Supplement S1

February 14, 2022

1 Time series of the VOM

1.1 North Australian Tropical Transect

1.1.1 Howard Springs

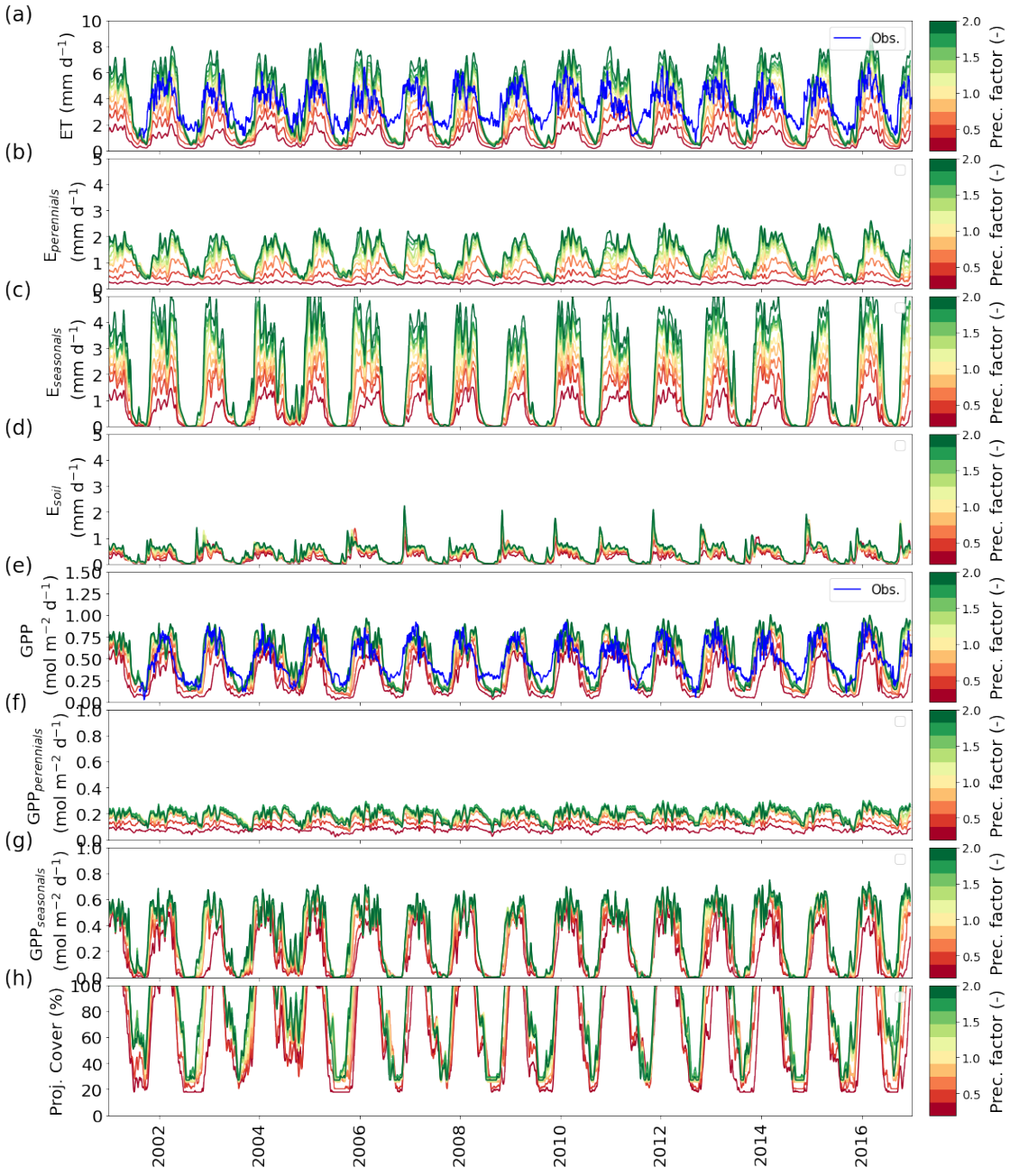

Figure S1.1. *Fluxes for Howard Springs from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7*

days, for the optimized VOM with different multiplications of the precipitation (color scale).

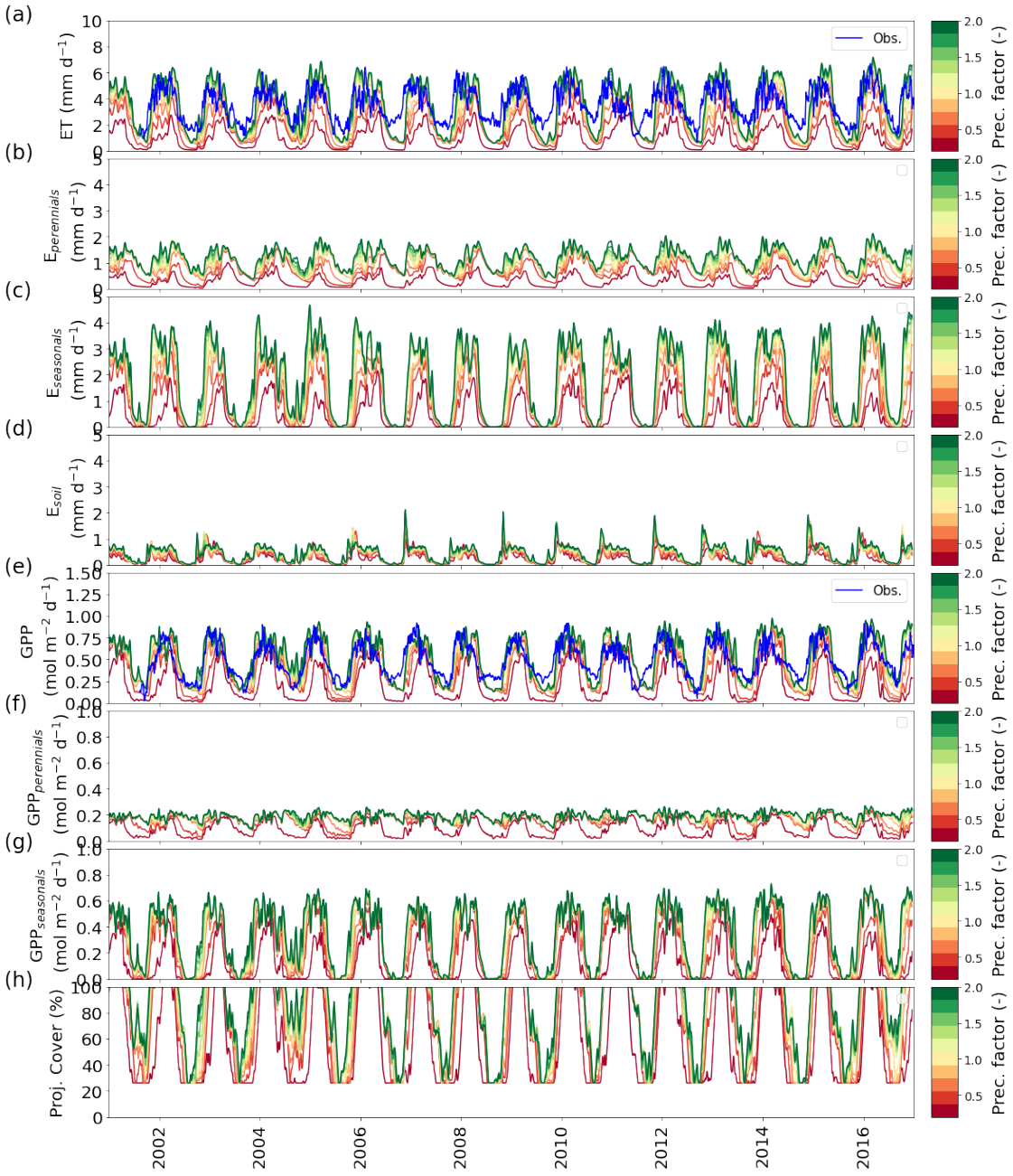

Figure S1.2. *Fluxes for Howard Springs from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

1.1.2 Adelaide River

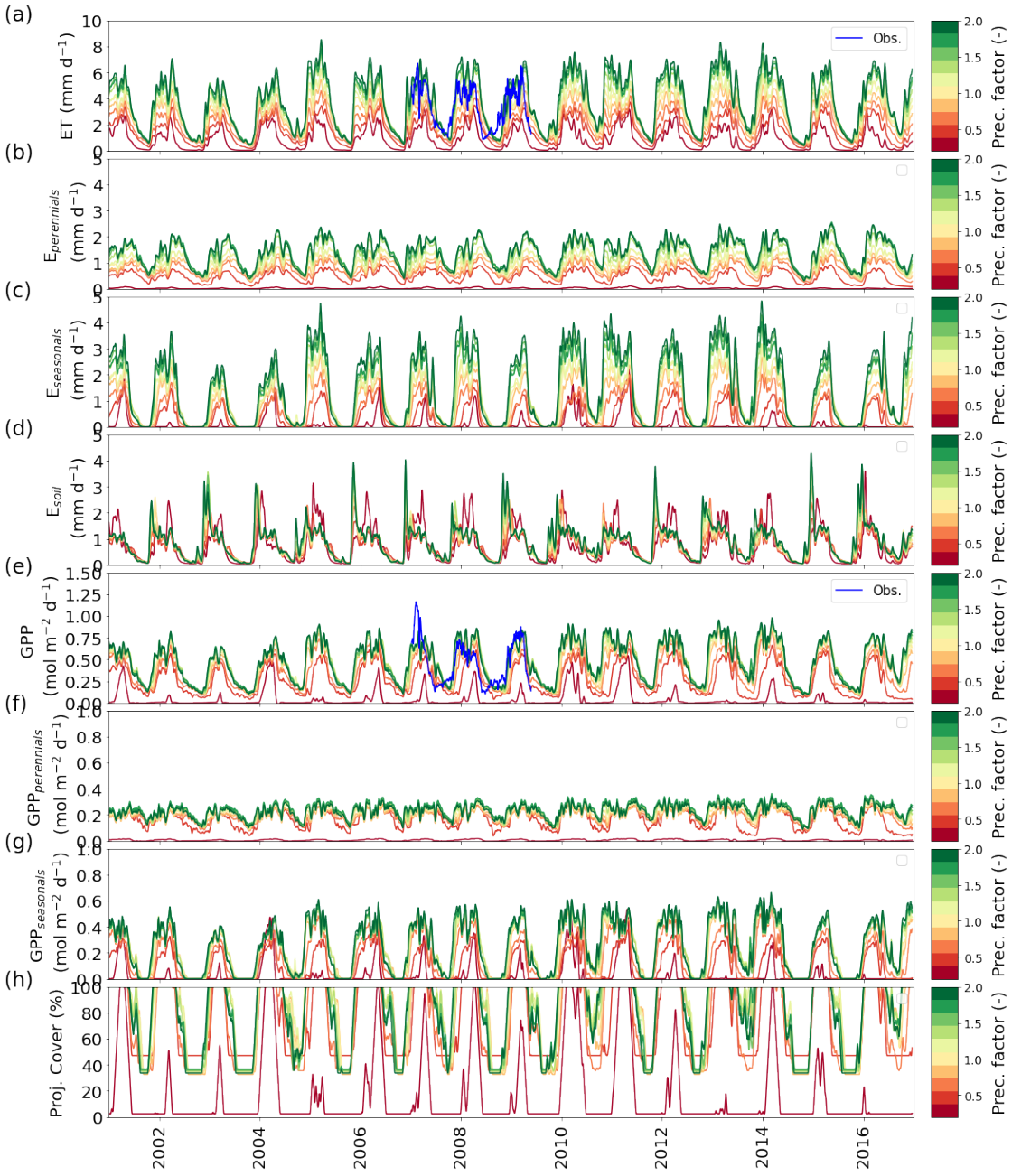

Figure S1.3. *Fluxes for Adelaide River from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

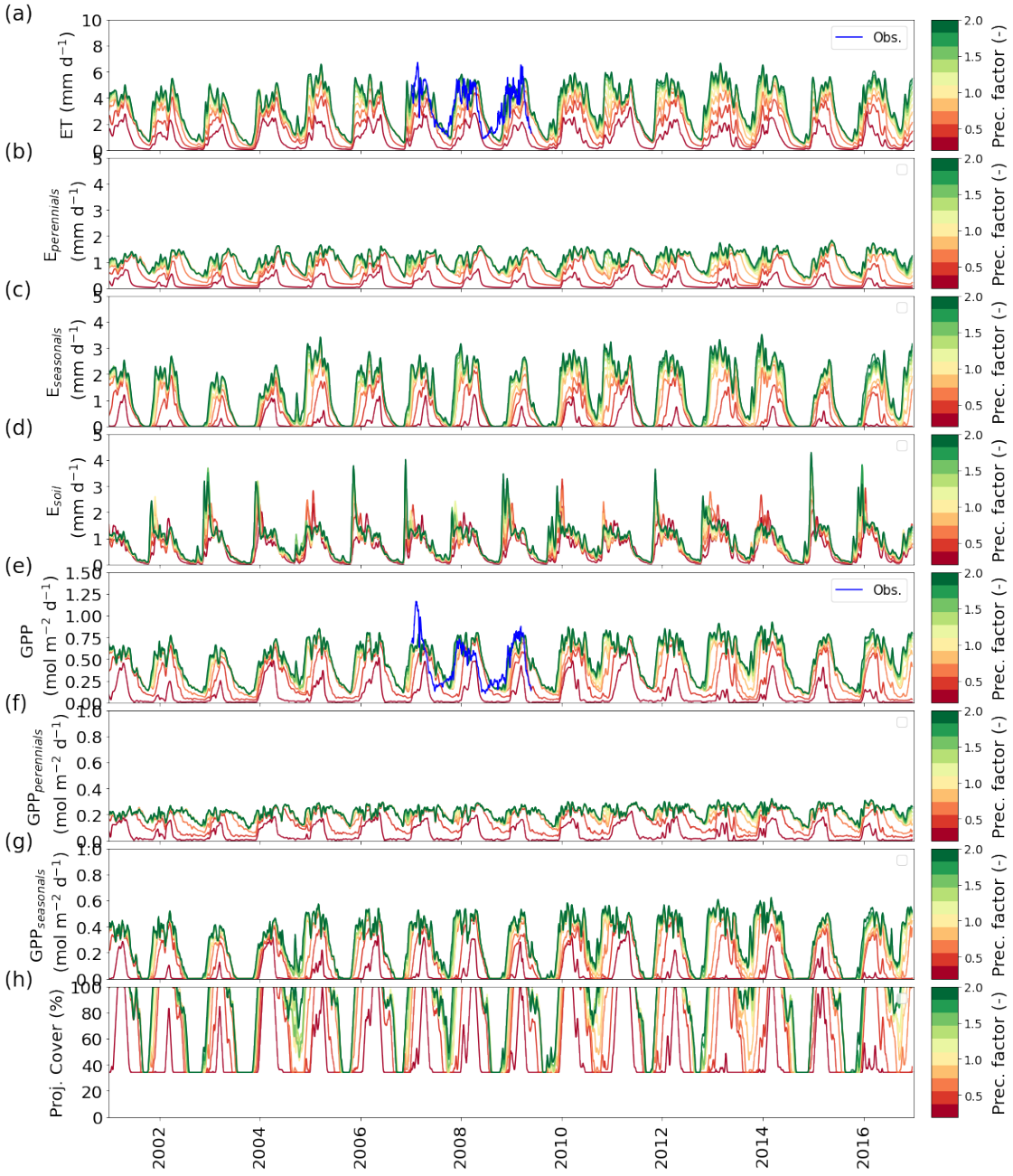

Figure S1.4. *Fluxes for Adelaide River from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

1.1.3 Daly Uncleared

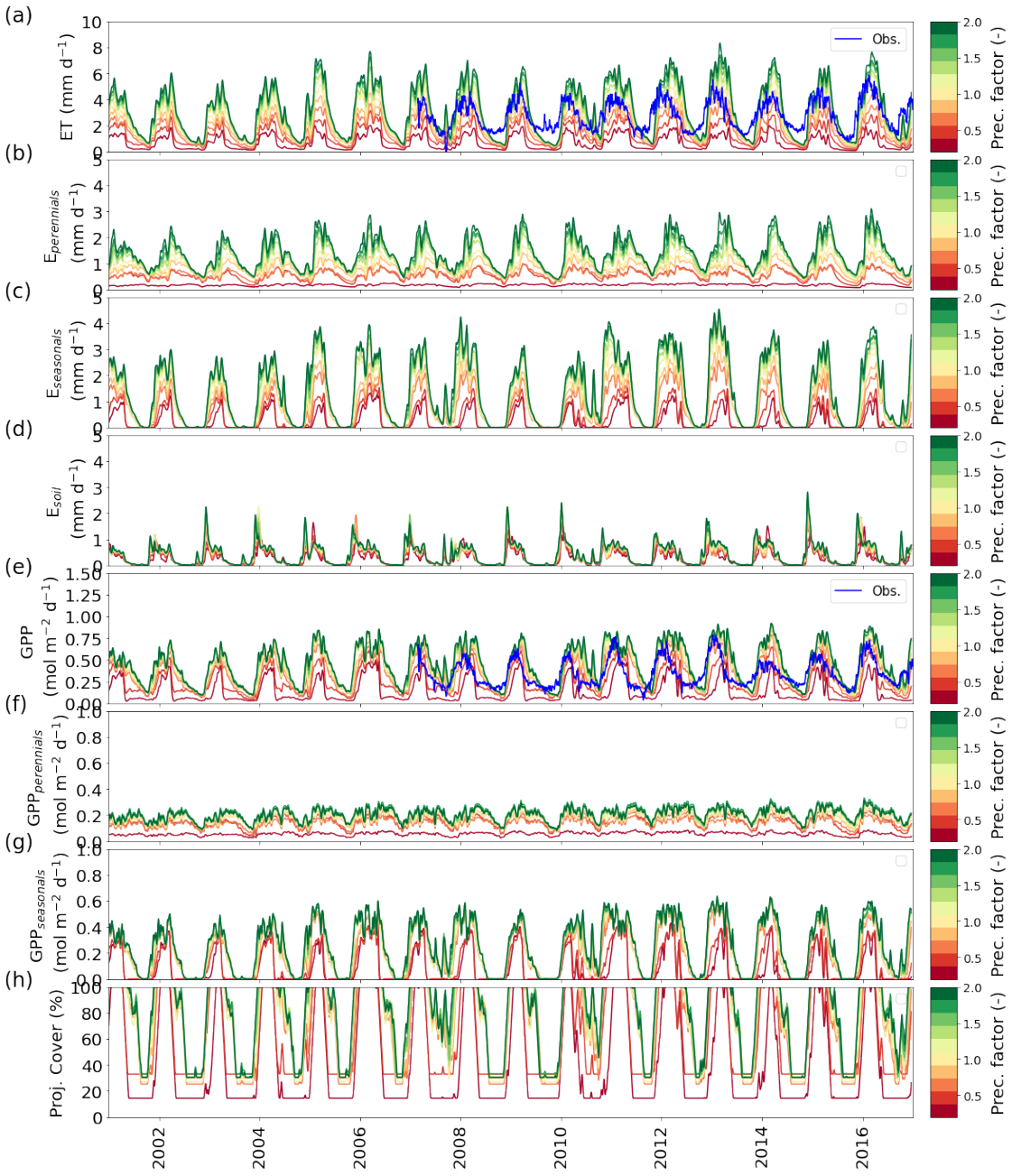

Figure S1.5. *Fluxes for Daly Uncleared from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

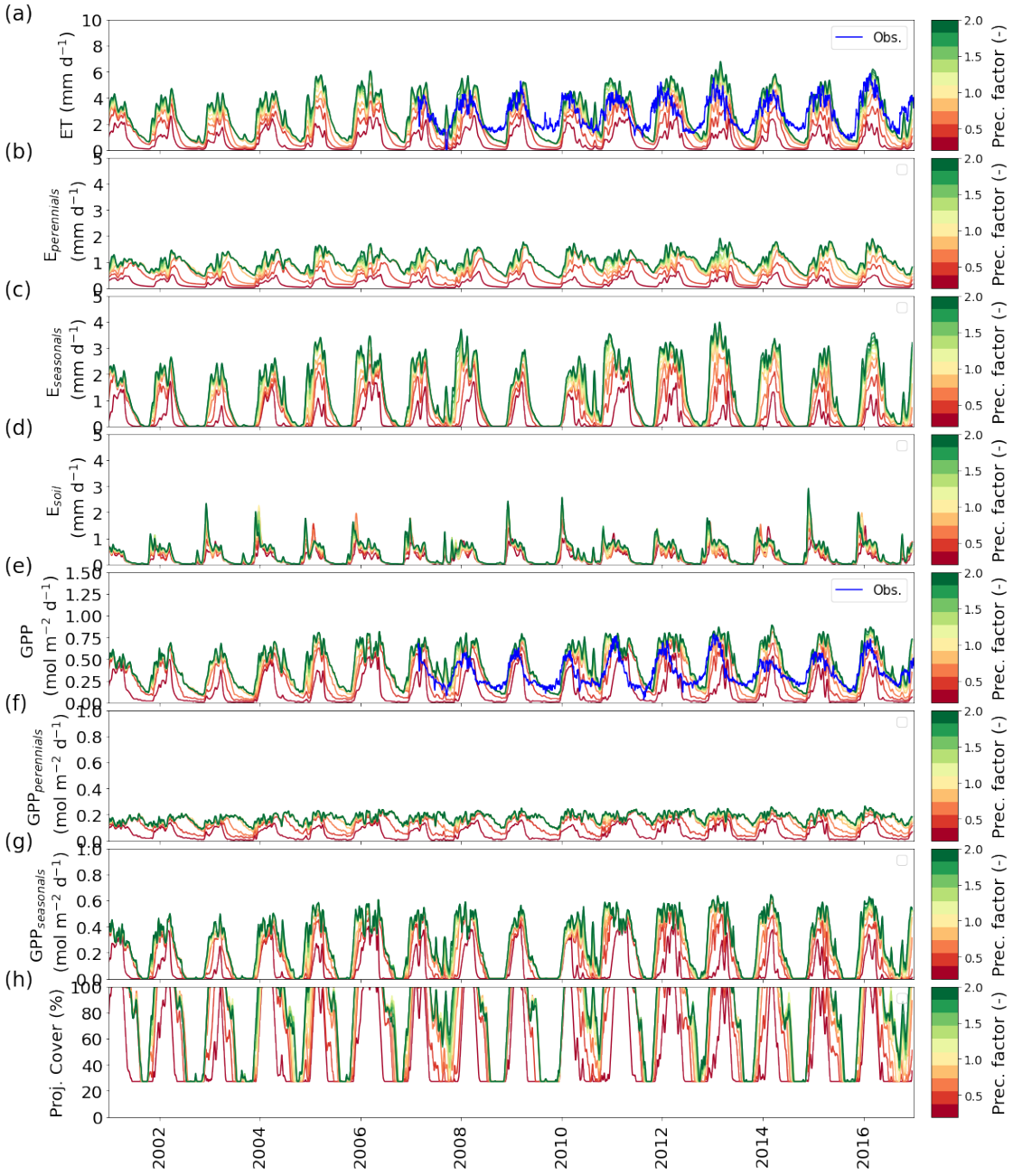

Figure S1.6. *Fluxes for Daly Uncleared from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

