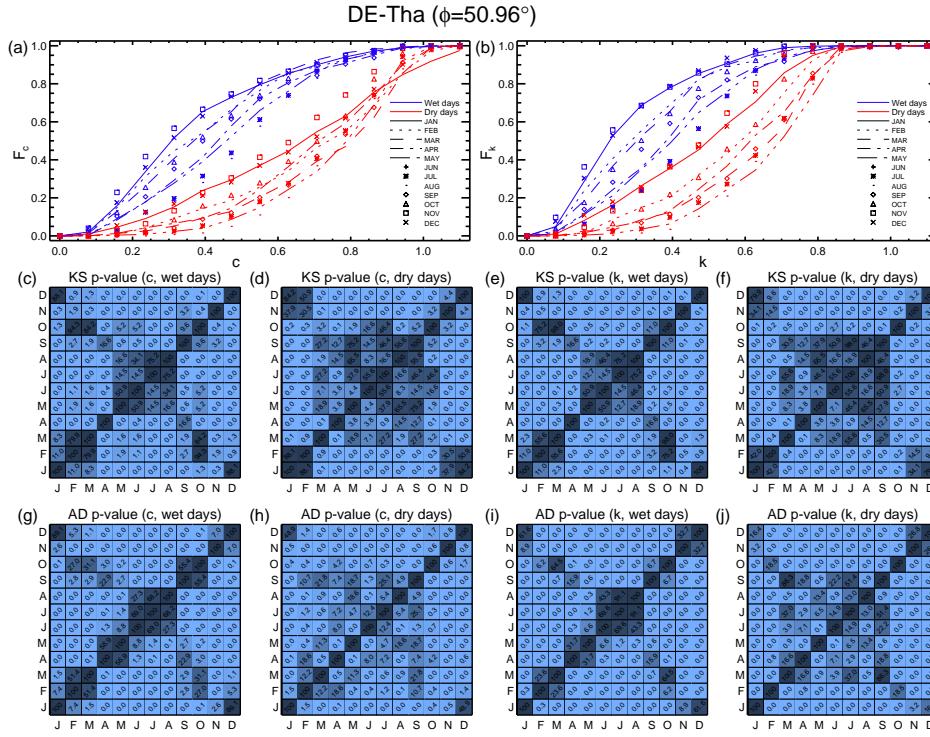


Figure S69. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at DE-Tha.

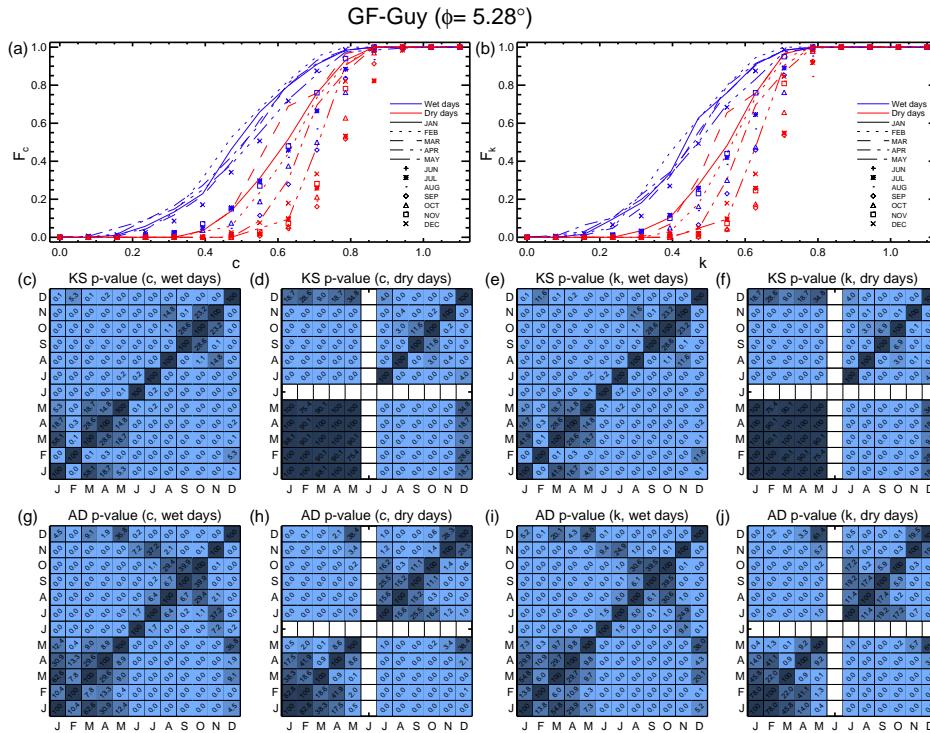


Figure S70. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at GF-Guy.

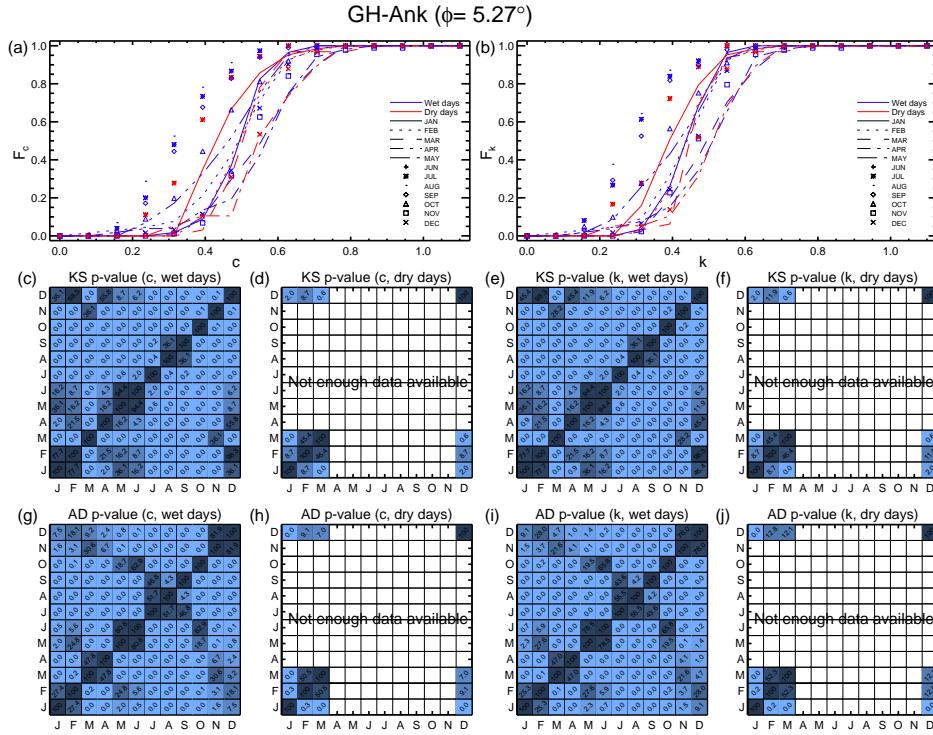


Figure S71. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at GH-Ank.

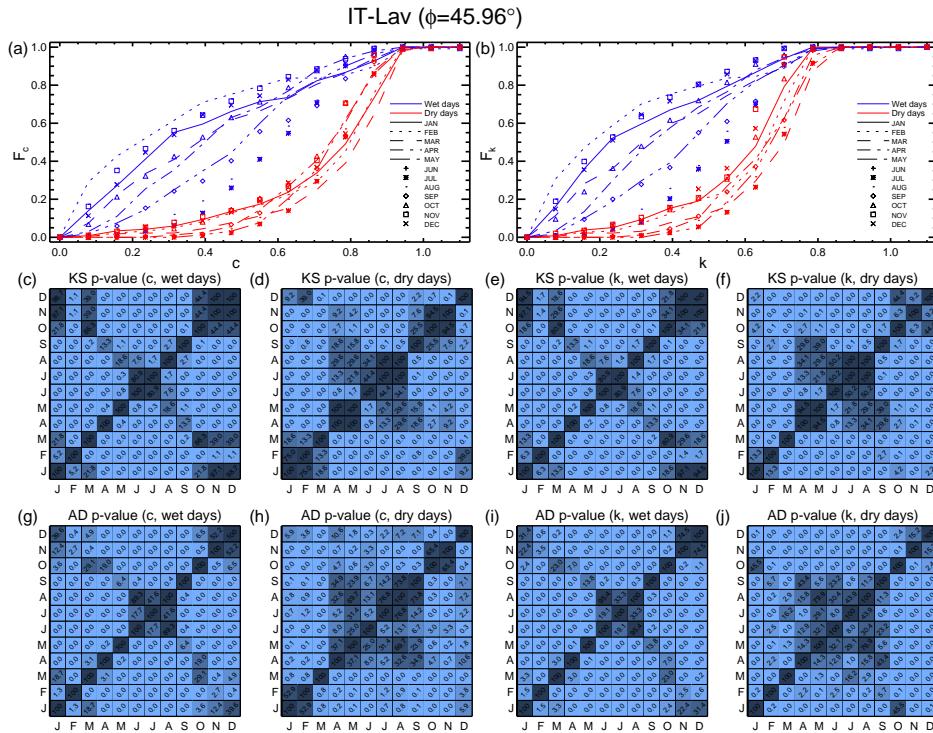


Figure S72. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at IT-Lav.