1.1.4 Dry River

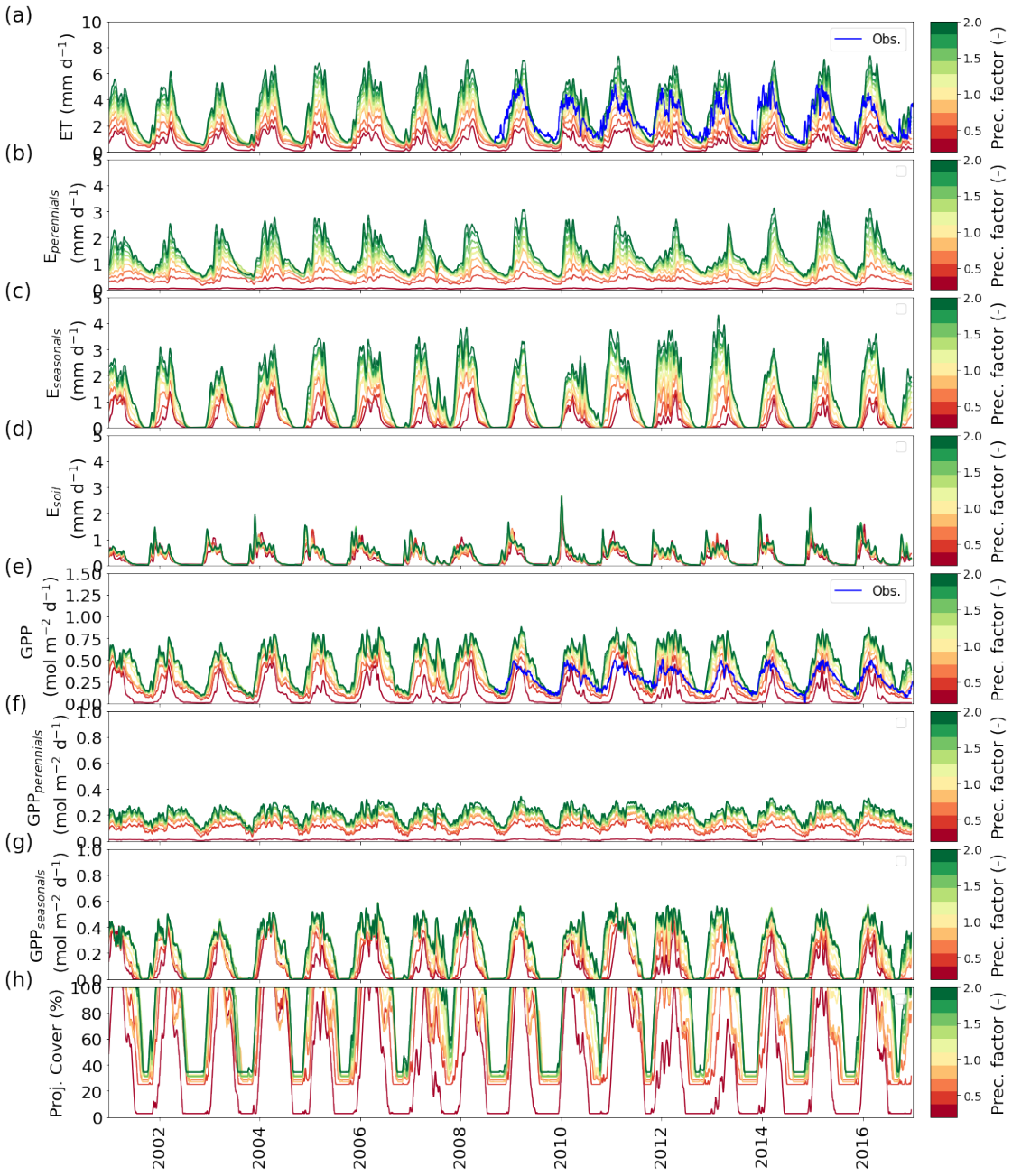

Figure S1.7. *Fluxes for Dry River from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

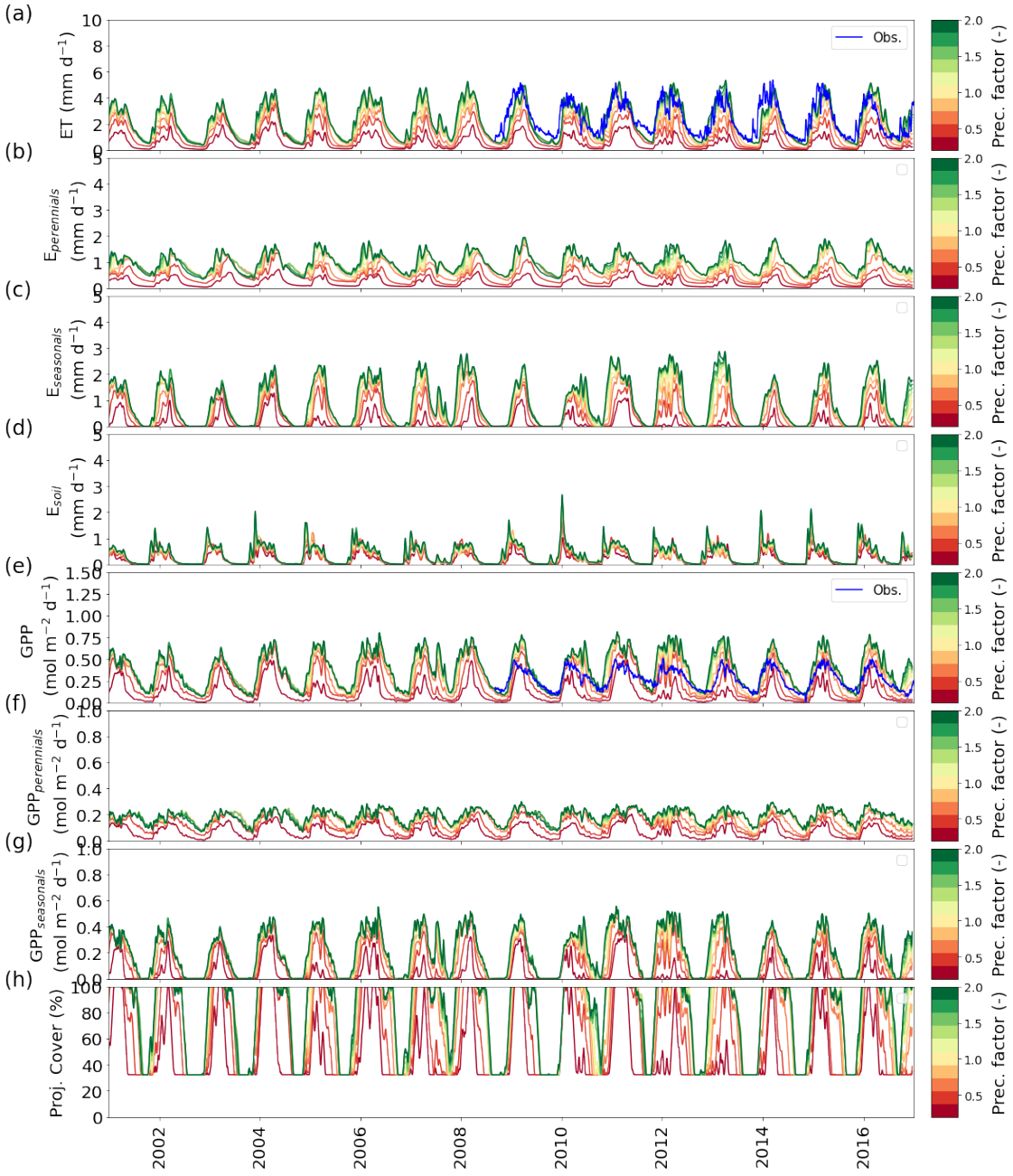

Figure S1.8. *Fluxes for Daly Uncleared from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

1.1.5 Sturt Plains

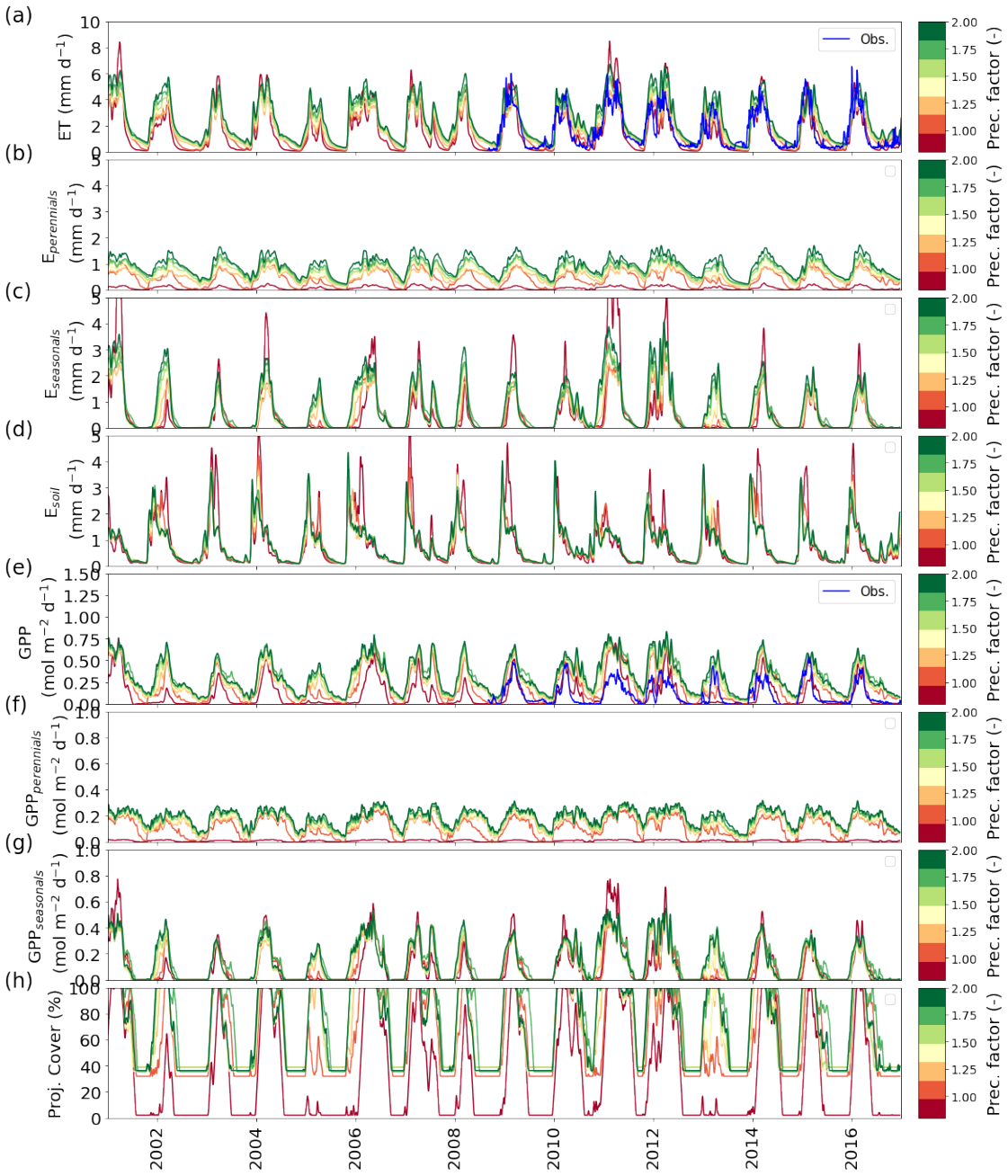

Figure S1.9. *Fluxes for Sturt Plains from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

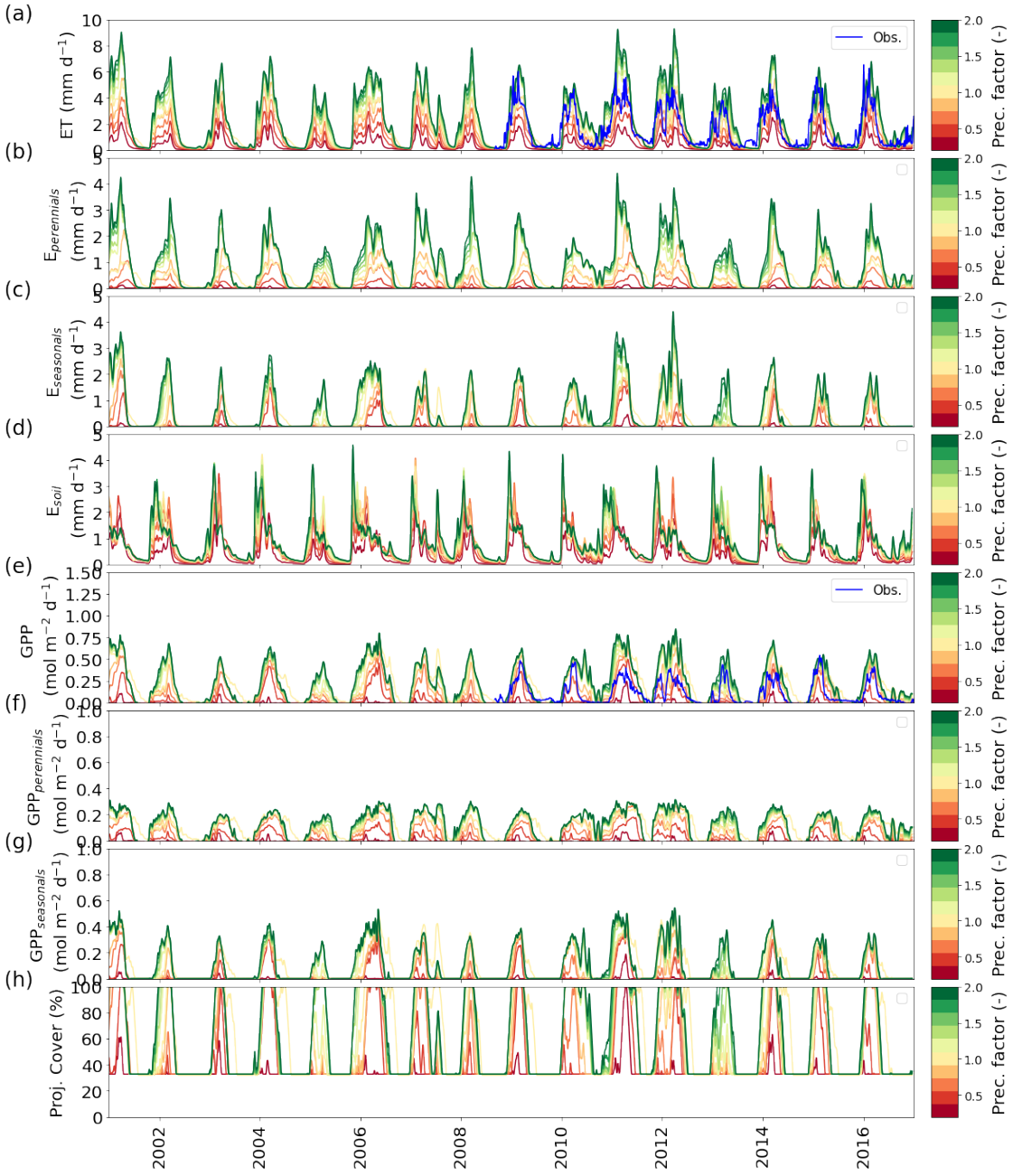

Figure S1.10. *Fluxes for Sturt Plains from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

1.2 Virtual points

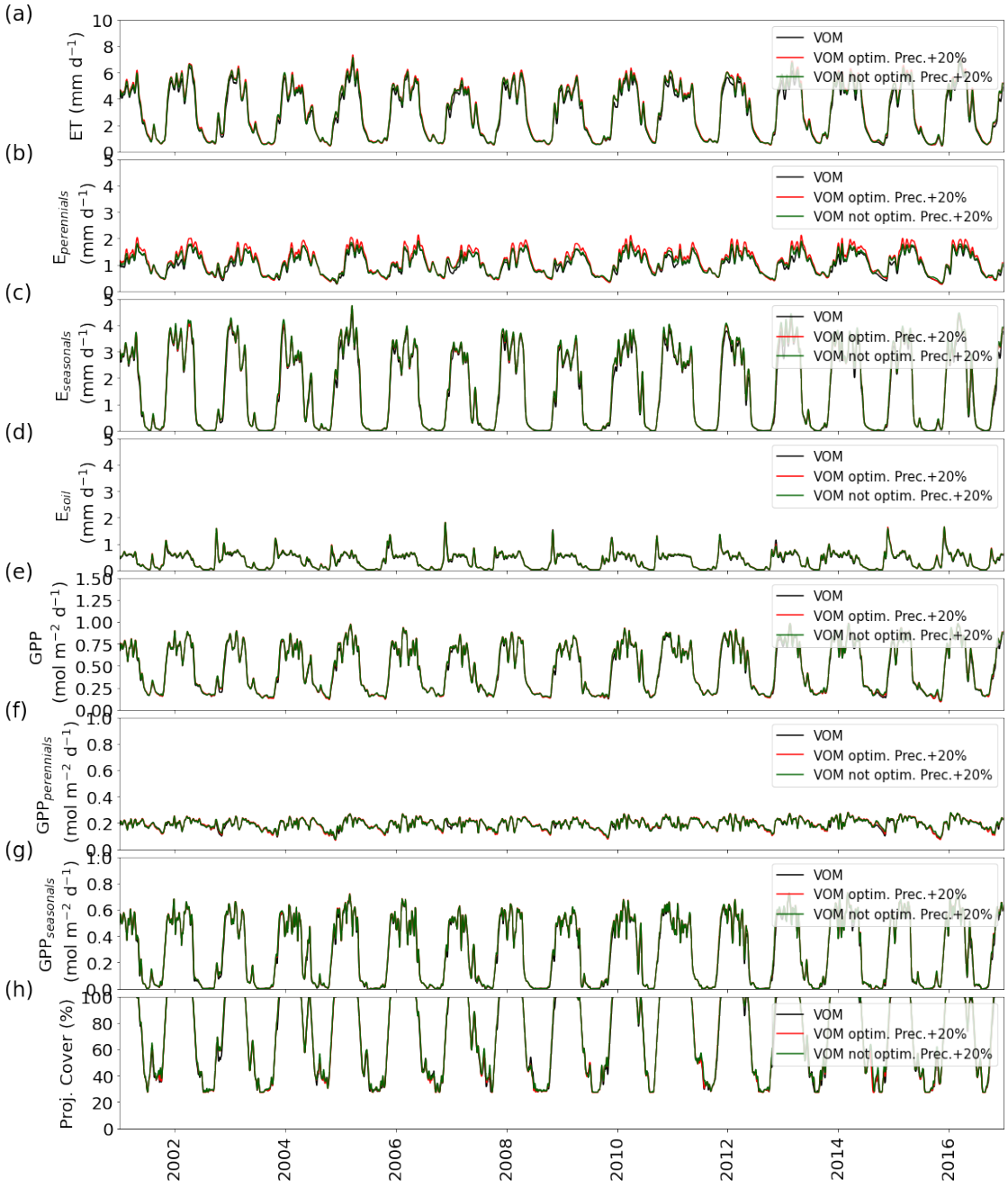

Figure S1.11. *Fluxes for point 12.5S,131.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

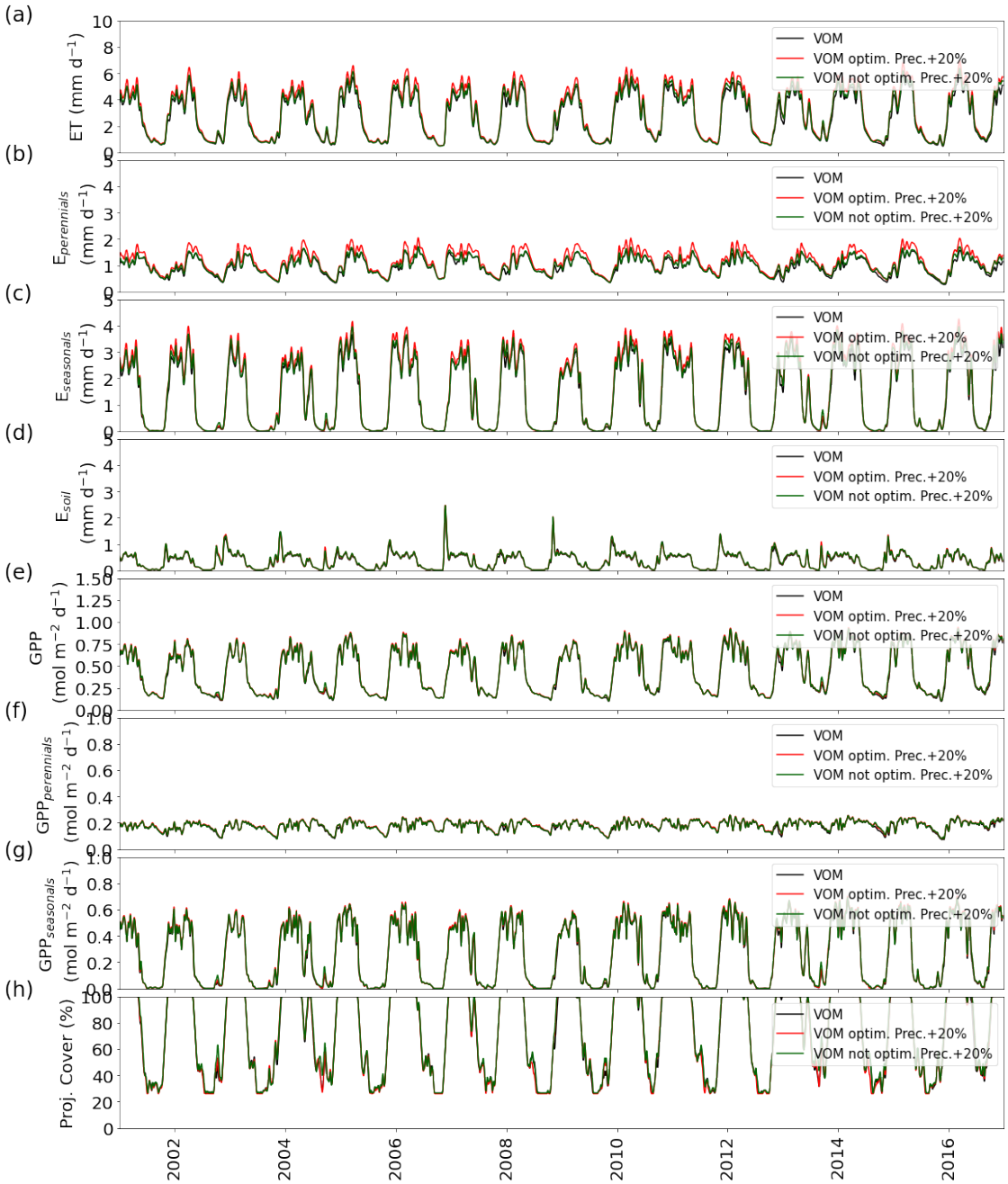

Figure S1.12. *Fluxes for point 12.5S,131.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

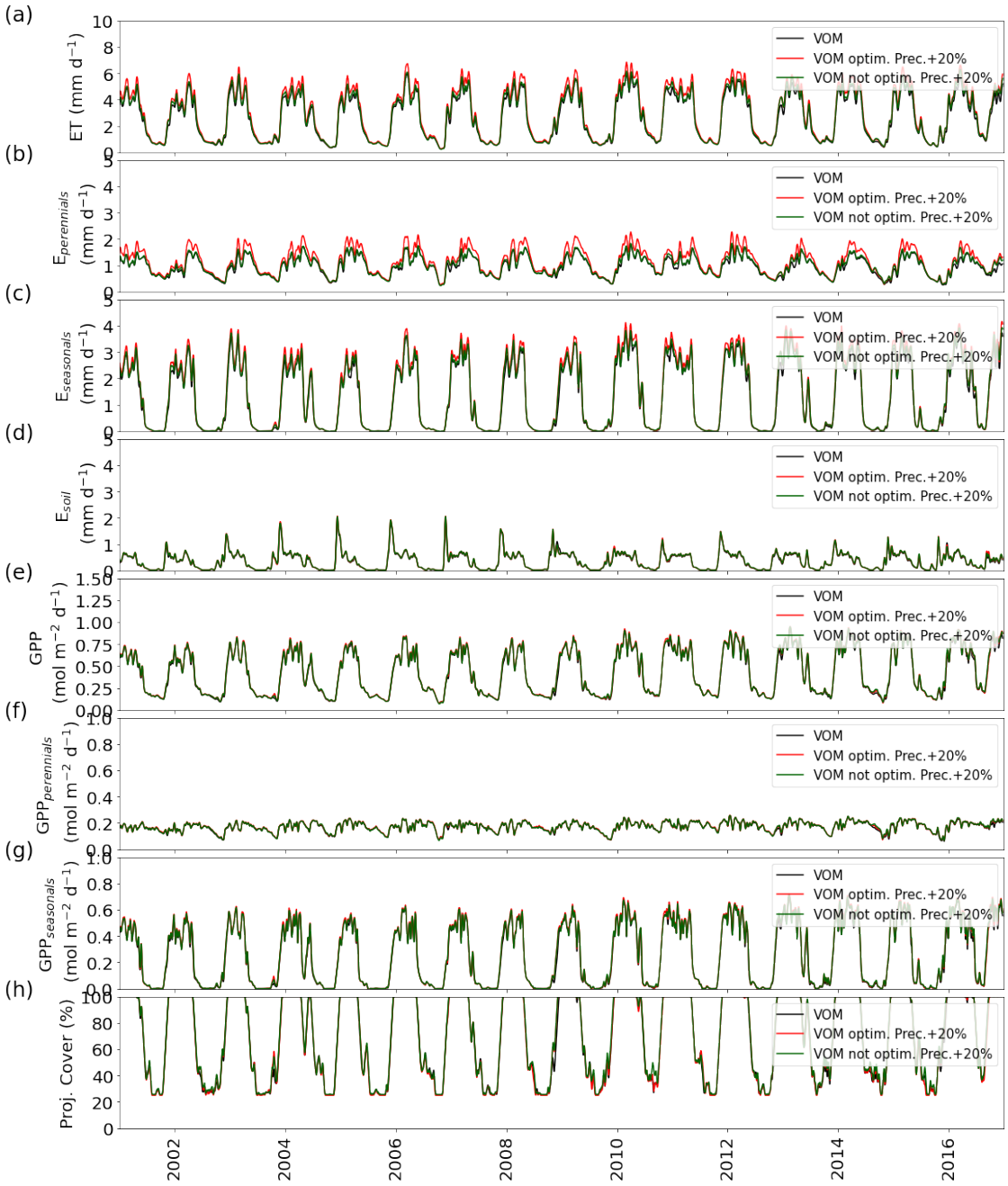

Figure S1.13. *Fluxes for point 12.5S,132.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

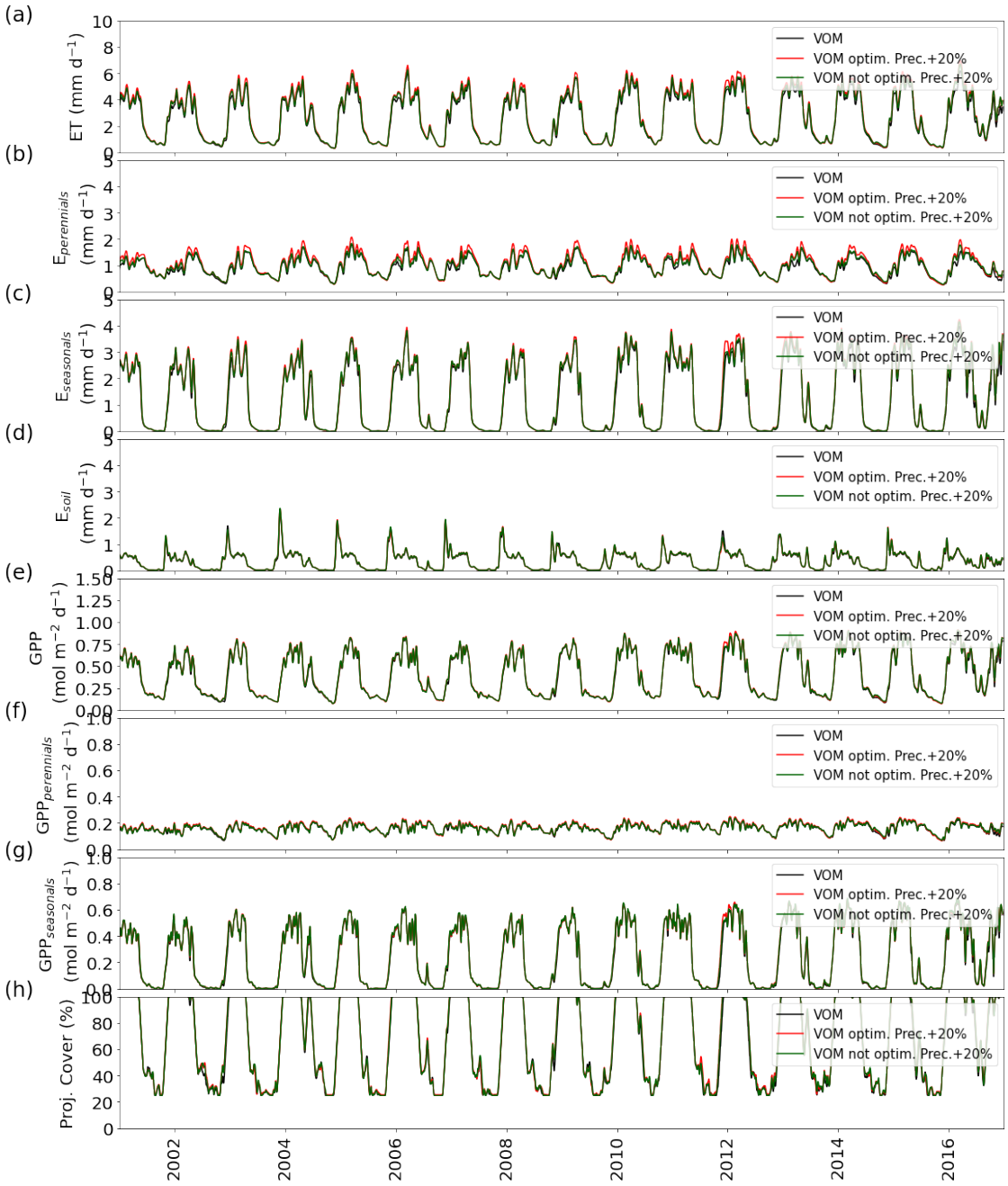

Figure S1.14. *Fluxes for point 12.5S,132.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

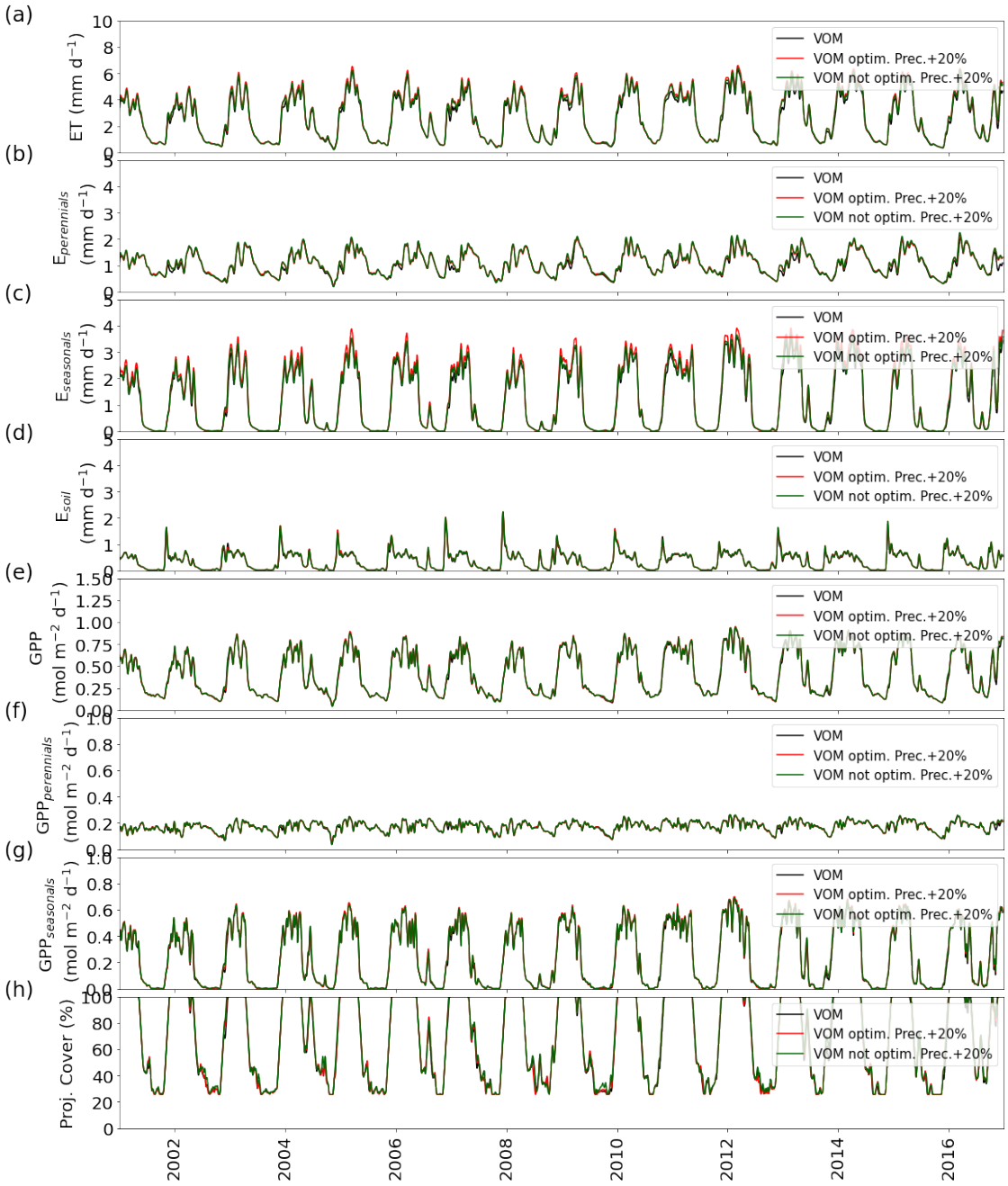

Figure S1.15. *Fluxes for point 12.5S,133.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

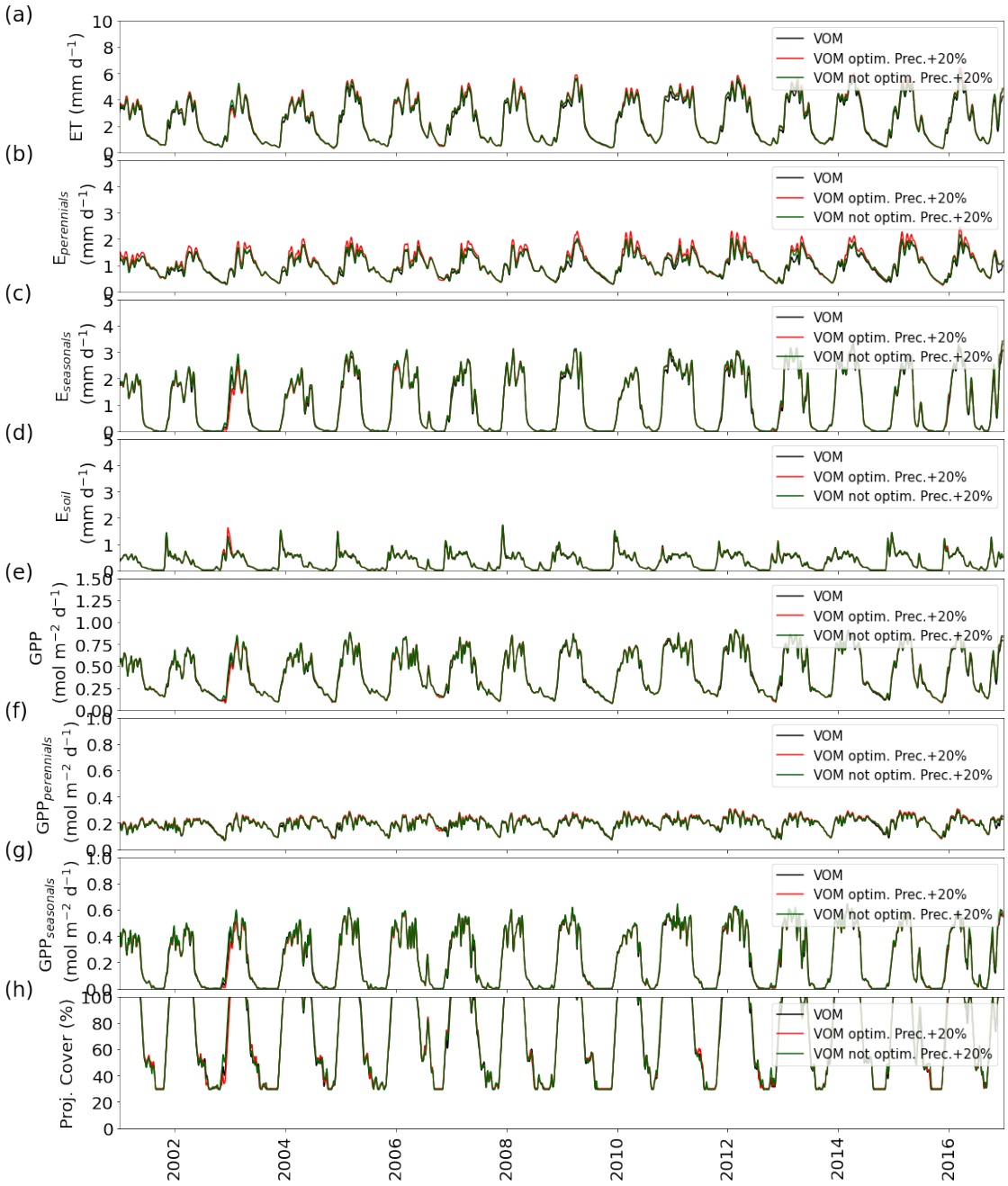

Figure S1.16. *Fluxes for point 12.5S,133.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

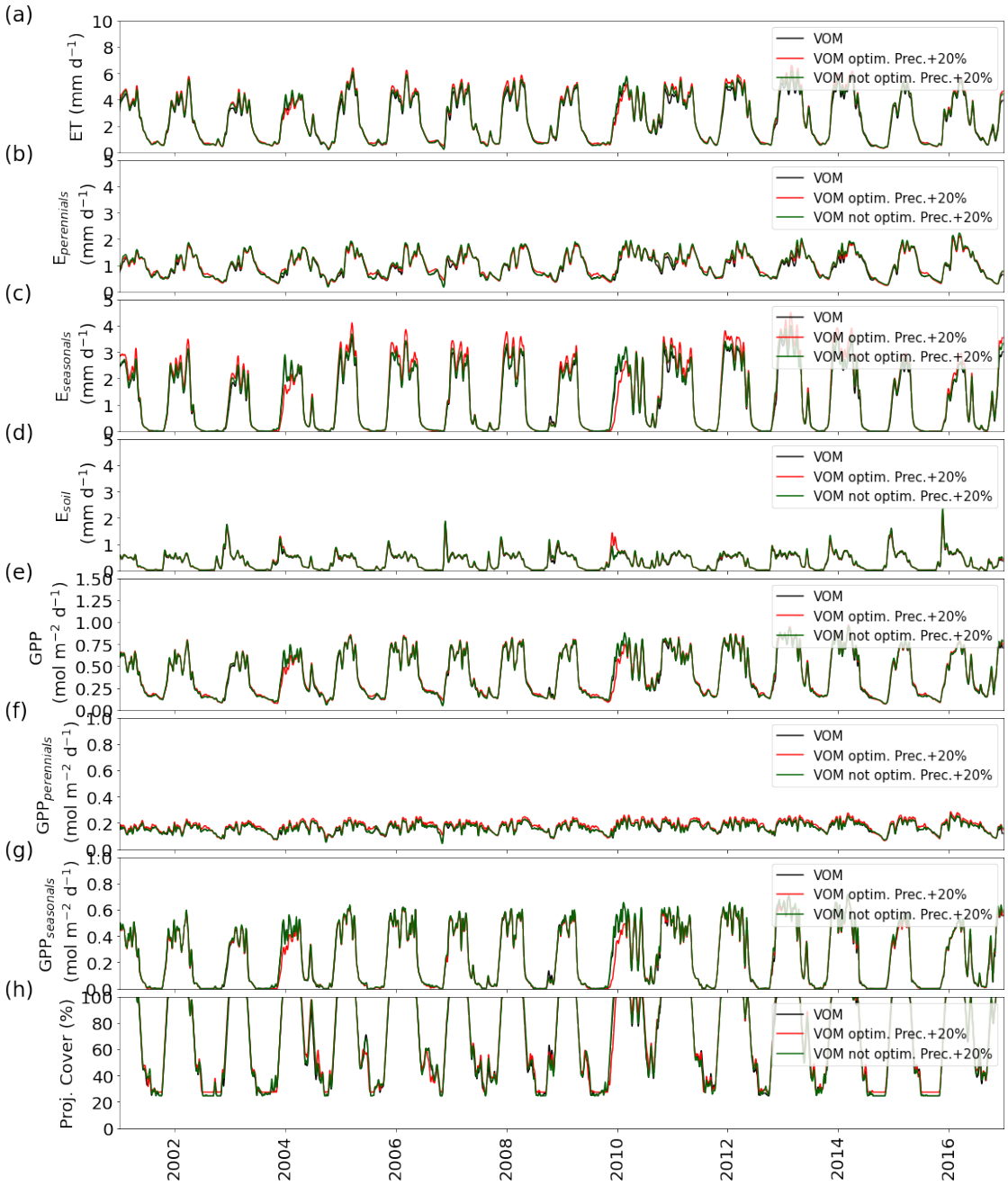

Figure S1.17. *Fluxes for point 13.5S,131.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

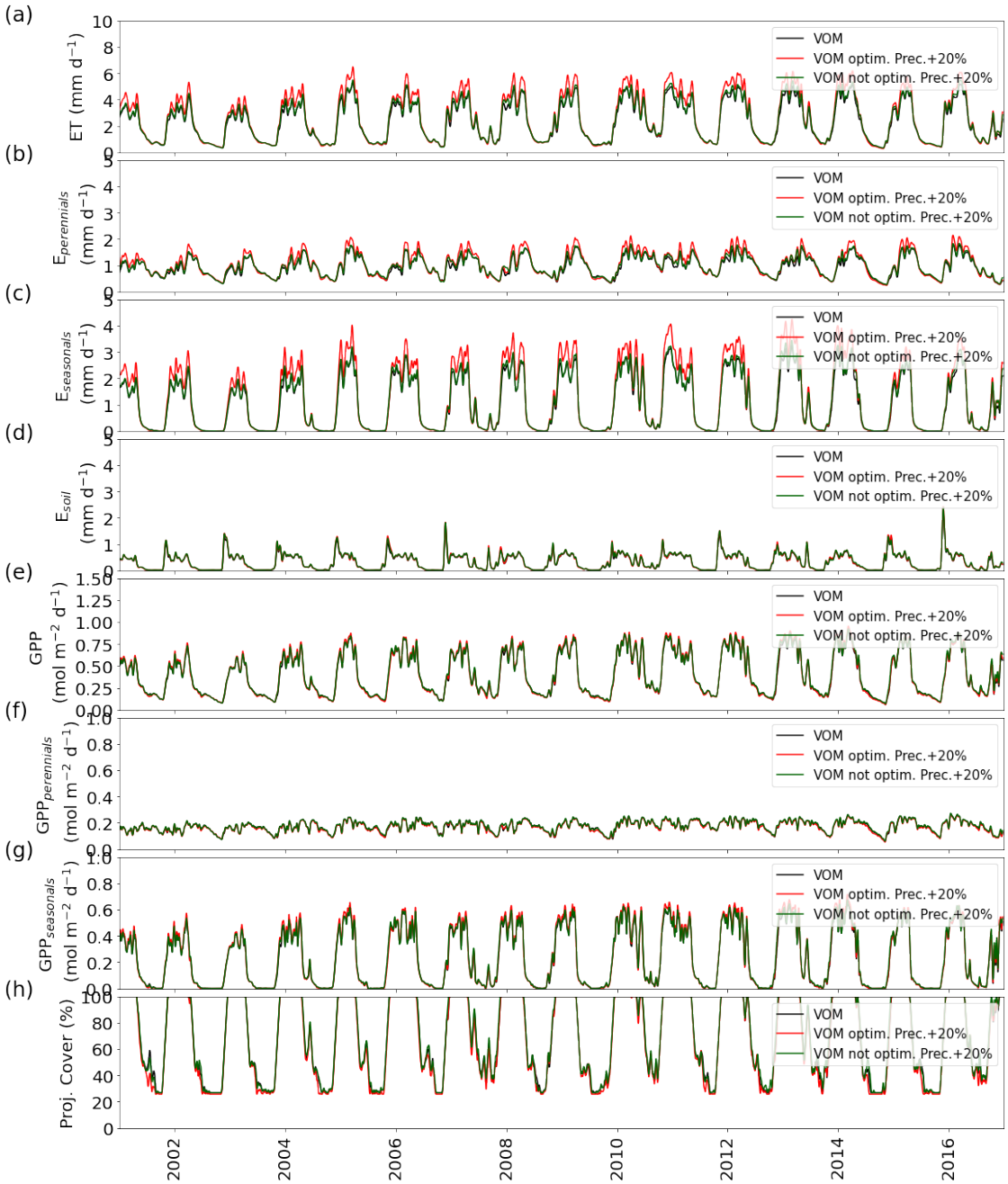

Figure S1.18. *Fluxes for point 13.5S,131.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

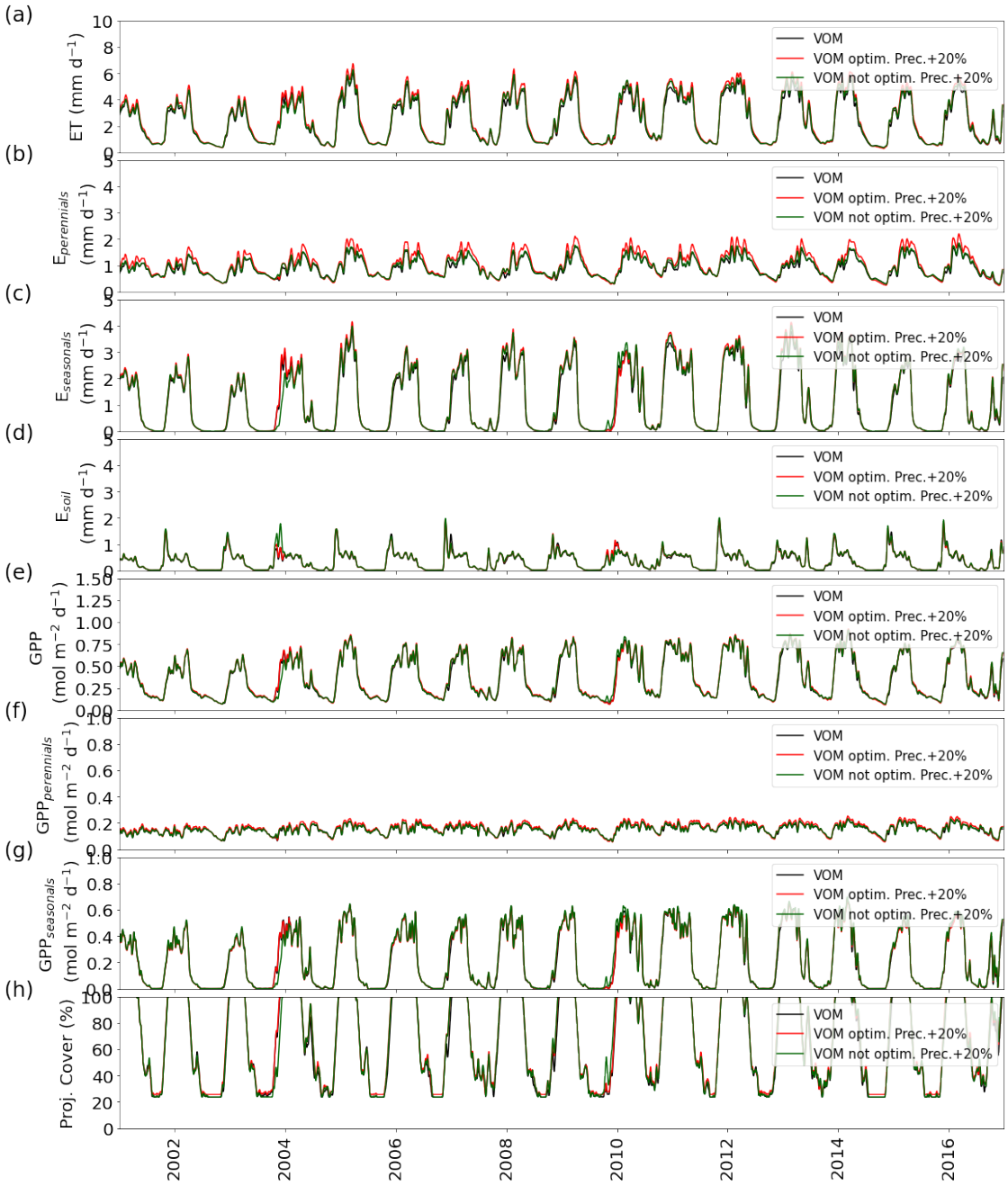

Figure S1.19. *Fluxes for point 13.5S,132.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