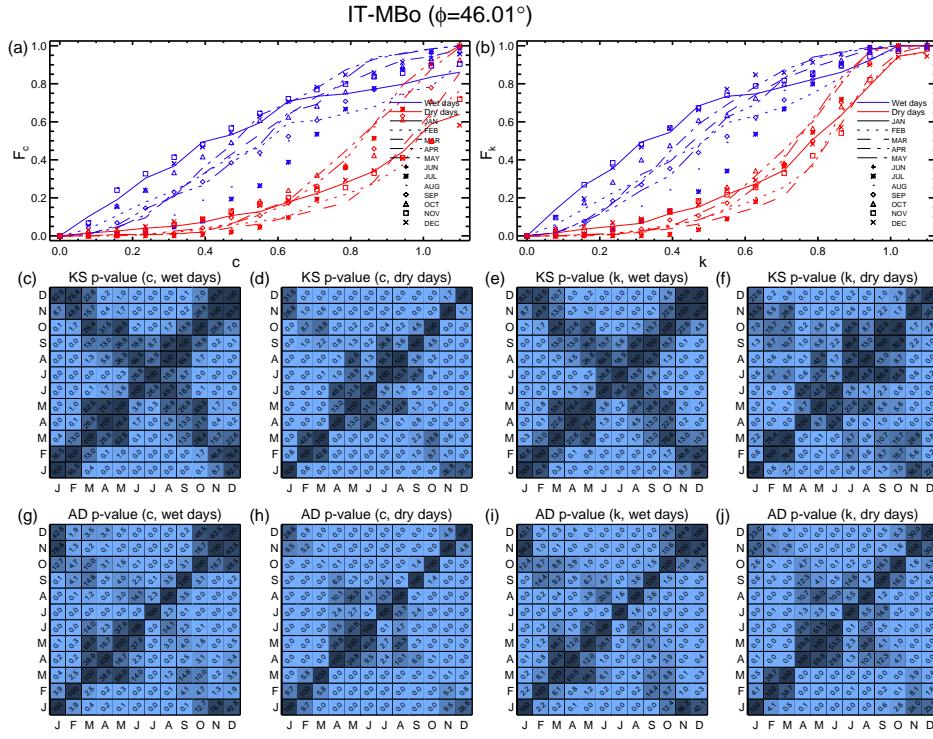


Figure S73. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at IT-MBo.

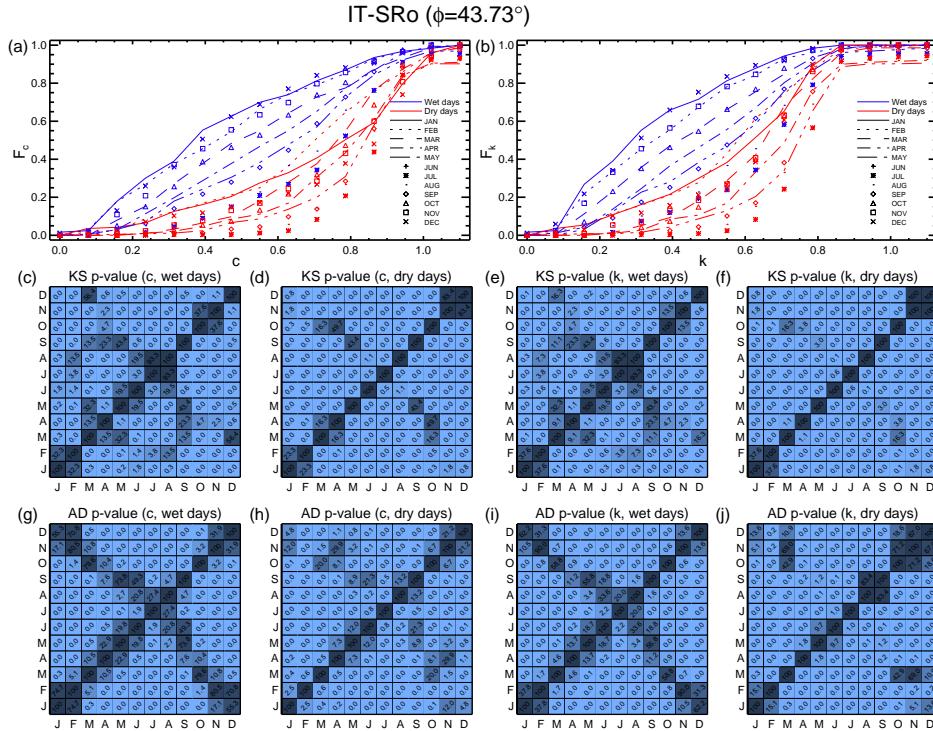


Figure S74. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at IT-SRo.