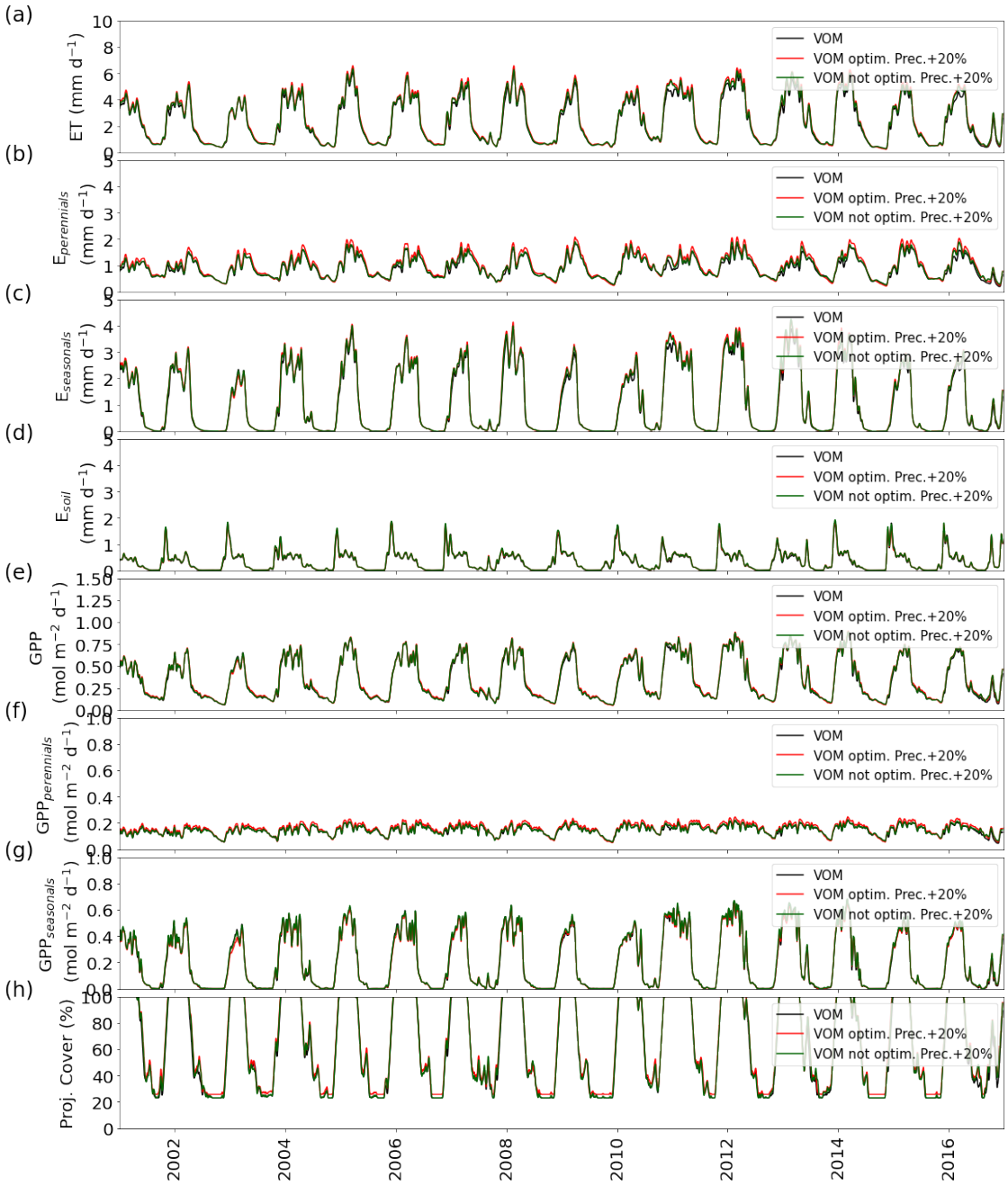

Figure S1.20. *Fluxes for point 13.5S,132.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

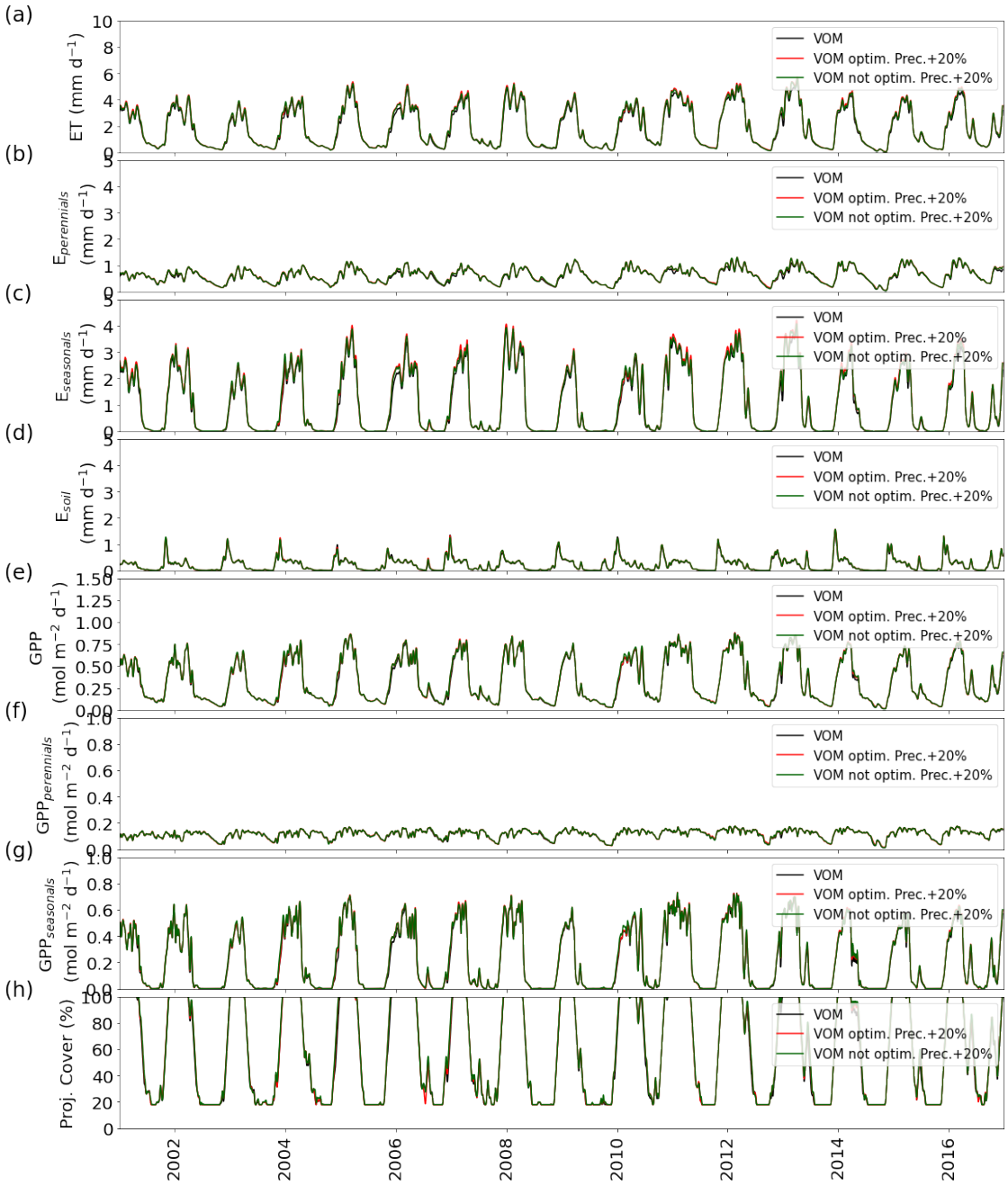

Figure S1.21. *Fluxes for point 13.5S,133.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

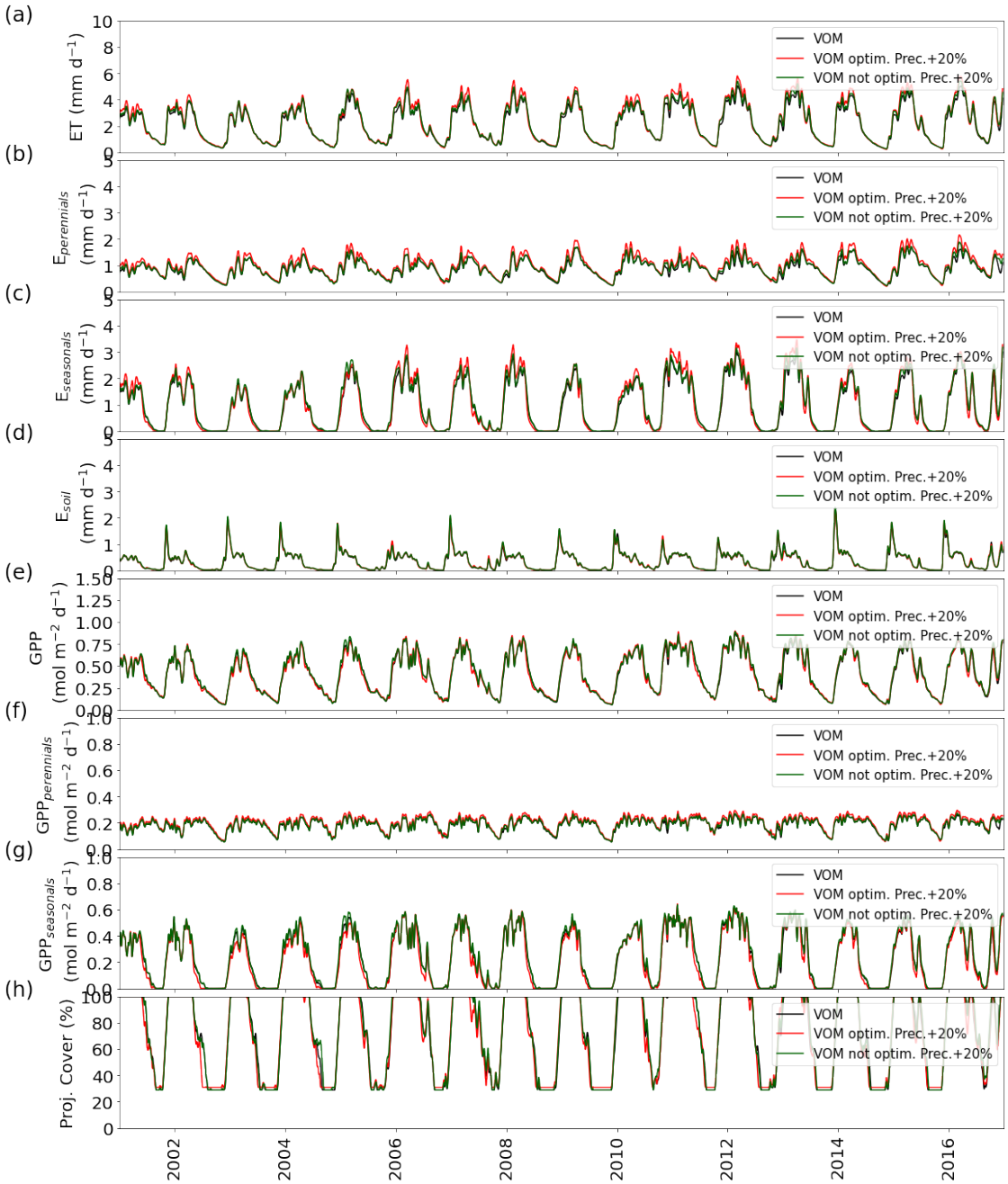

Figure S1.22. *Fluxes for point 13.5S,133.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

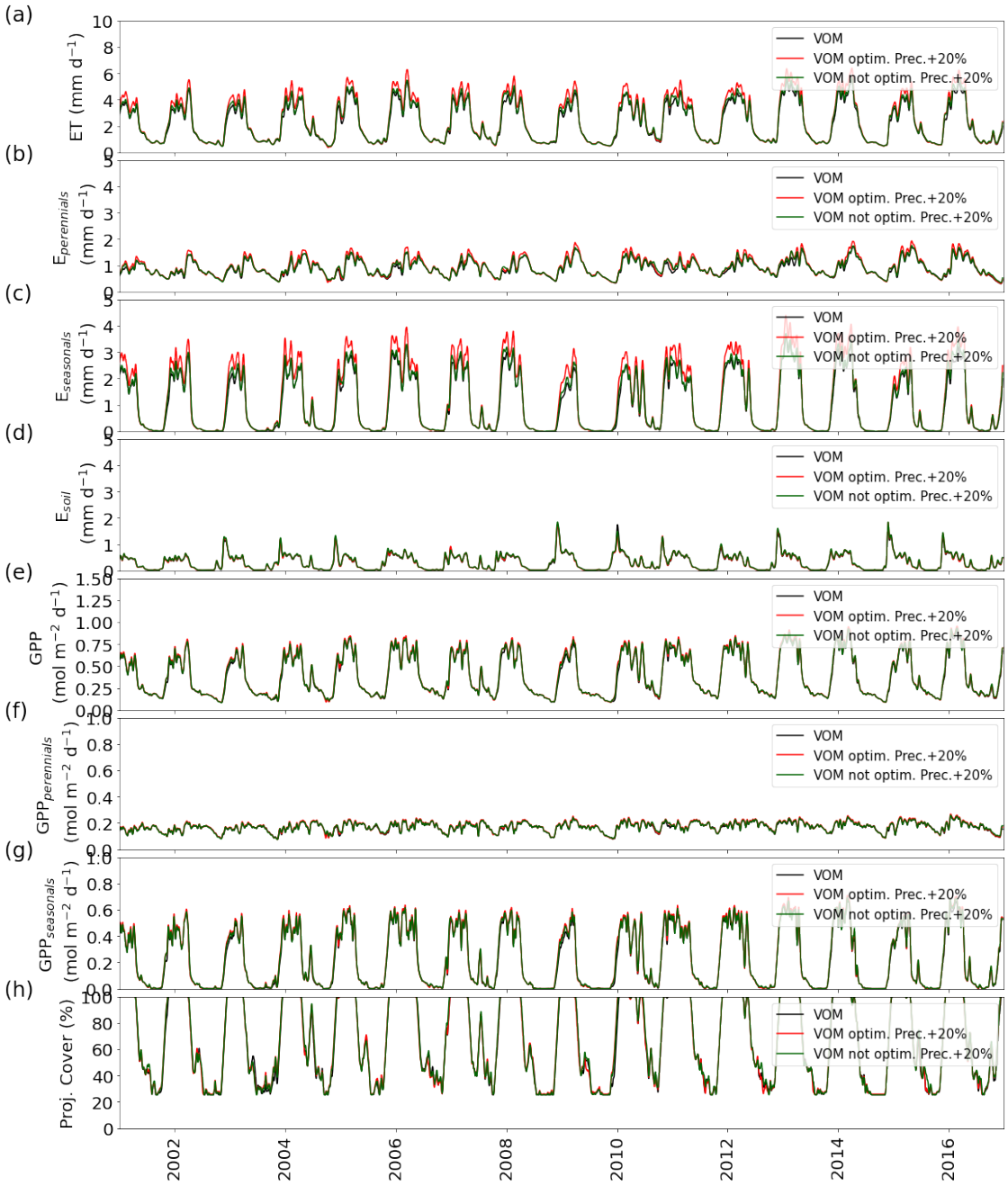

Figure S1.23. *Fluxes for point 14.5S,131.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

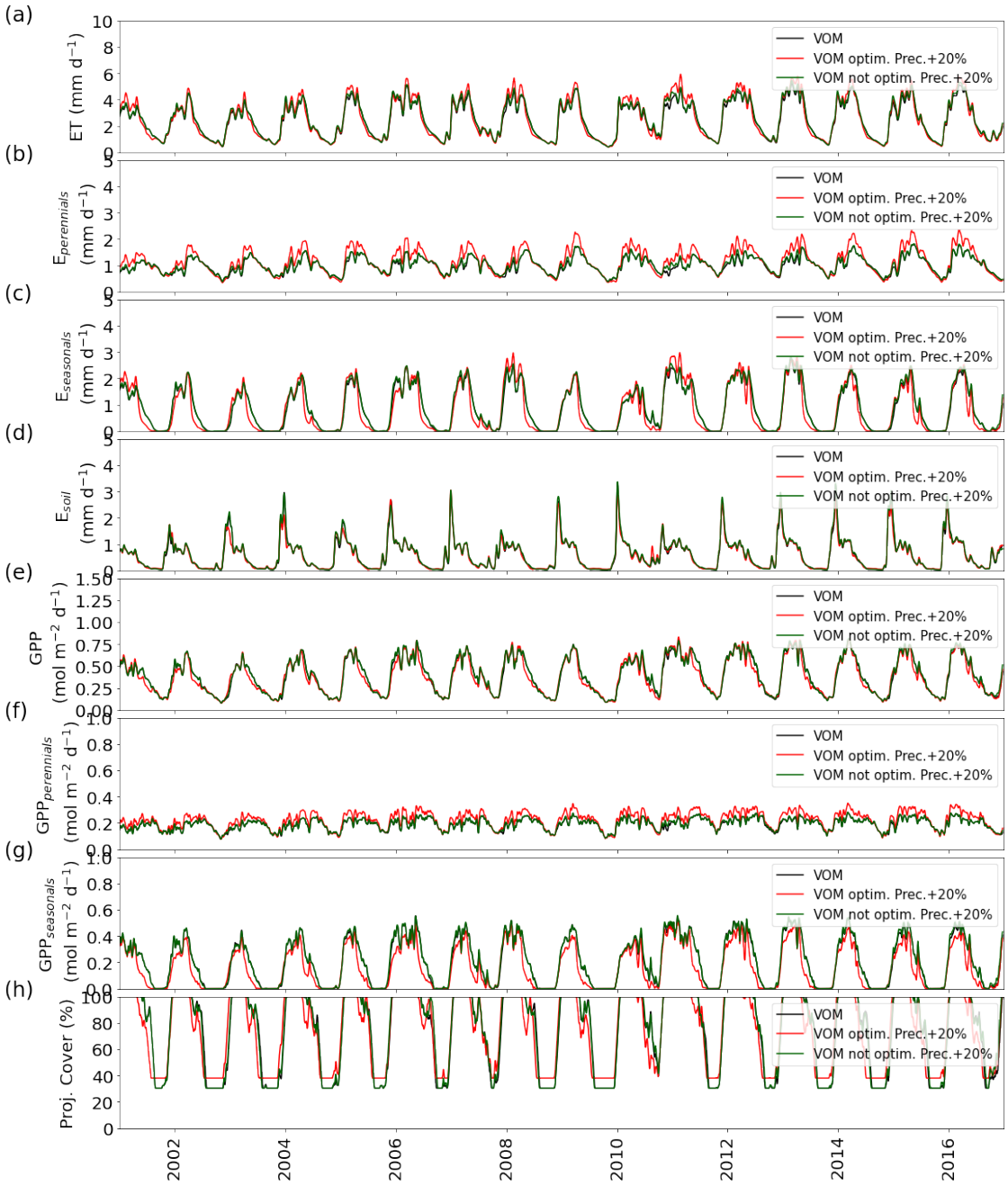

Figure S1.24. *Fluxes for point 14.5S,131.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

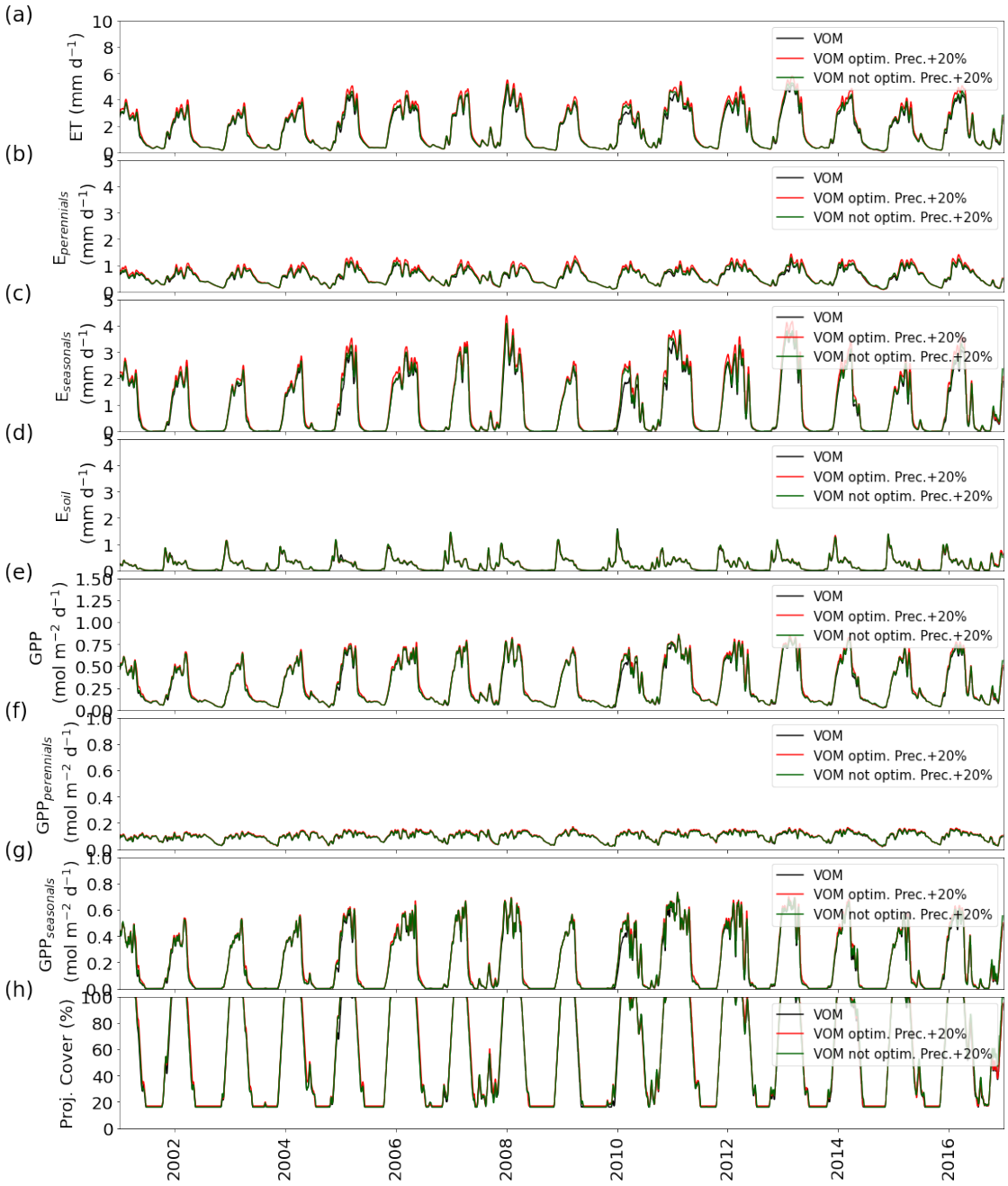

Figure S1.25. *Fluxes for point 14.5S,132.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

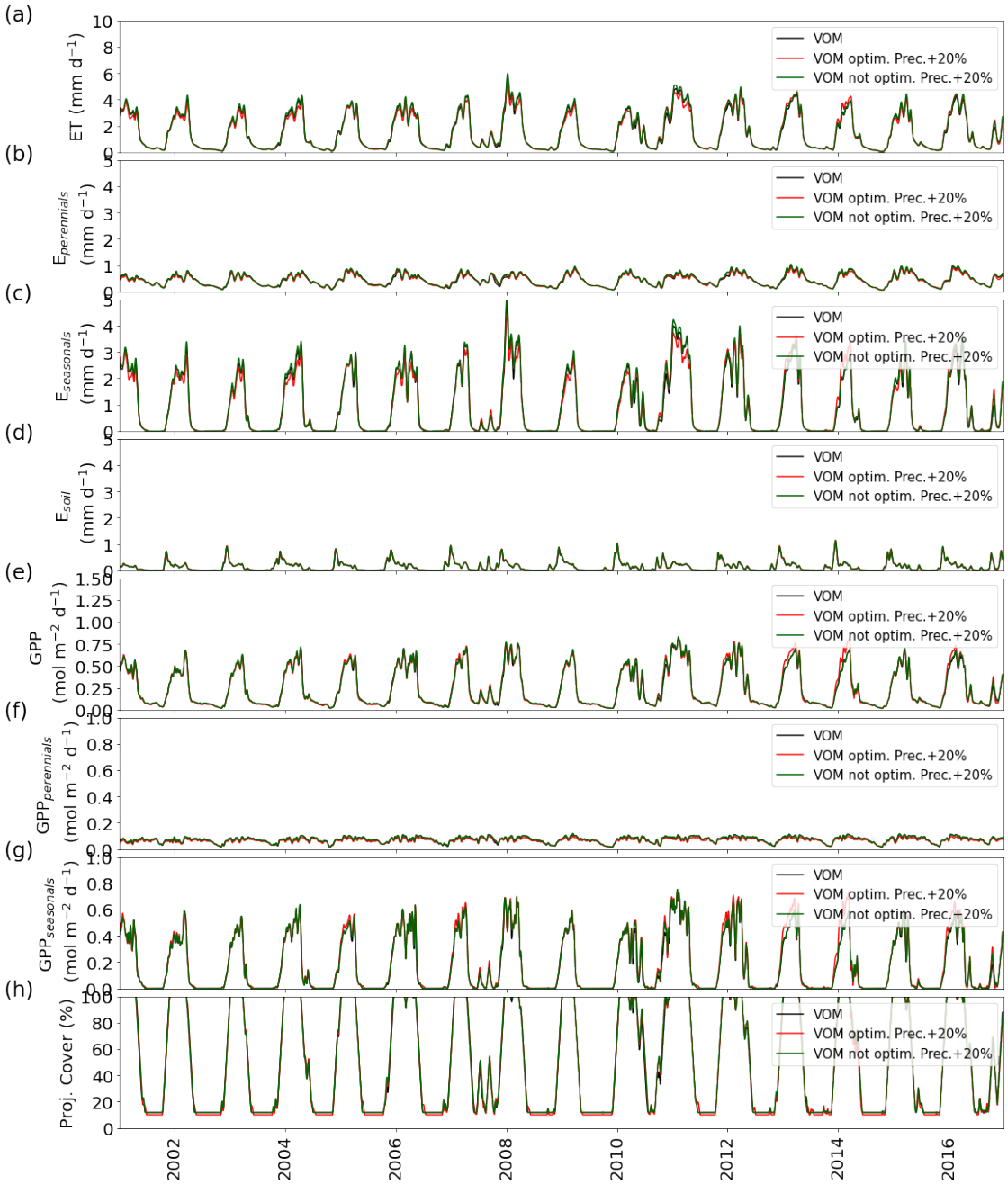

Figure S1.26. *Fluxes for point 14.5S,132.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

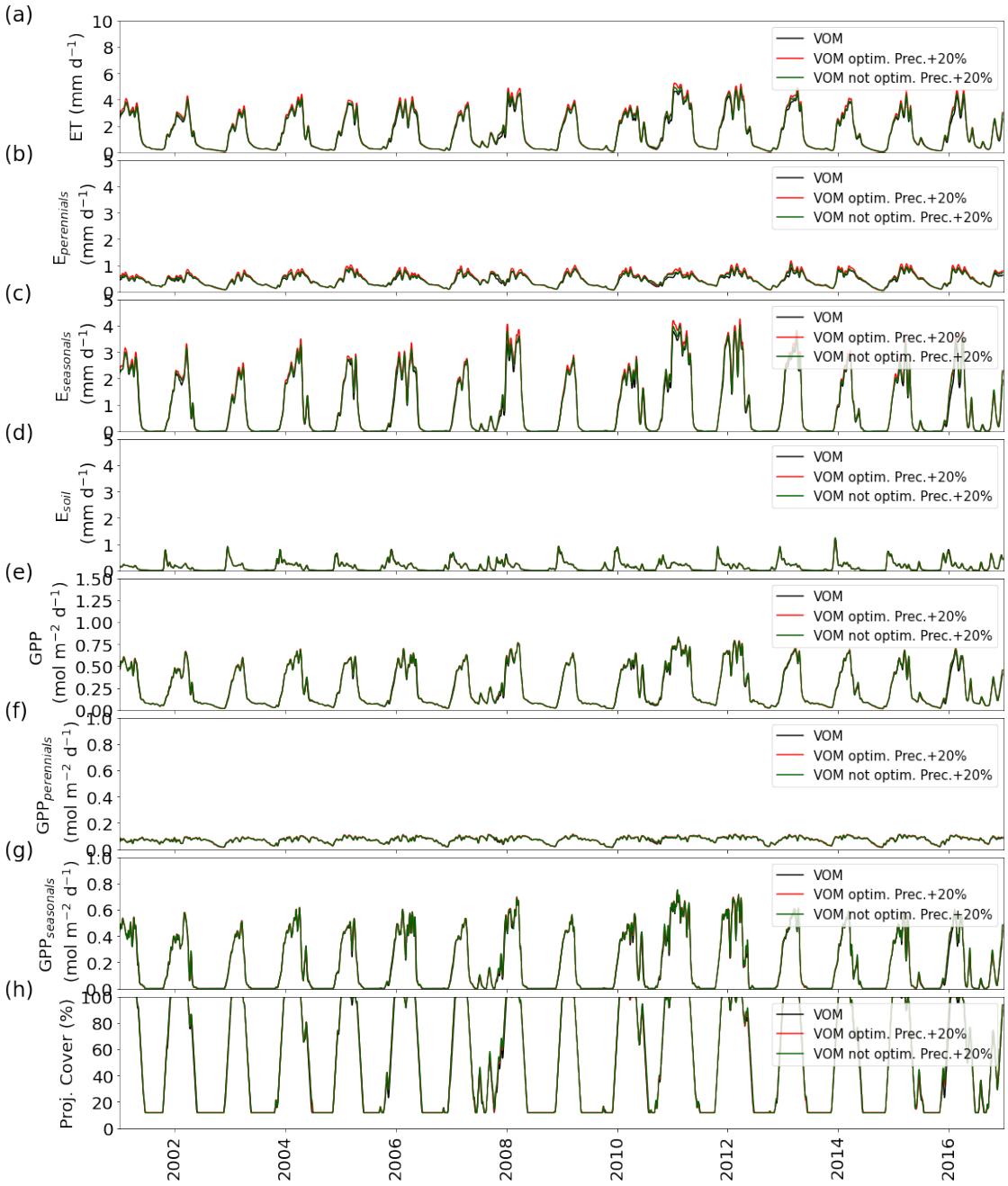

Figure S1.27. *Fluxes for point 14.5S,133.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

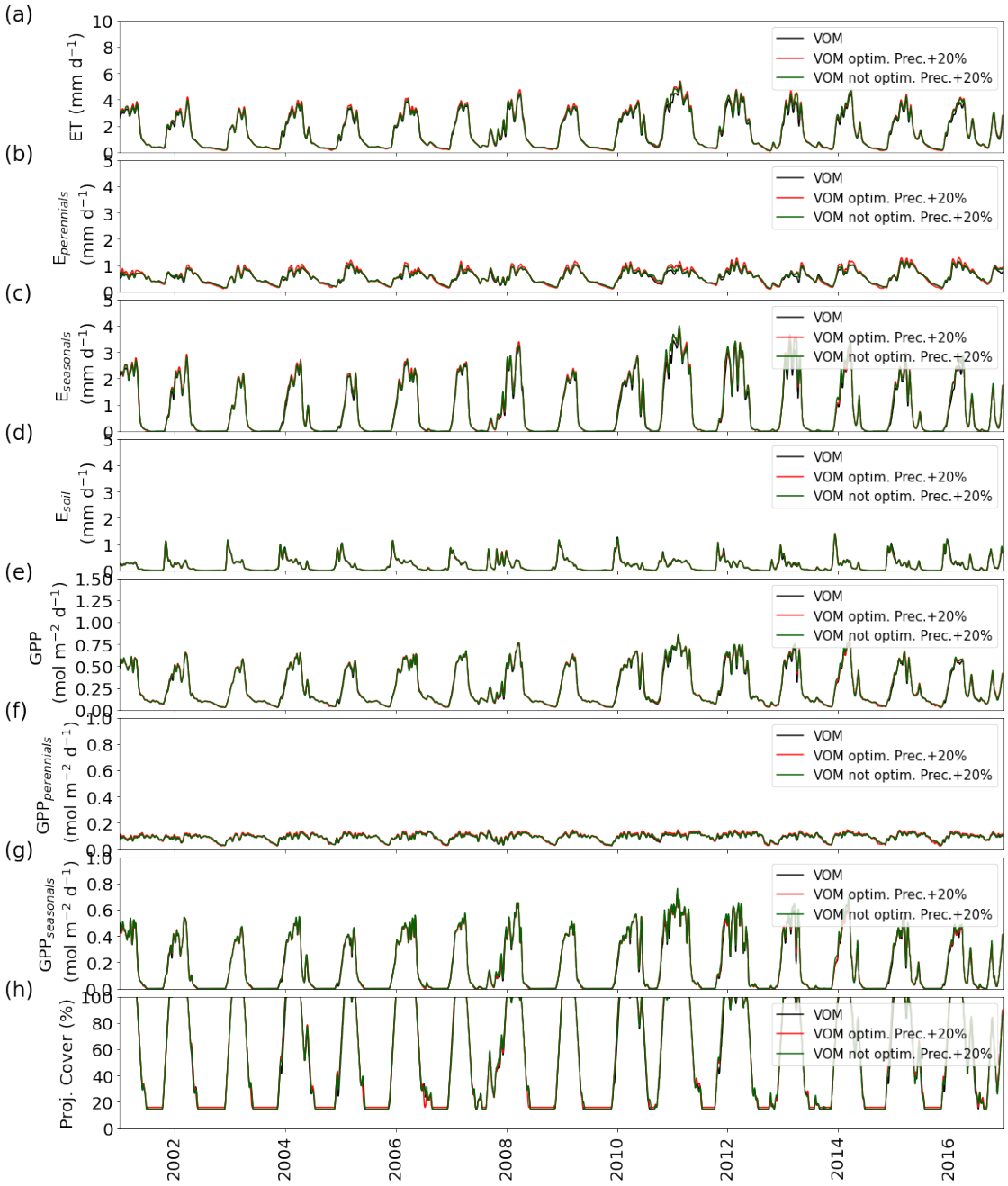

Figure S1.28. *Fluxes for point 14.5S,133.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

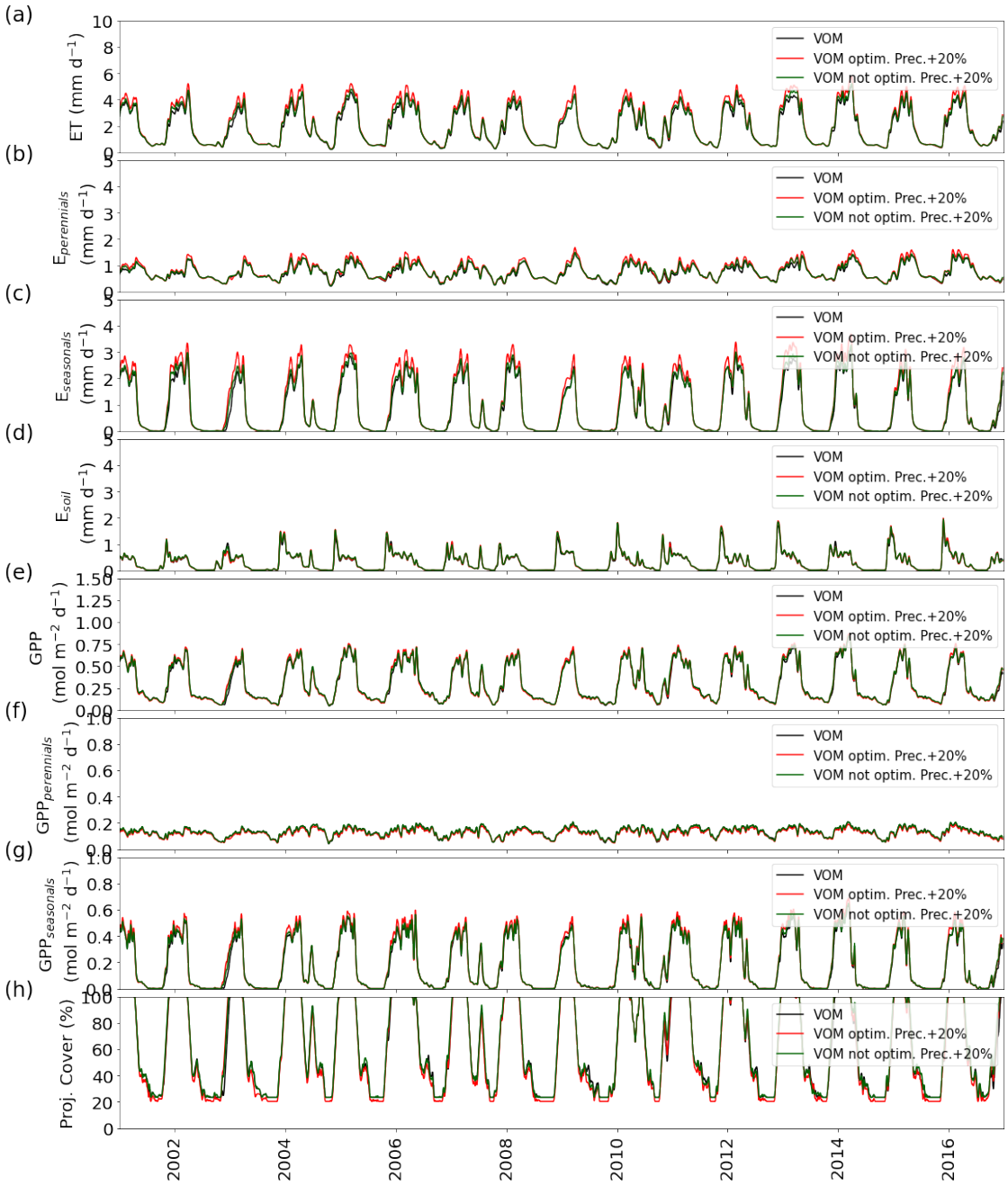

Figure S1.29. *Fluxes for point 15.5S,131.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

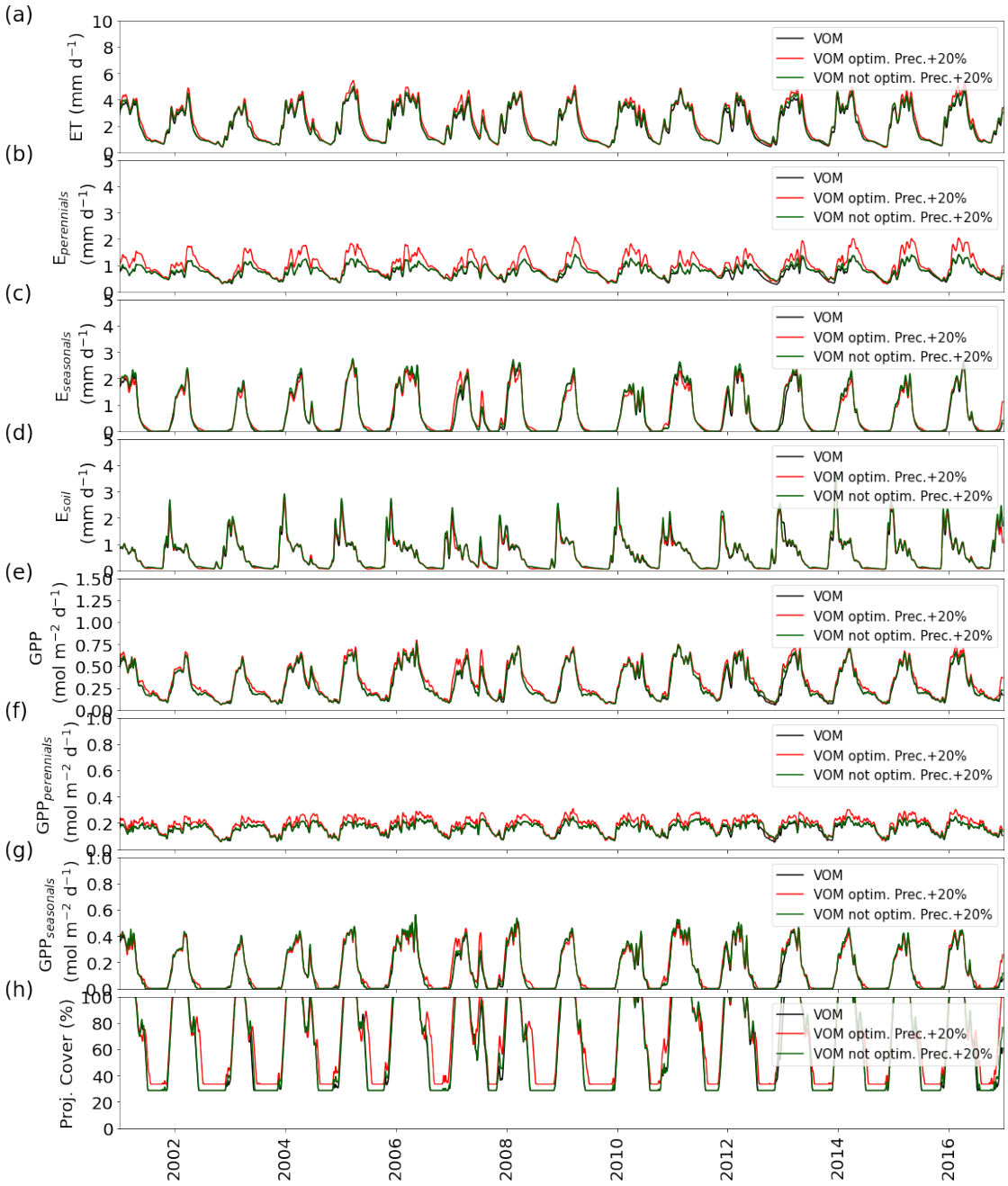

Figure S1.30. *Fluxes for point 15.5S,131.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

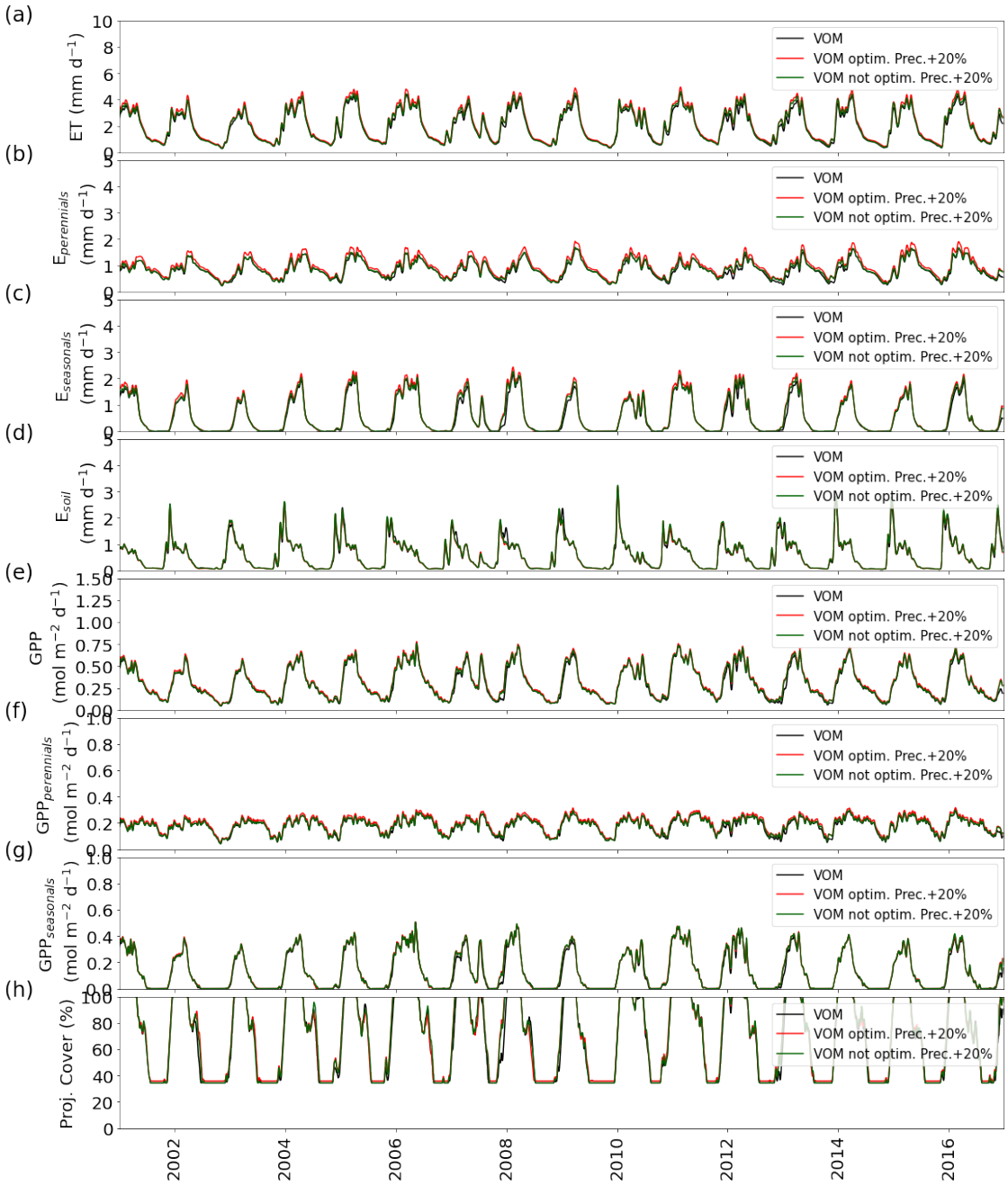

Figure S1.31. *Fluxes for point 15.5S,132.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

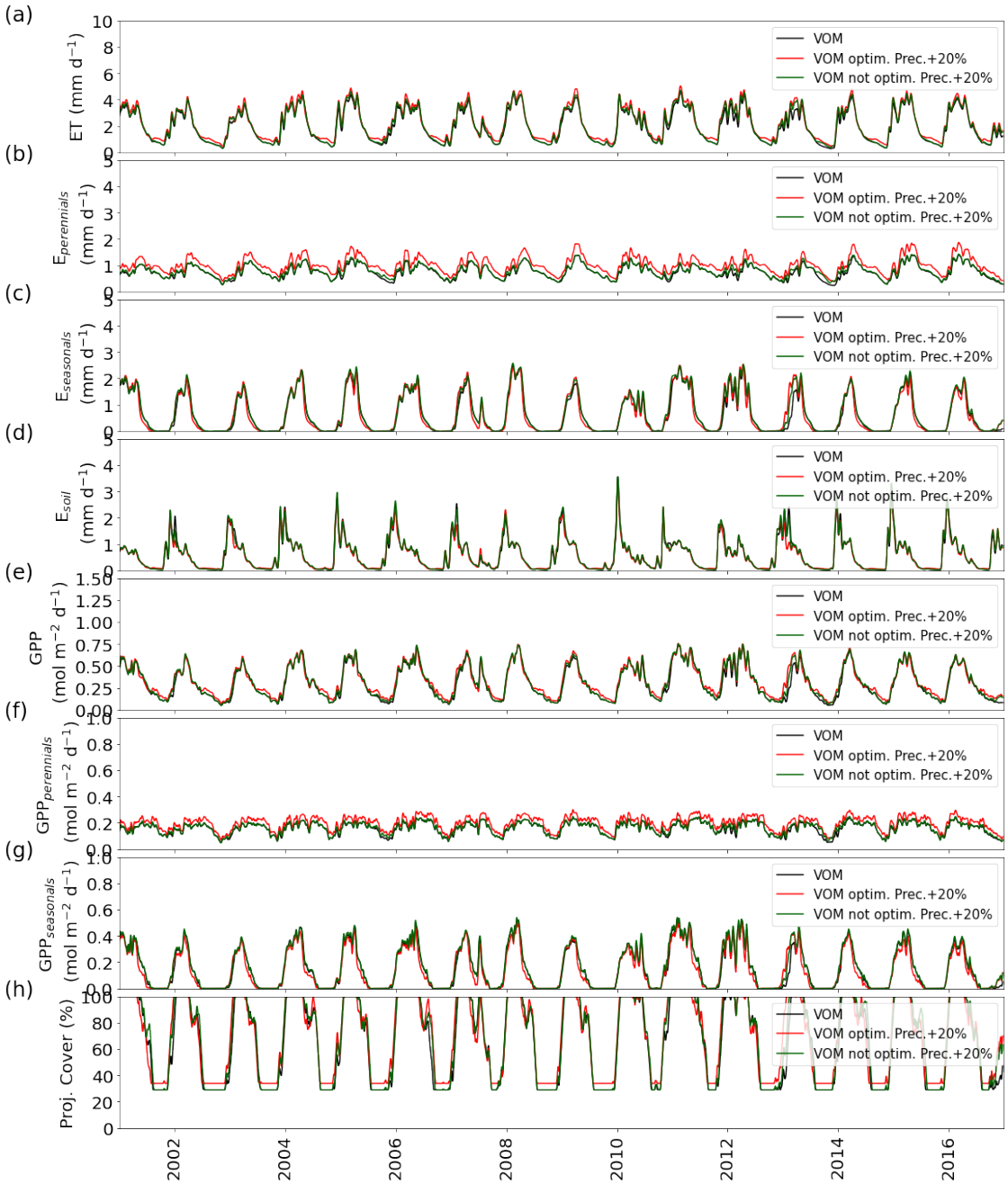

Figure S1.32. *Fluxes for point 15.5S,132.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