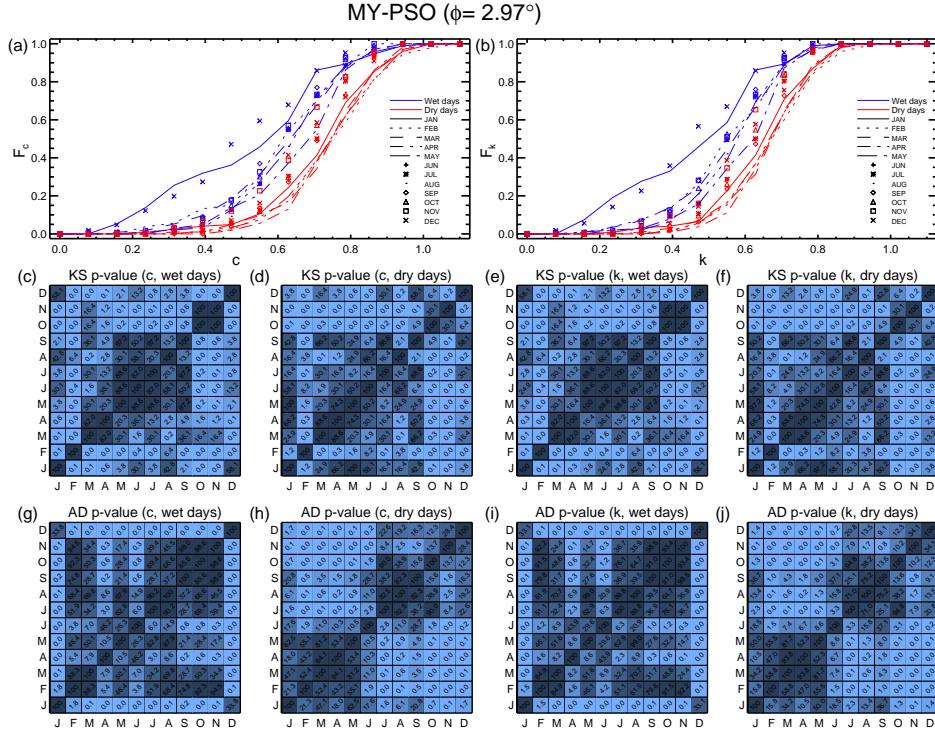


Figure S75. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at MY-PSO.

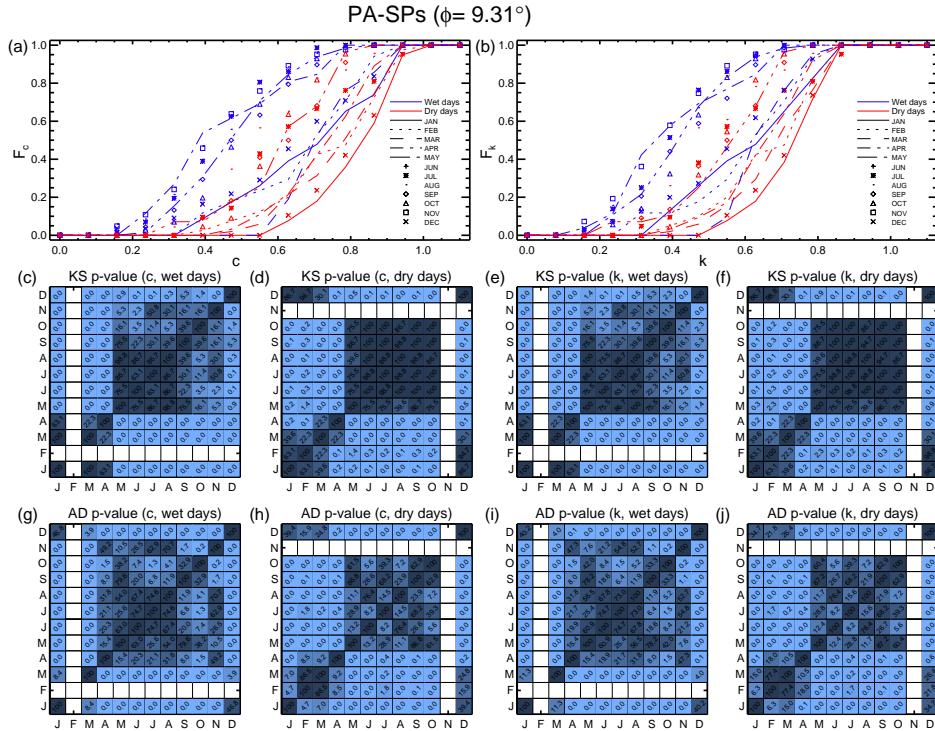


Figure S76. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at PA-SPS.