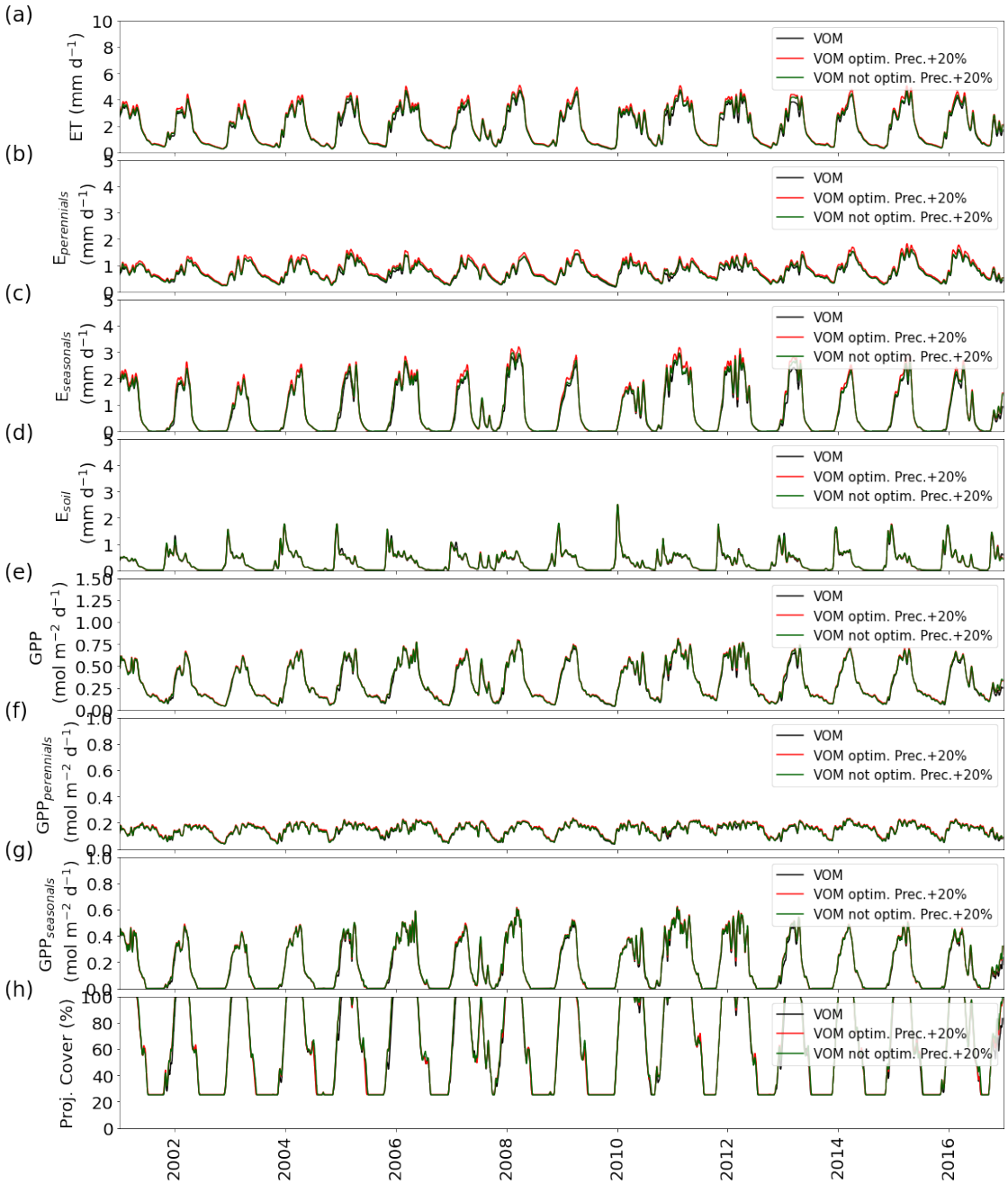

Figure S1.33. *Fluxes for point 15.5S,133.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

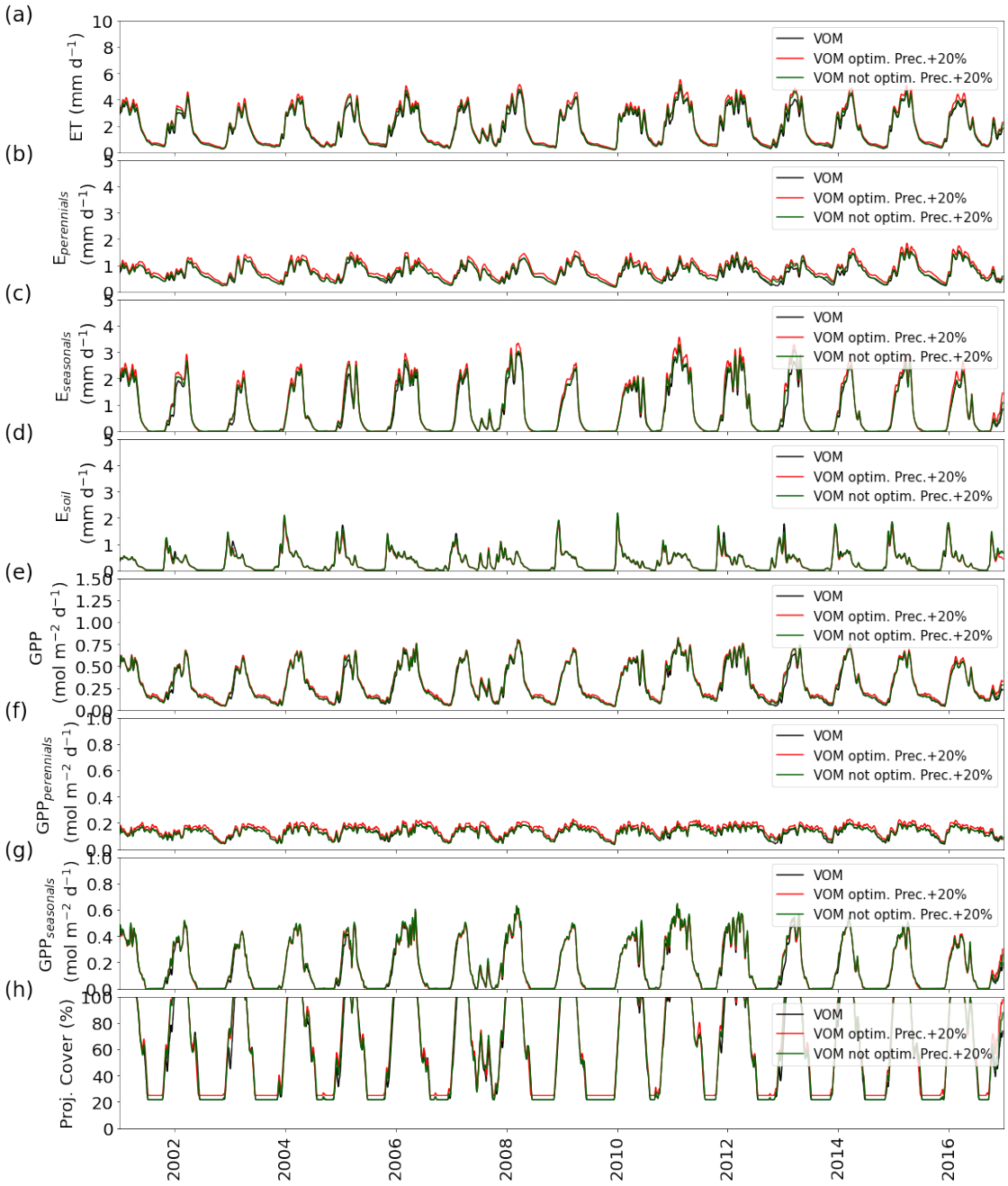

Figure S1.34. *Fluxes for point 15.5S,133.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

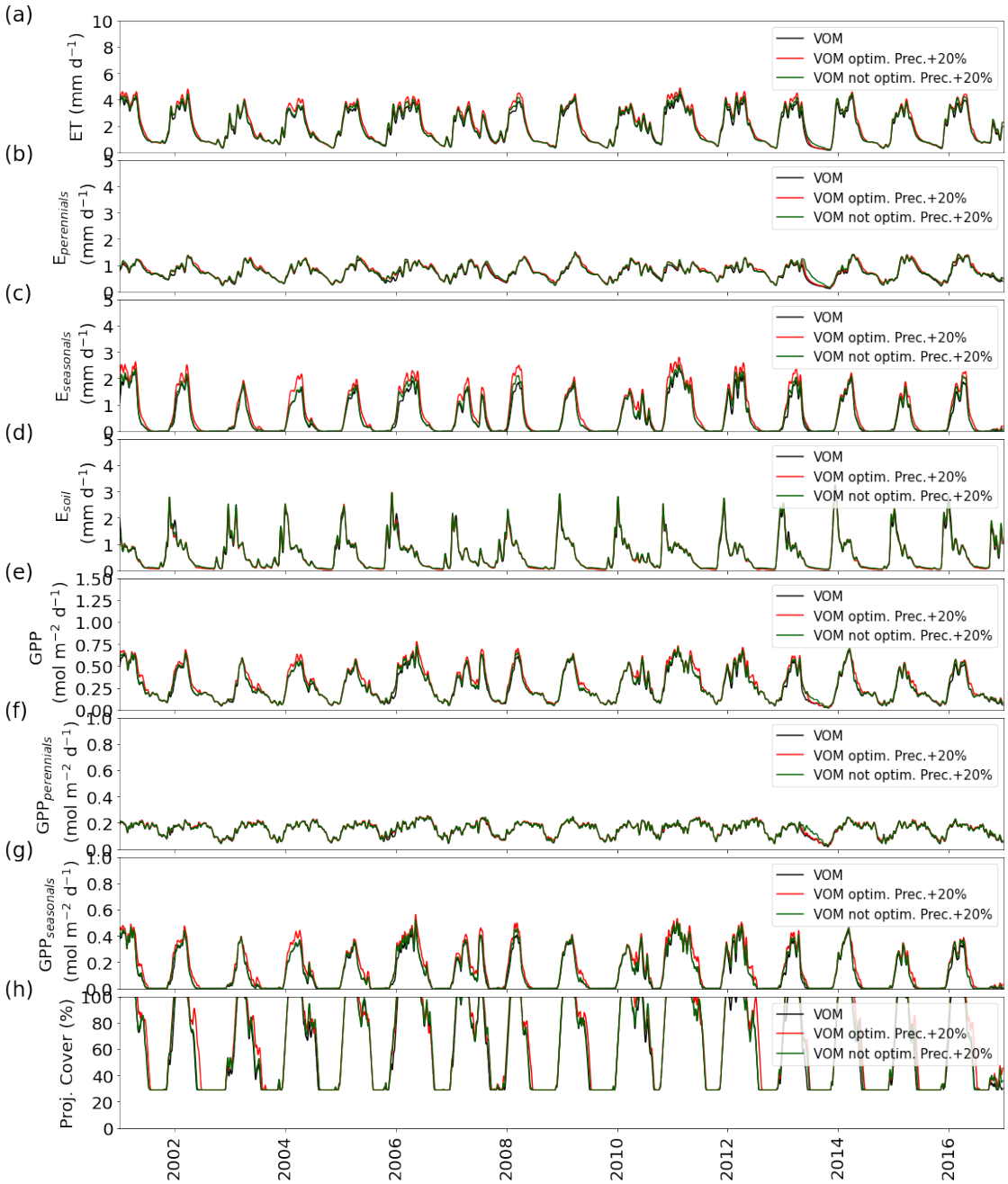

Figure S1.35. *Fluxes for point 16.5S,131.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

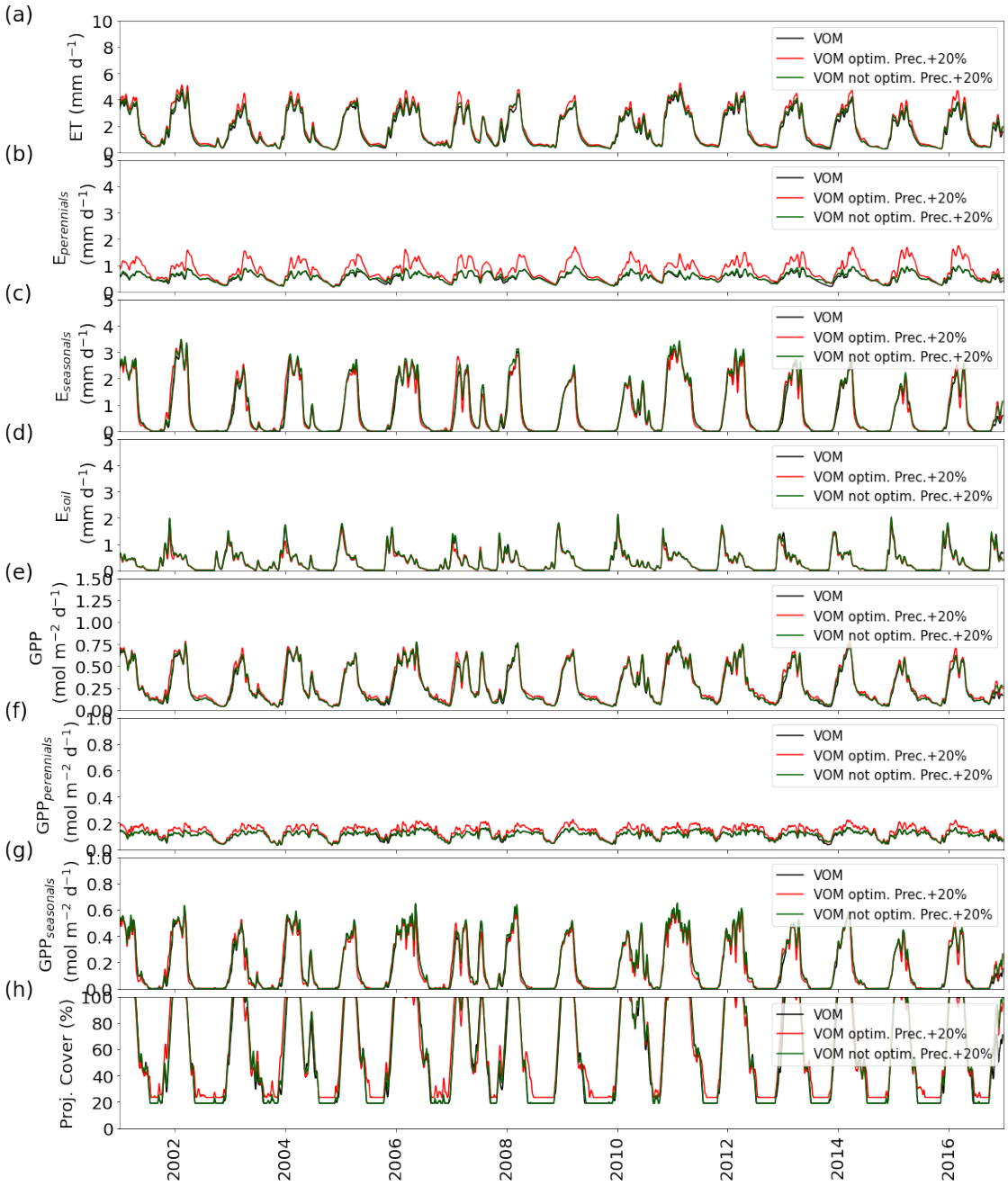

Figure S1.36. *Fluxes for point 16.5S,131.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

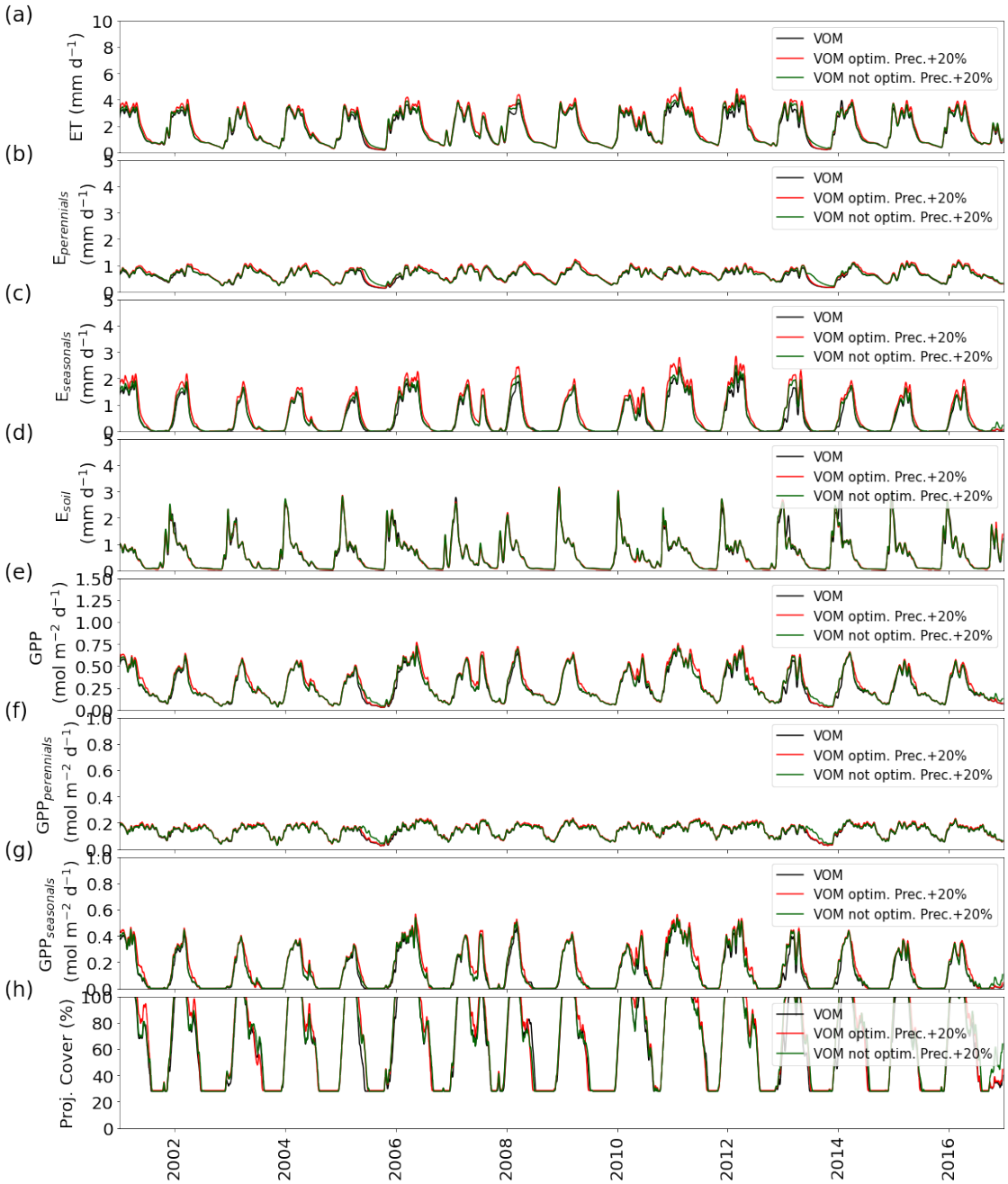

Figure S1.37. *Fluxes for point 16.5S,132.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

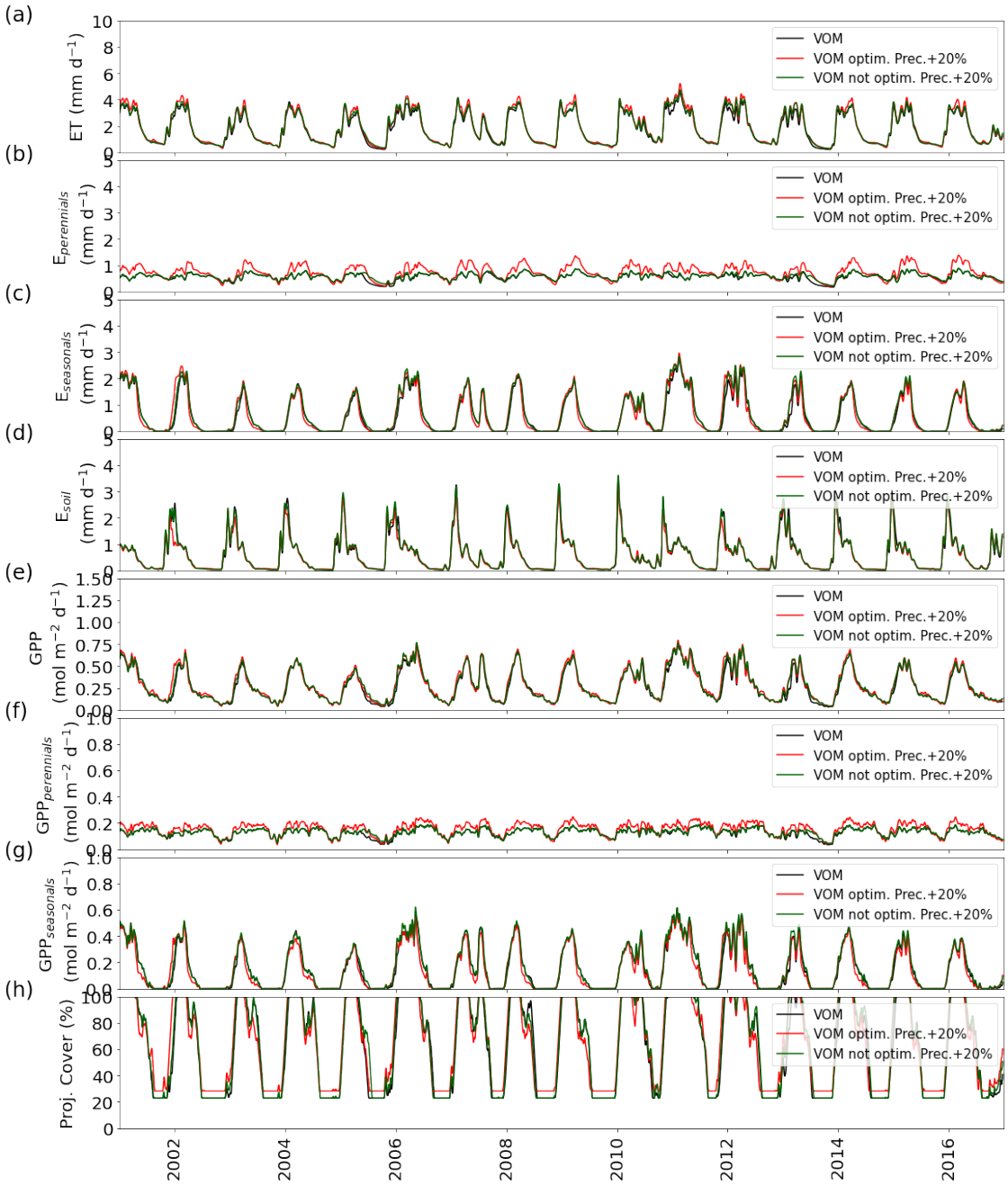

Figure S1.38. *Fluxes for point 16.5S,132.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

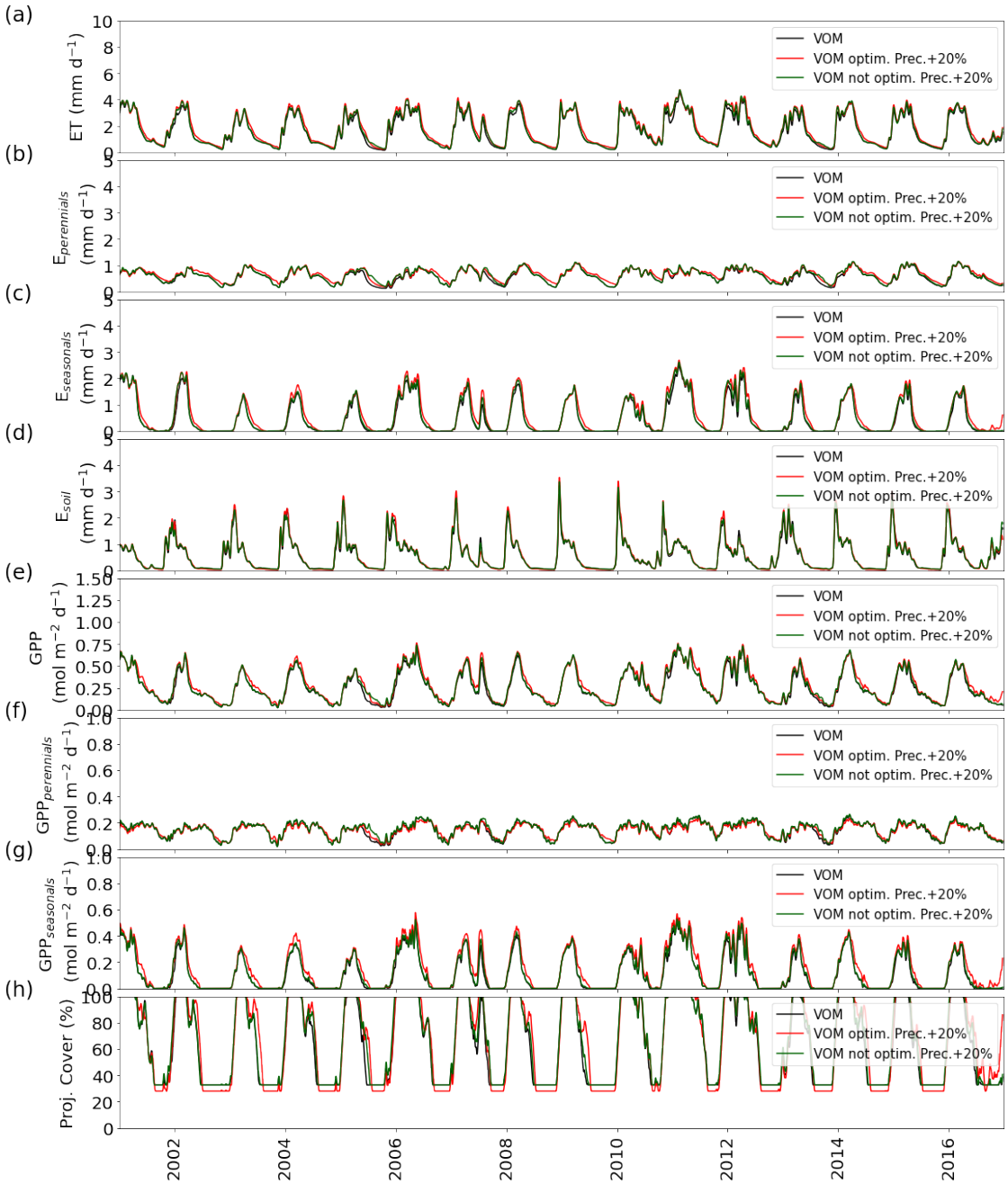

Figure S1.39. *Fluxes for point 16.5S,133.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