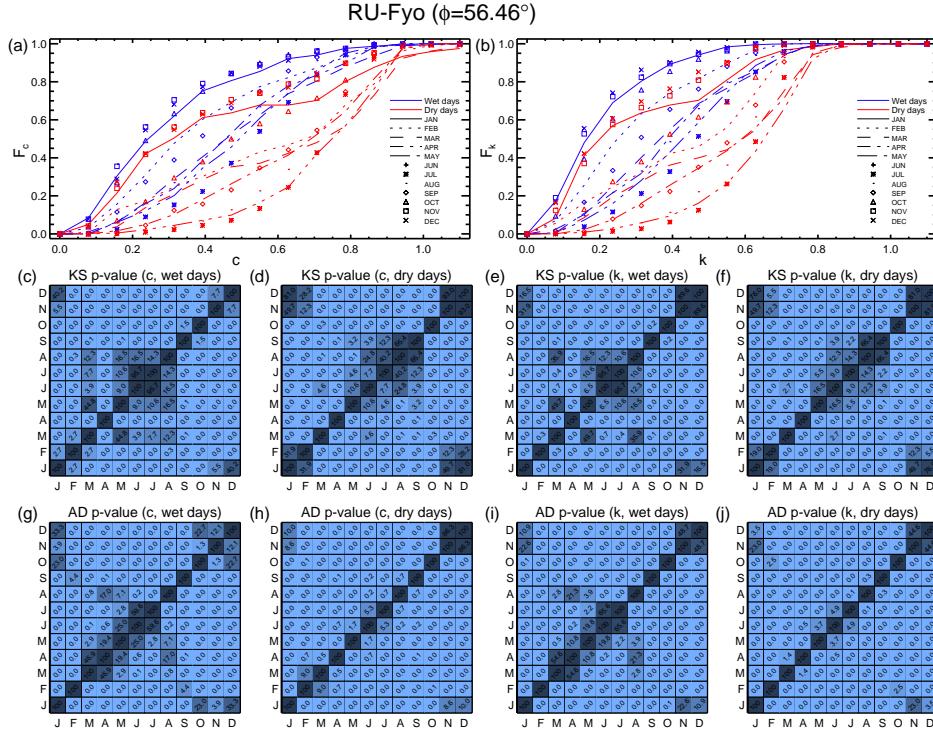


Figure S77. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at RU-Fyo.

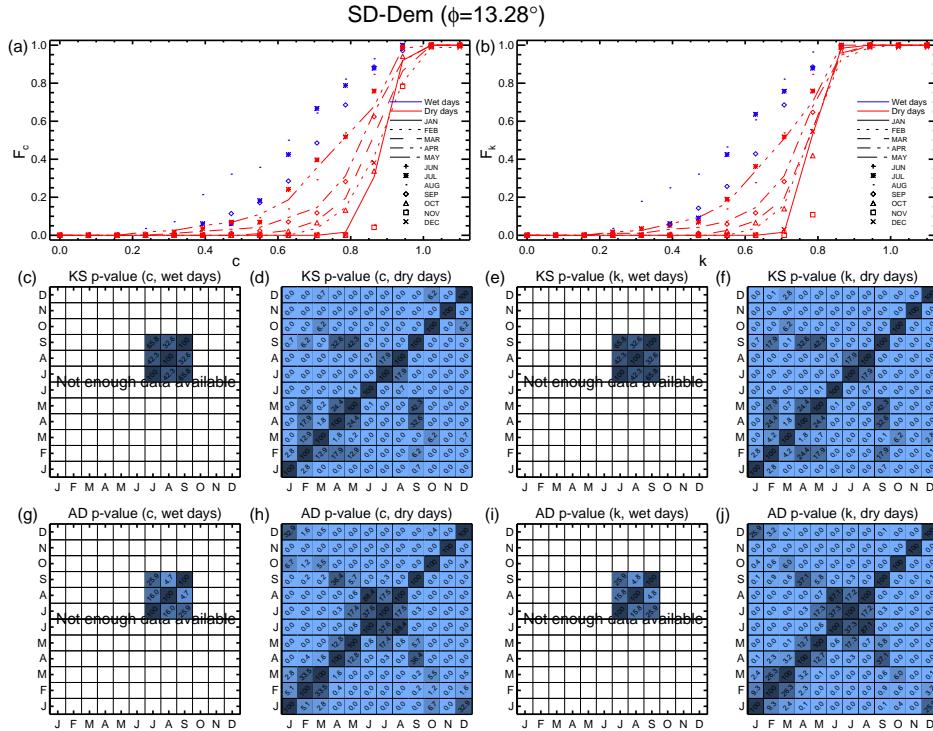


Figure S78. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at SD-Dem.

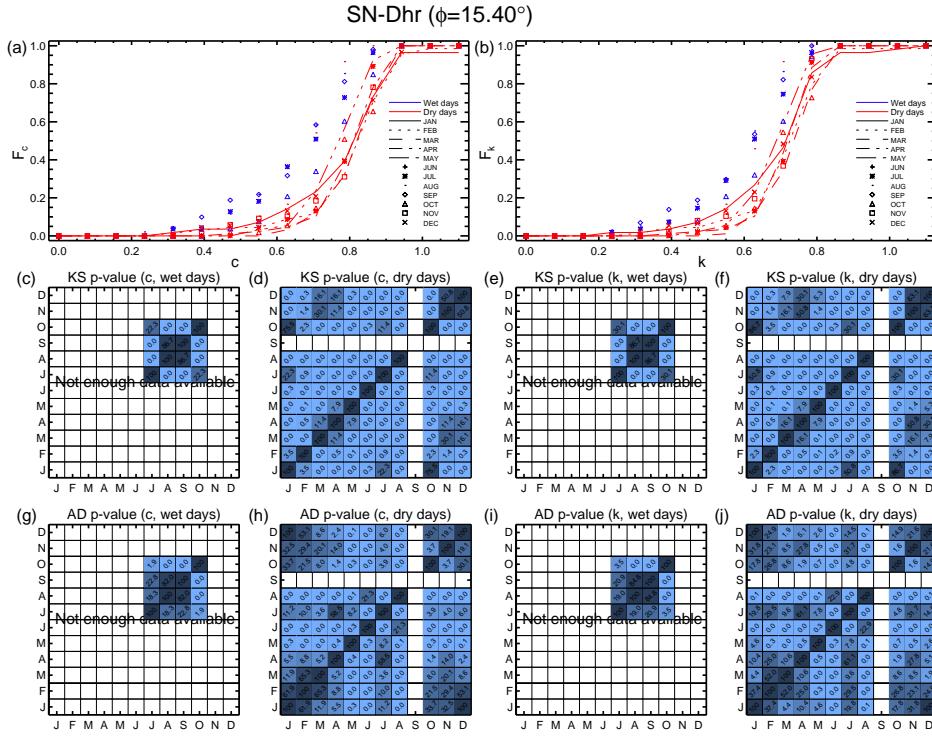


Figure S79. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at SN-Dhr.

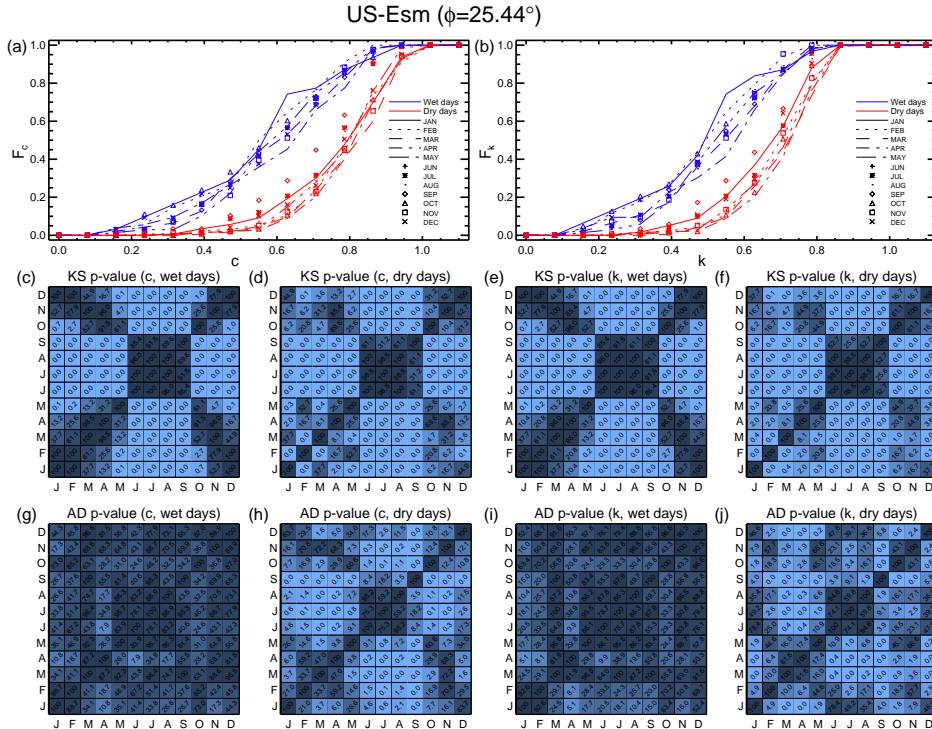


Figure S80. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at US-Esm.