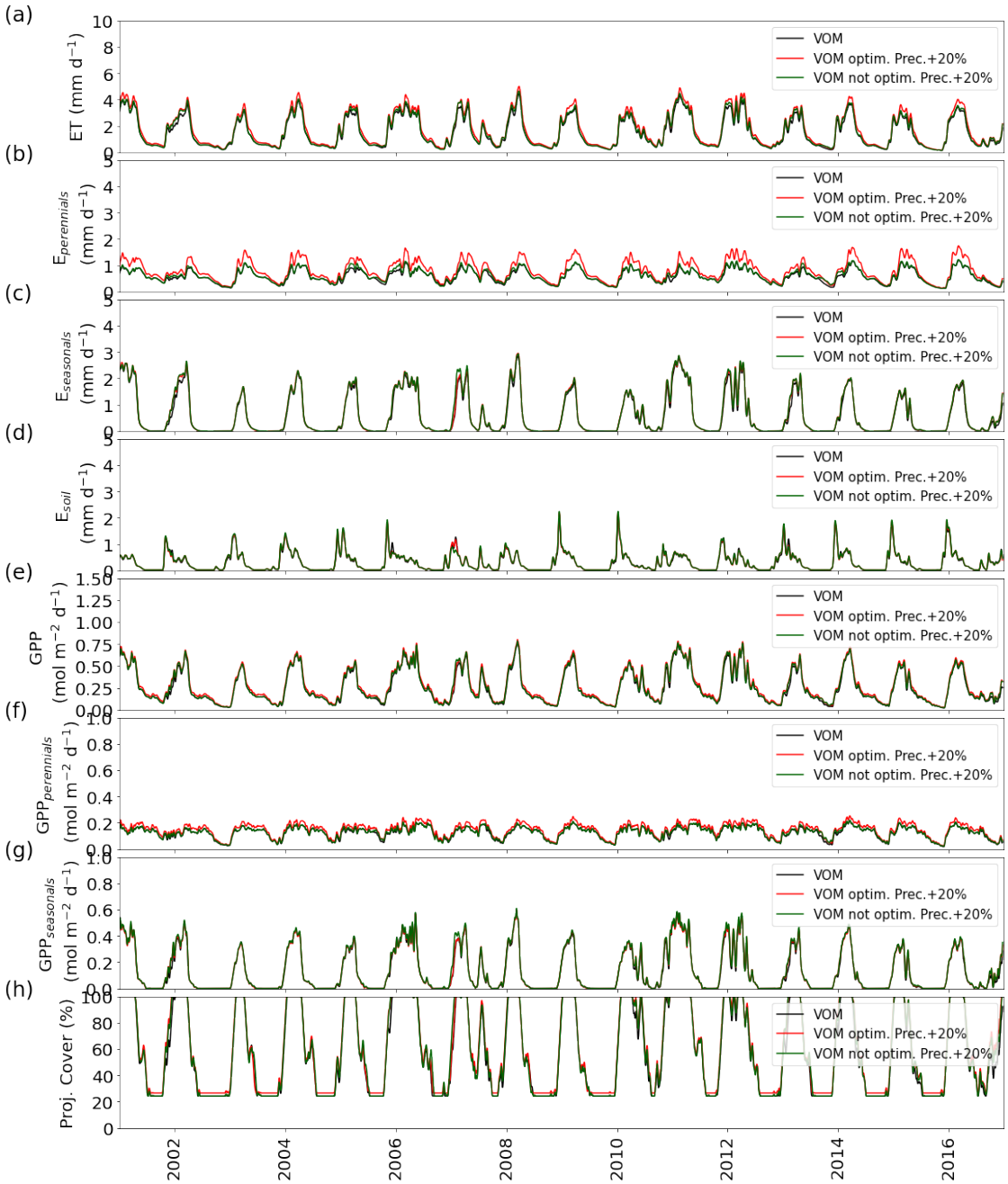

Figure S1.40. *Fluxes for point 16.5S,133.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

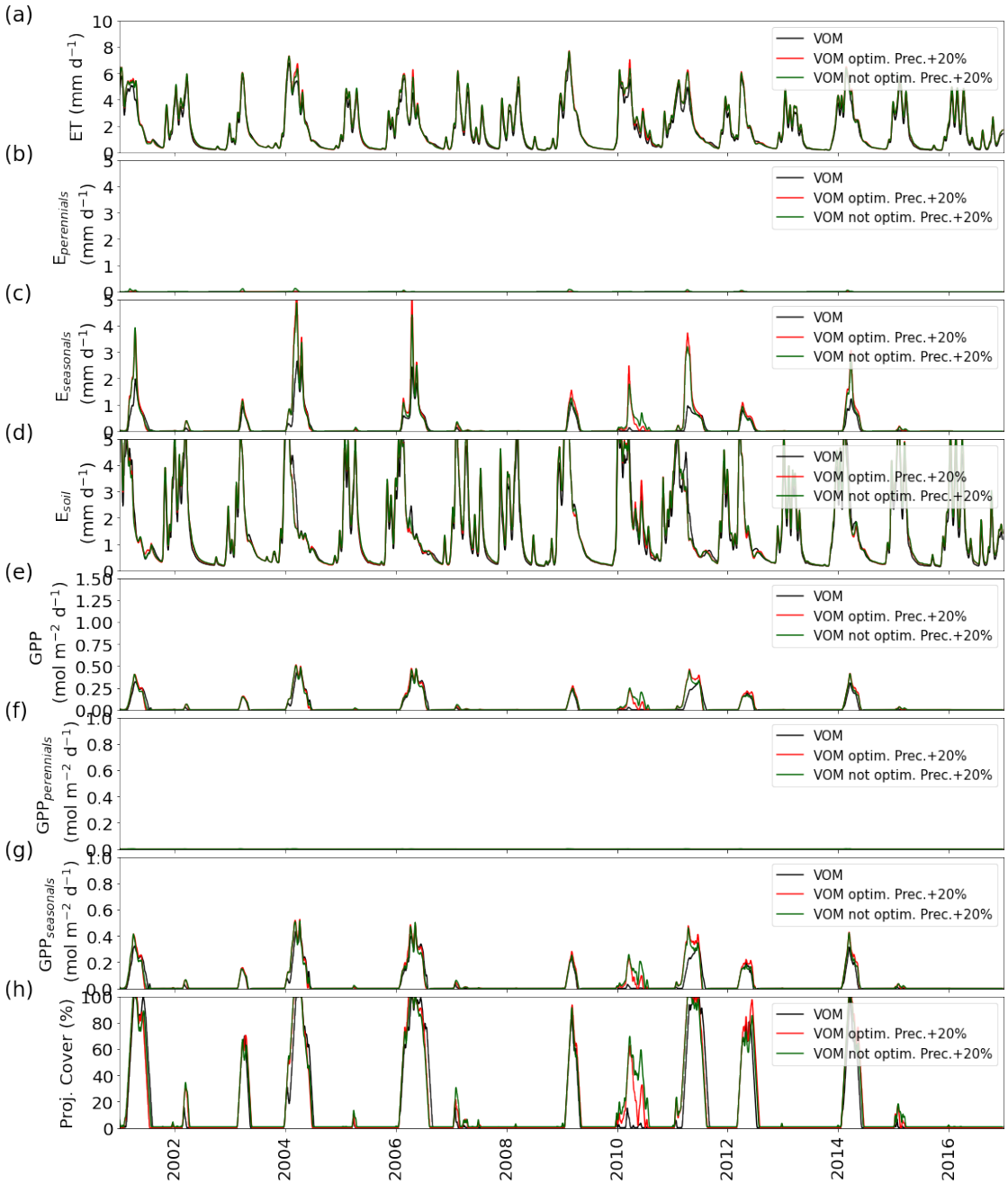

Figure S1.41. *Fluxes for point 17.5S,131.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

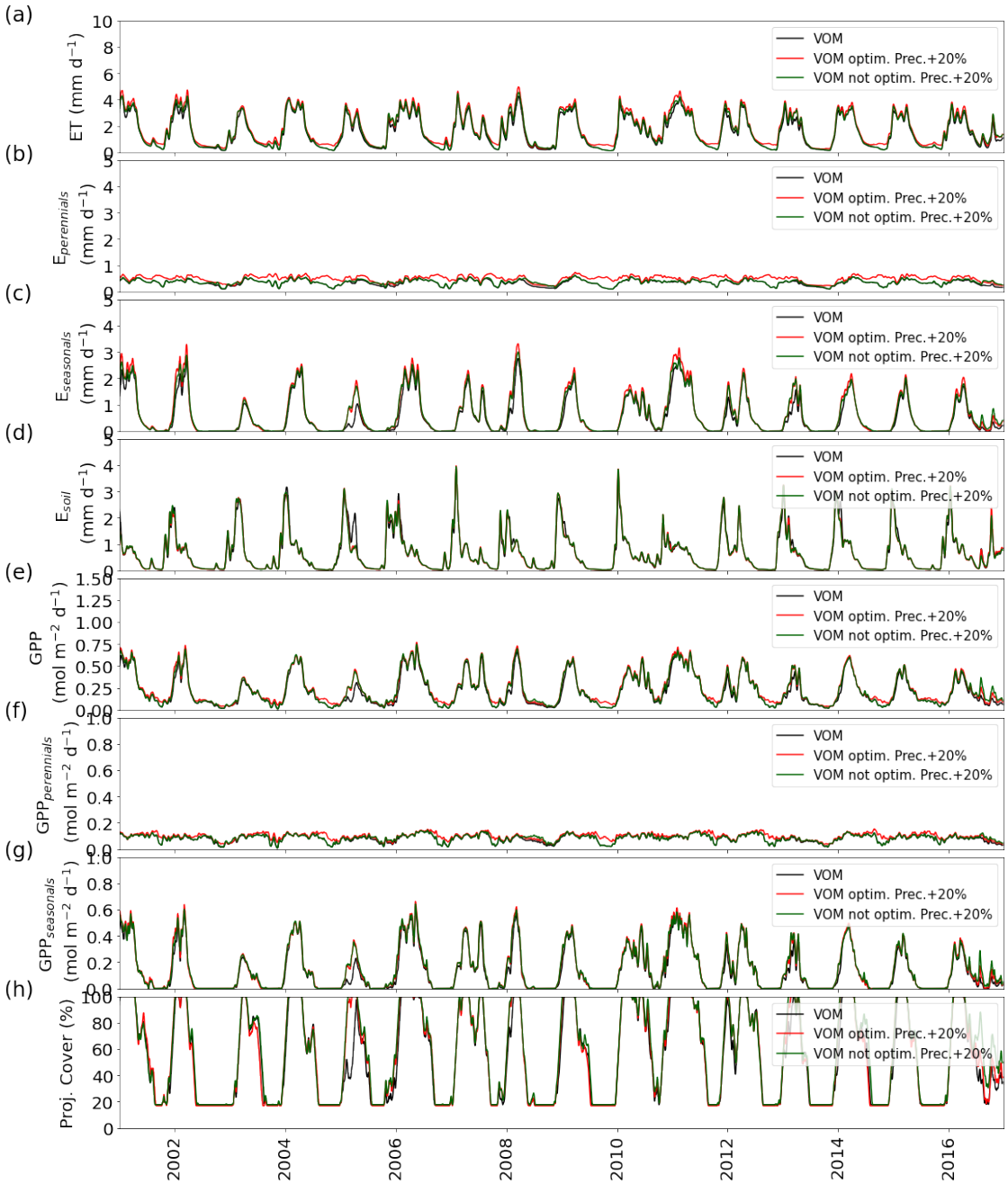

Figure S1.42. *Fluxes for point 17.5S,131.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

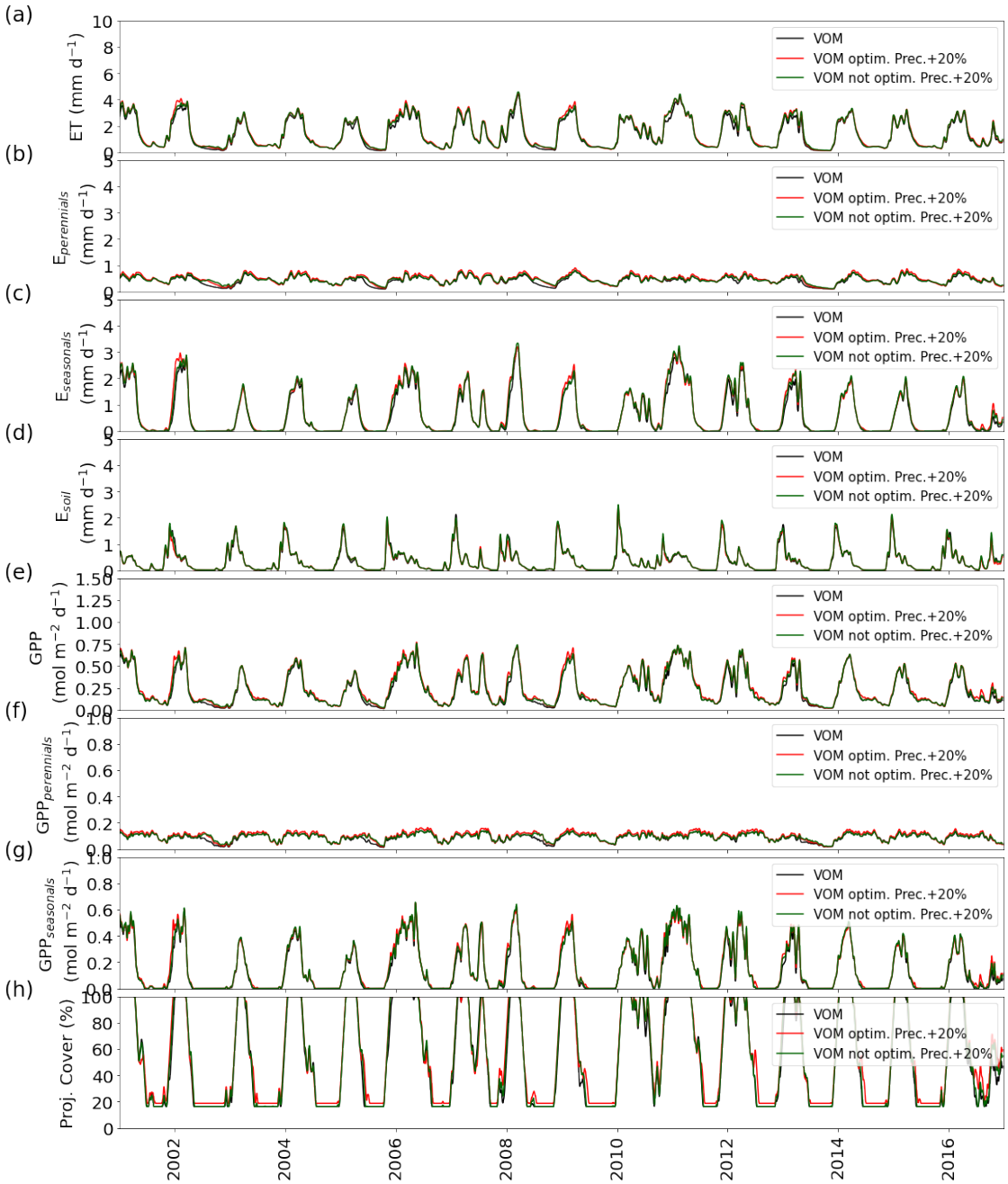

Figure S1.43. *Fluxes for point 17.5S,132.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

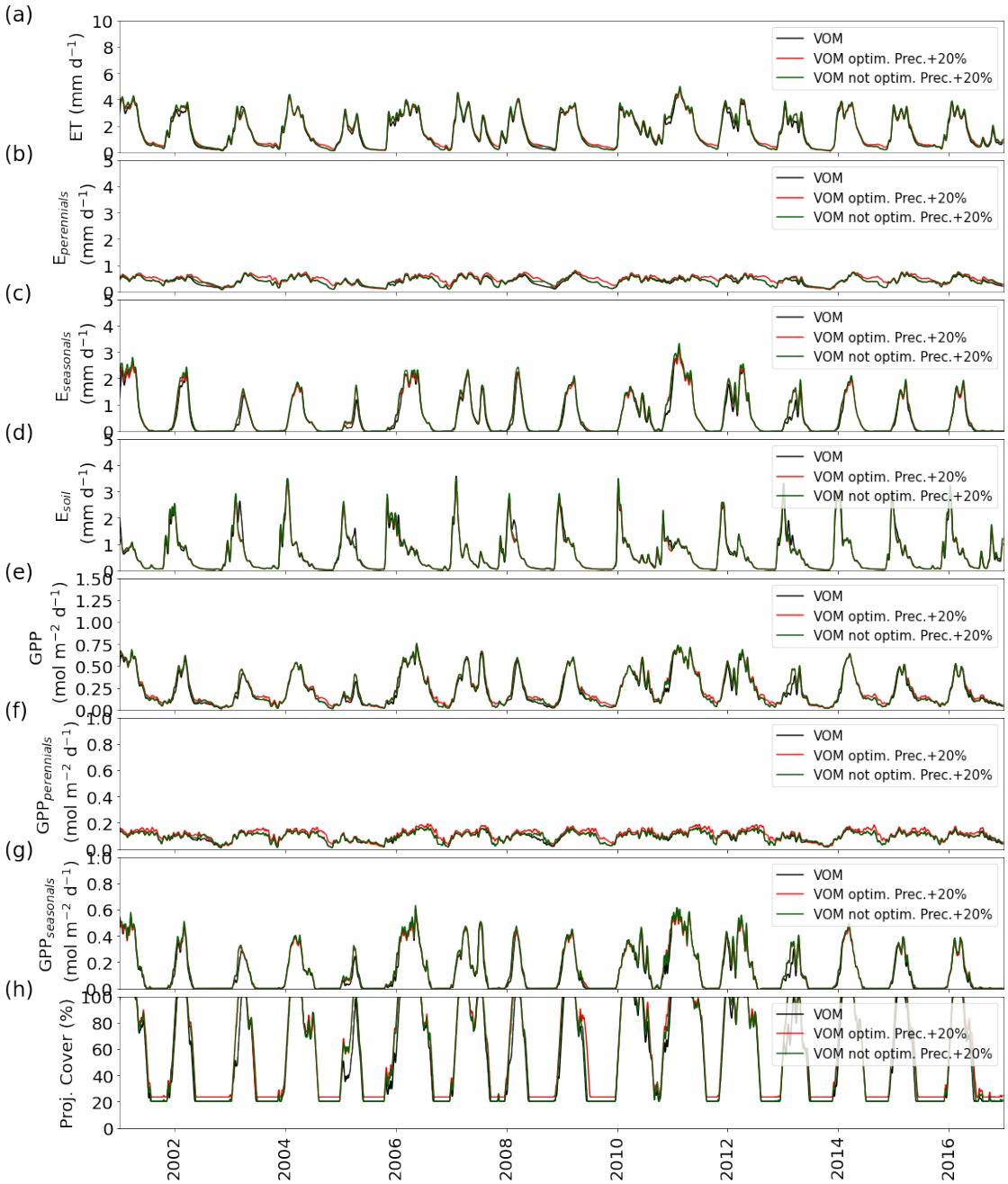

Figure S1.44. *Fluxes for point 17.5S,132.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

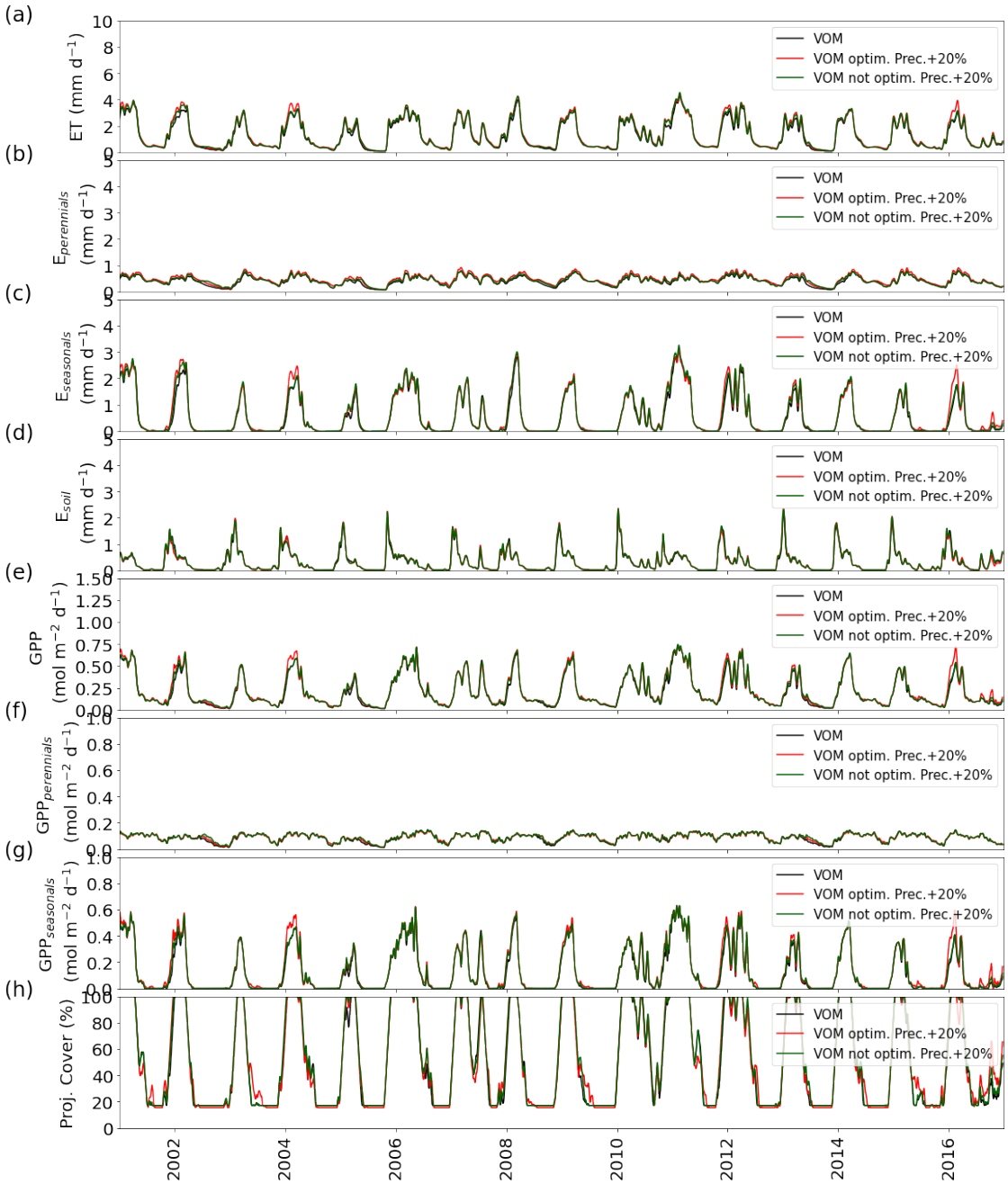

Figure S1.45. *Fluxes for point 17.5S,133.0E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

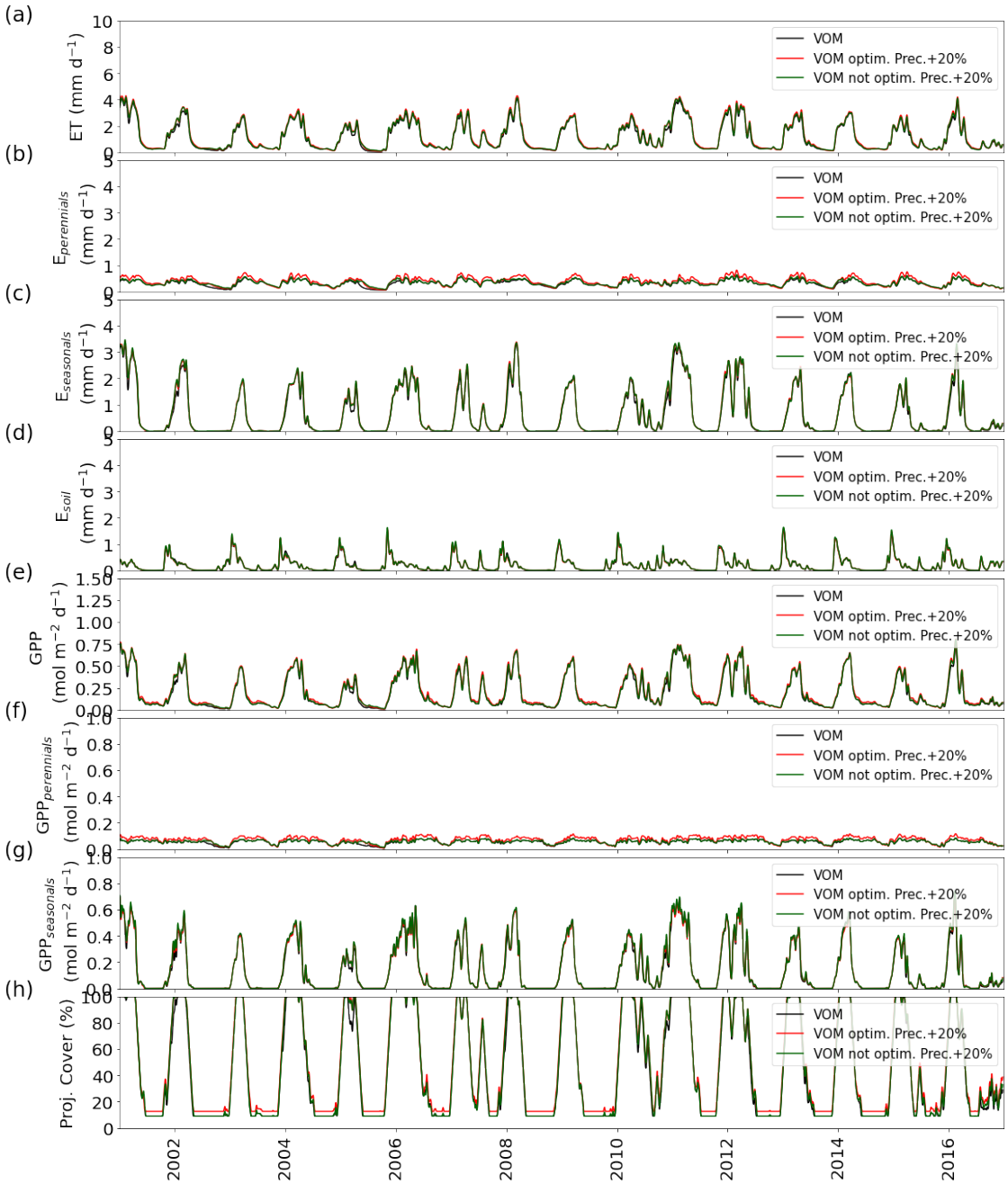

Figure S1.46. *Fluxes for point 17.5S,133.5E from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM (black), optimized VOM with increased precipitation (red), and the VOM without optimization and increased precipitation (green).*