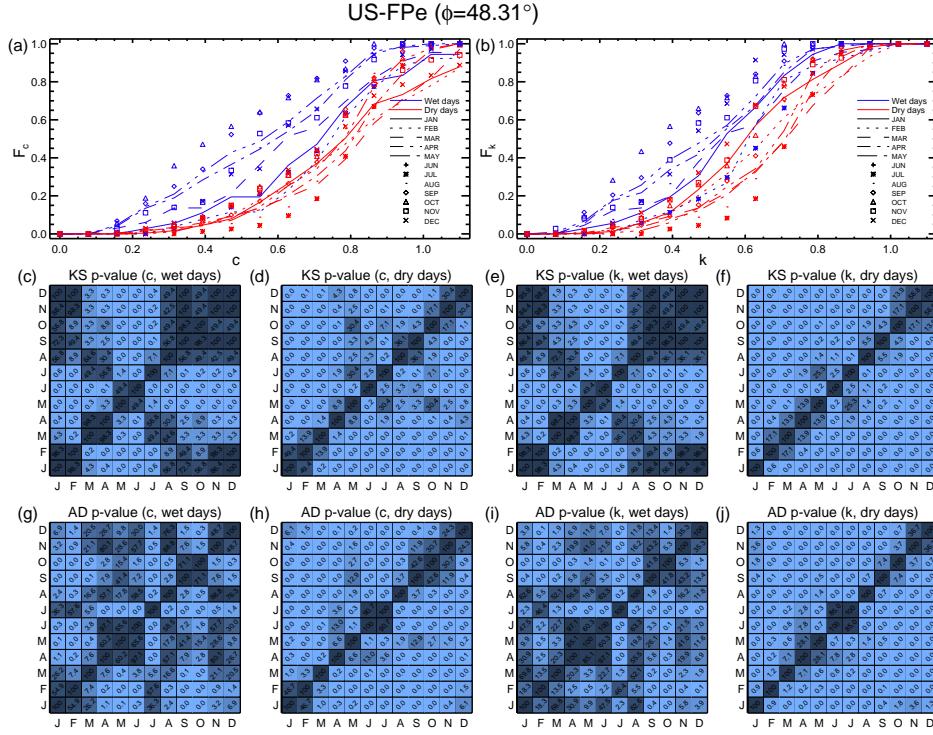


Figure S81. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at US-FPe.

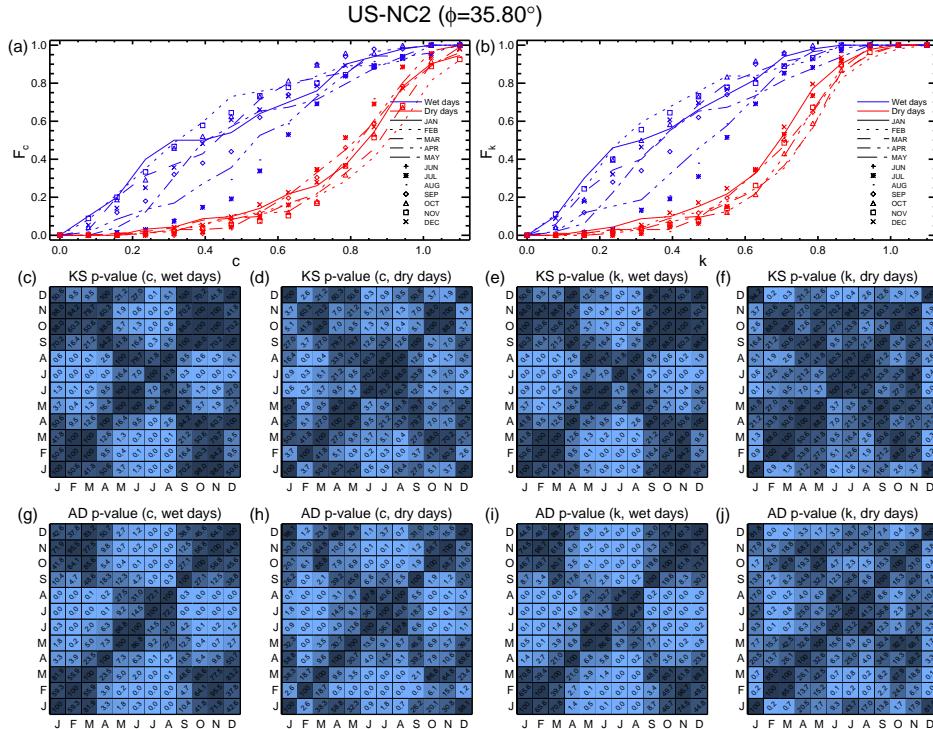


Figure S82. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at US-NC2.

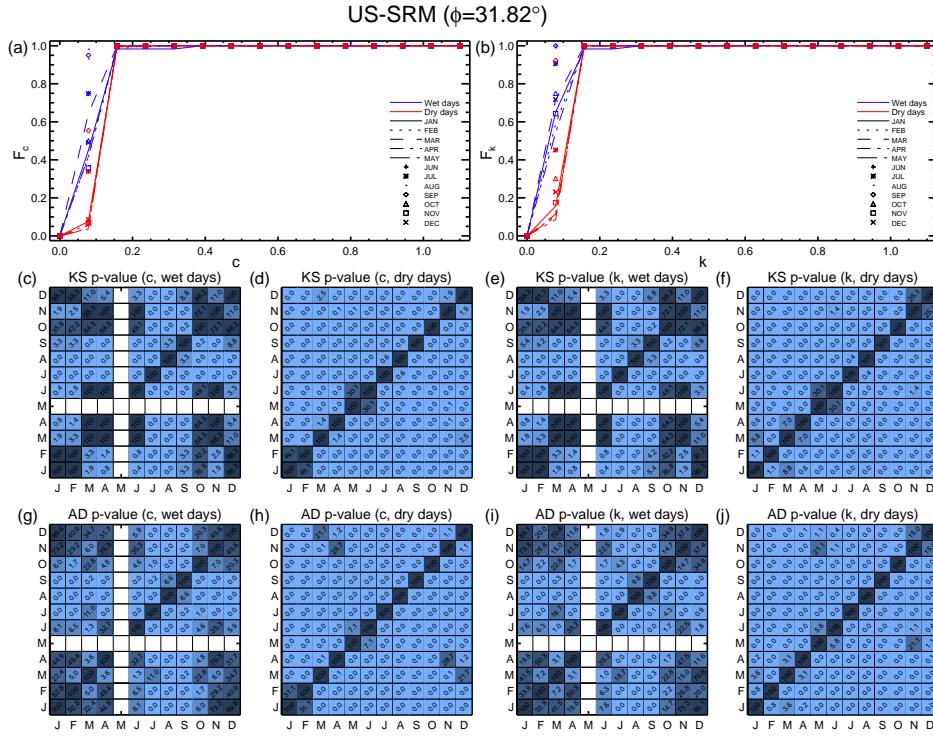


Figure S83. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at US-SRM.

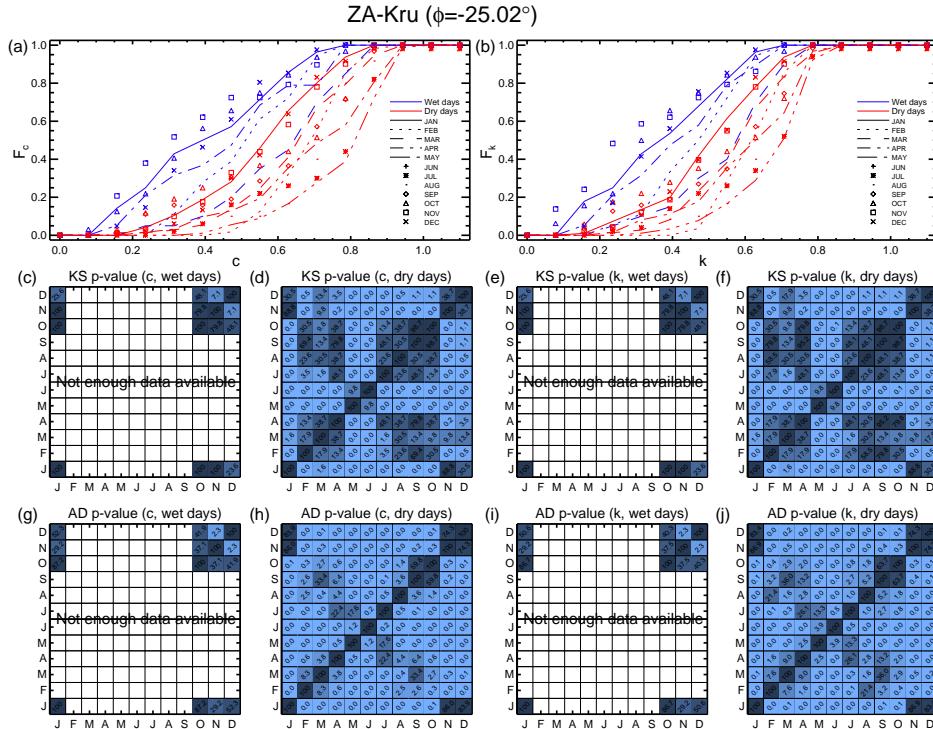


Figure S84. Monthly CDFs of (a) c , and (b) k . (c-j) p-value of the 2-sample KS and AD tests applied to all combinations of monthly CDF of c and k during wet (blue) and dry (red) days at ZA-Kru.