1.3 Australian catchments

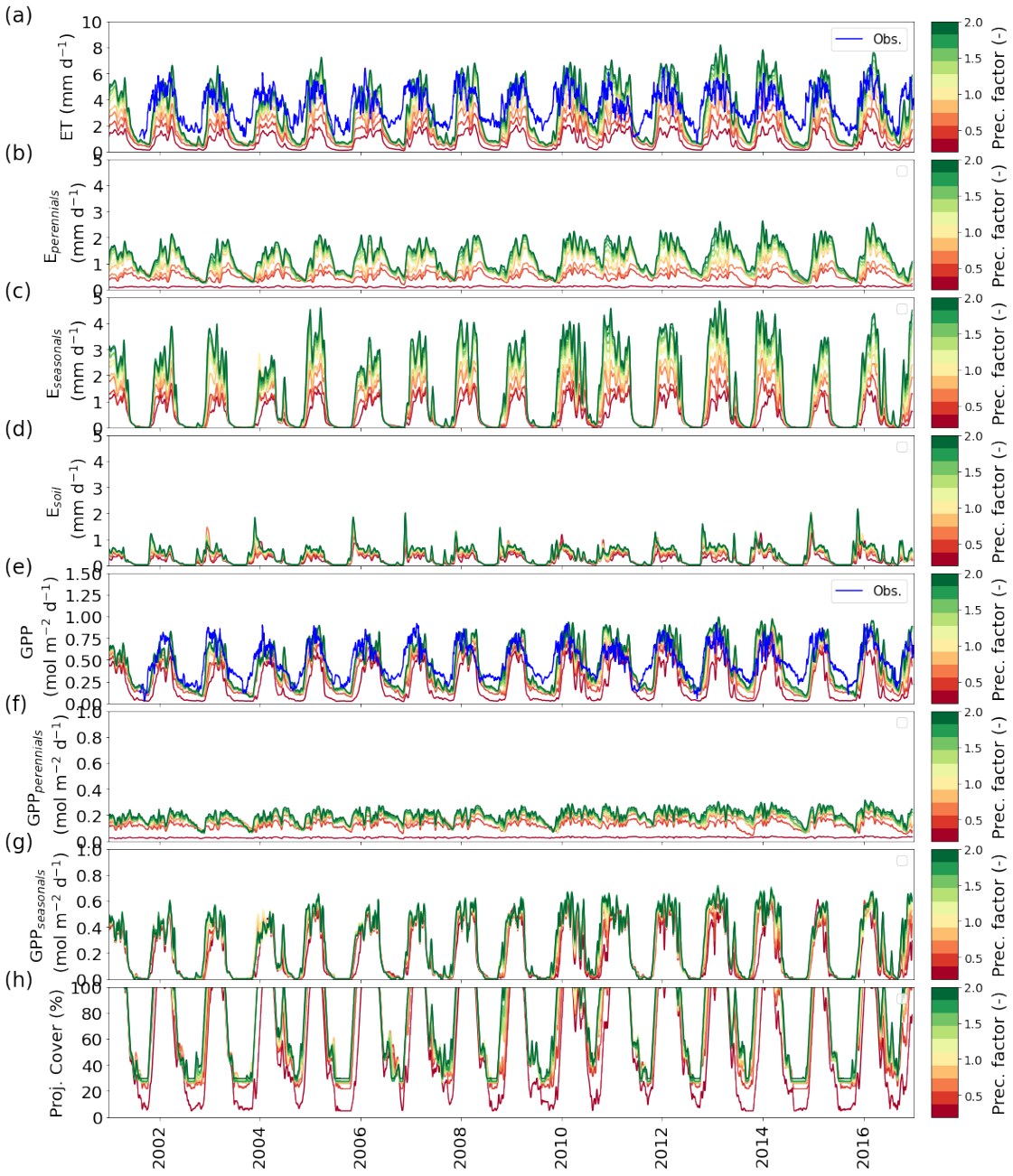

Figure S1.47. *Fluxes for the Adelaide River catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

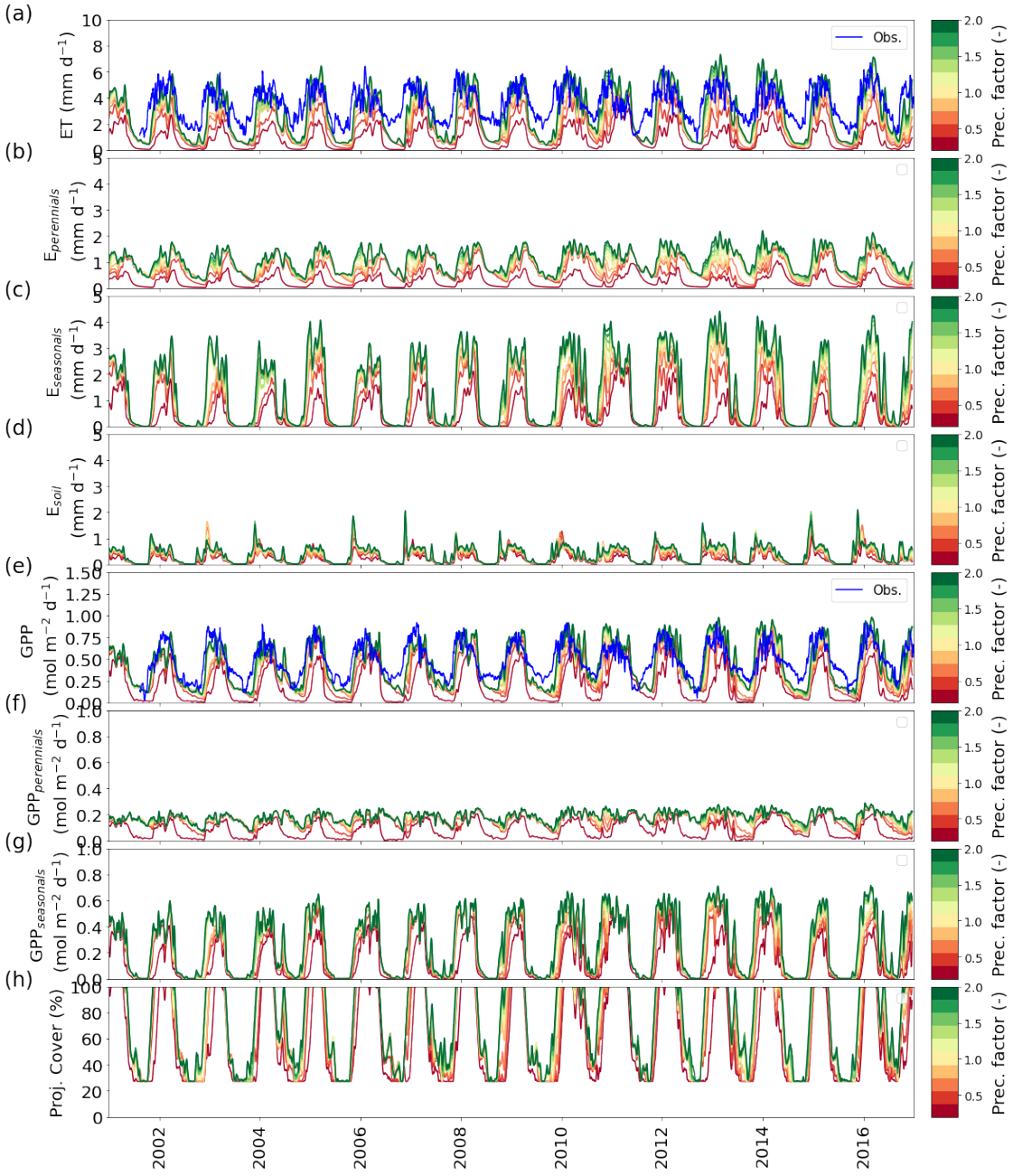

Figure S1.48. *Fluxes for the Adelaide River catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

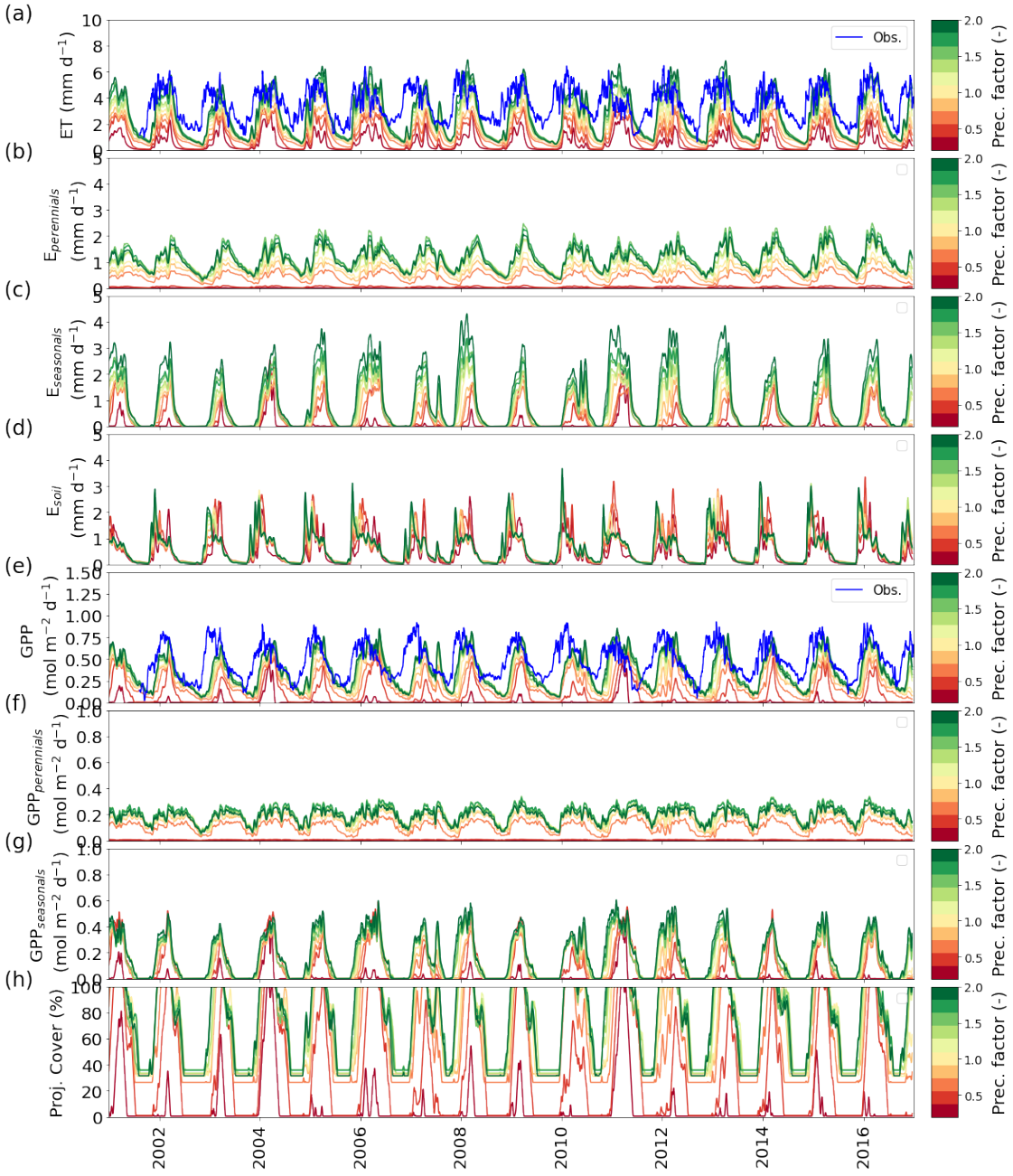

Figure S1.49. *Fluxes for the Dry River catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

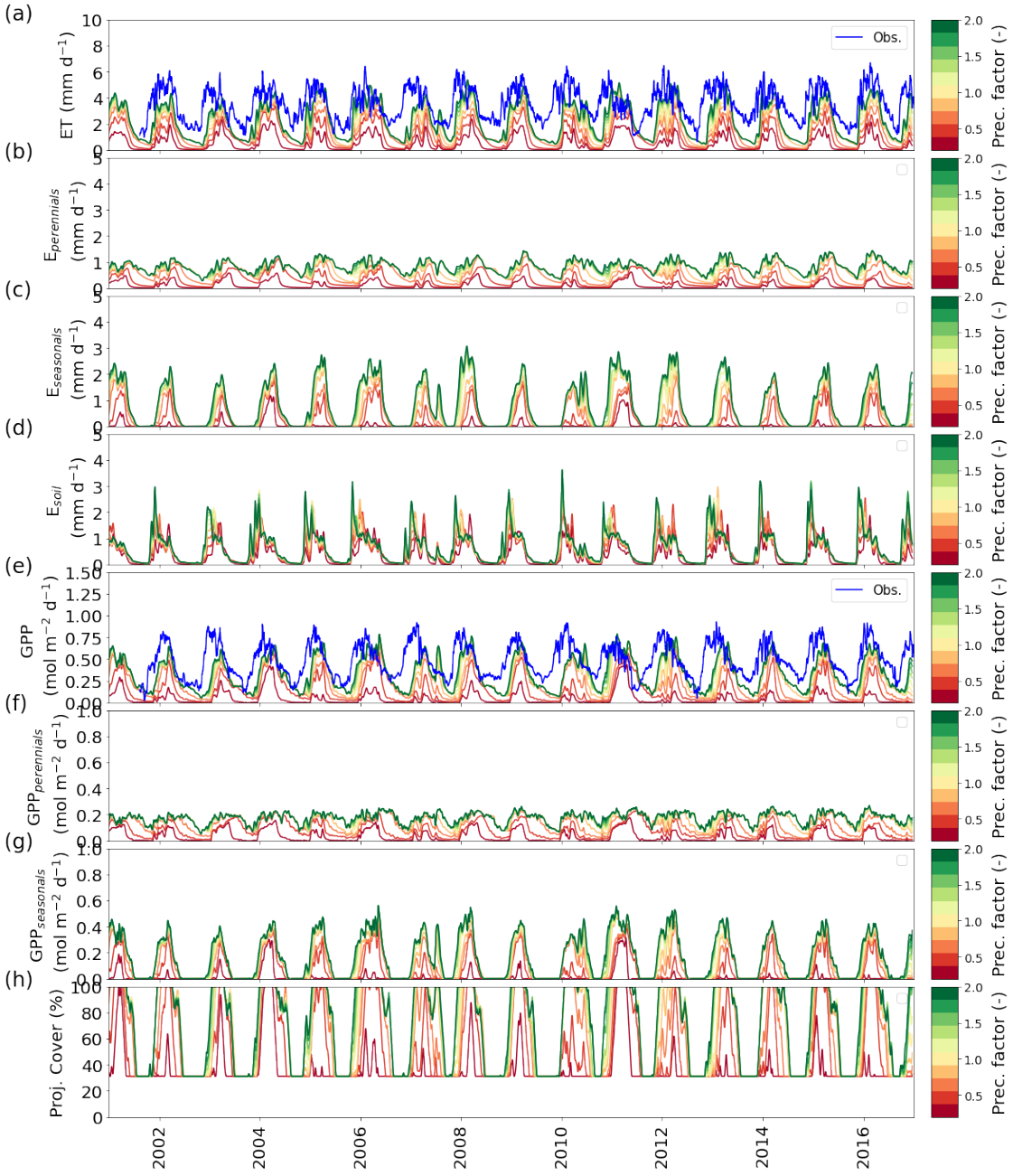

Figure S1.50. *Fluxes for the Dry River catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

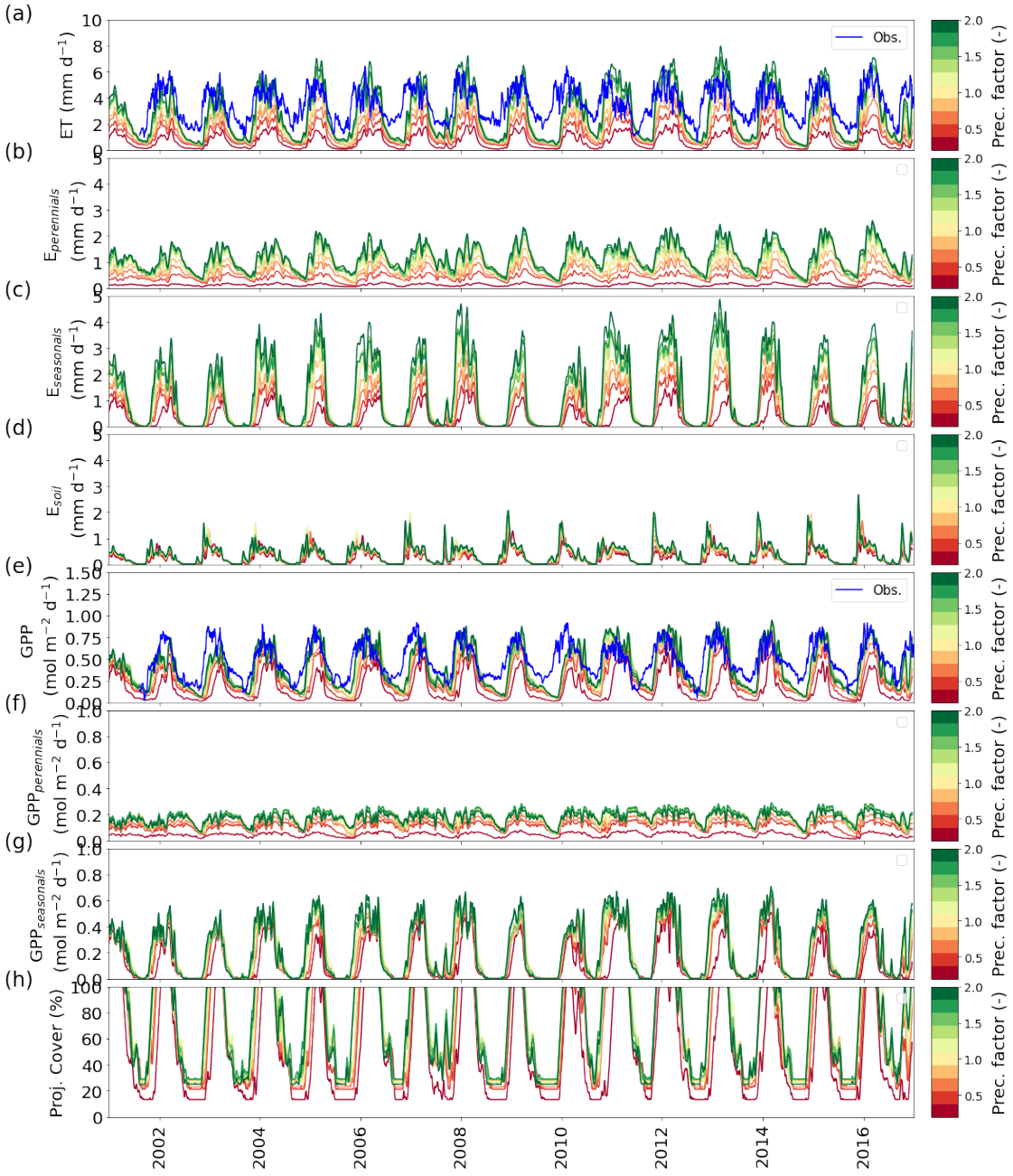

Figure S1.51. *Fluxes for the Fergusson River catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

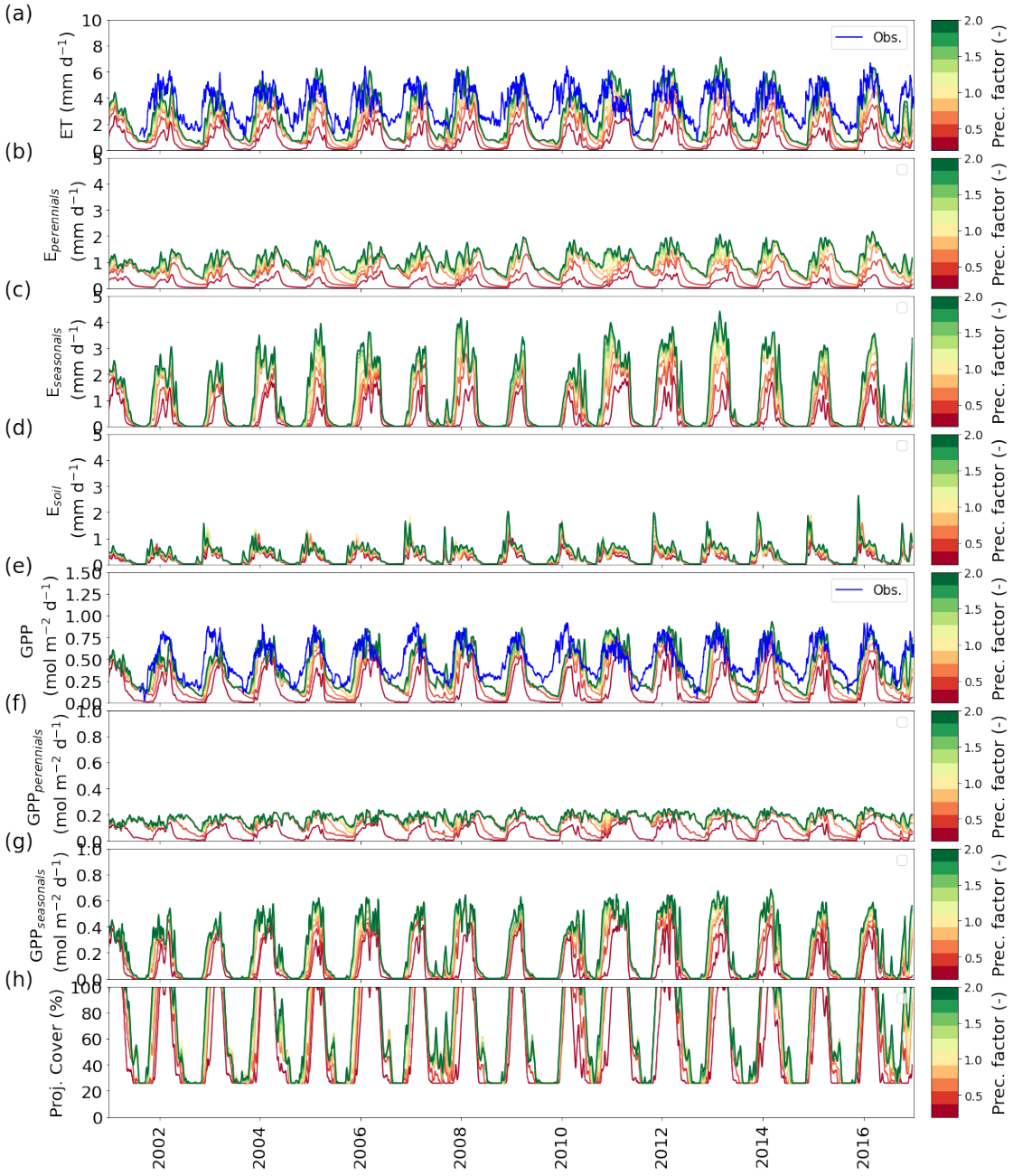

Figure S1.52. *Fluxes for the Fergusson River catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*

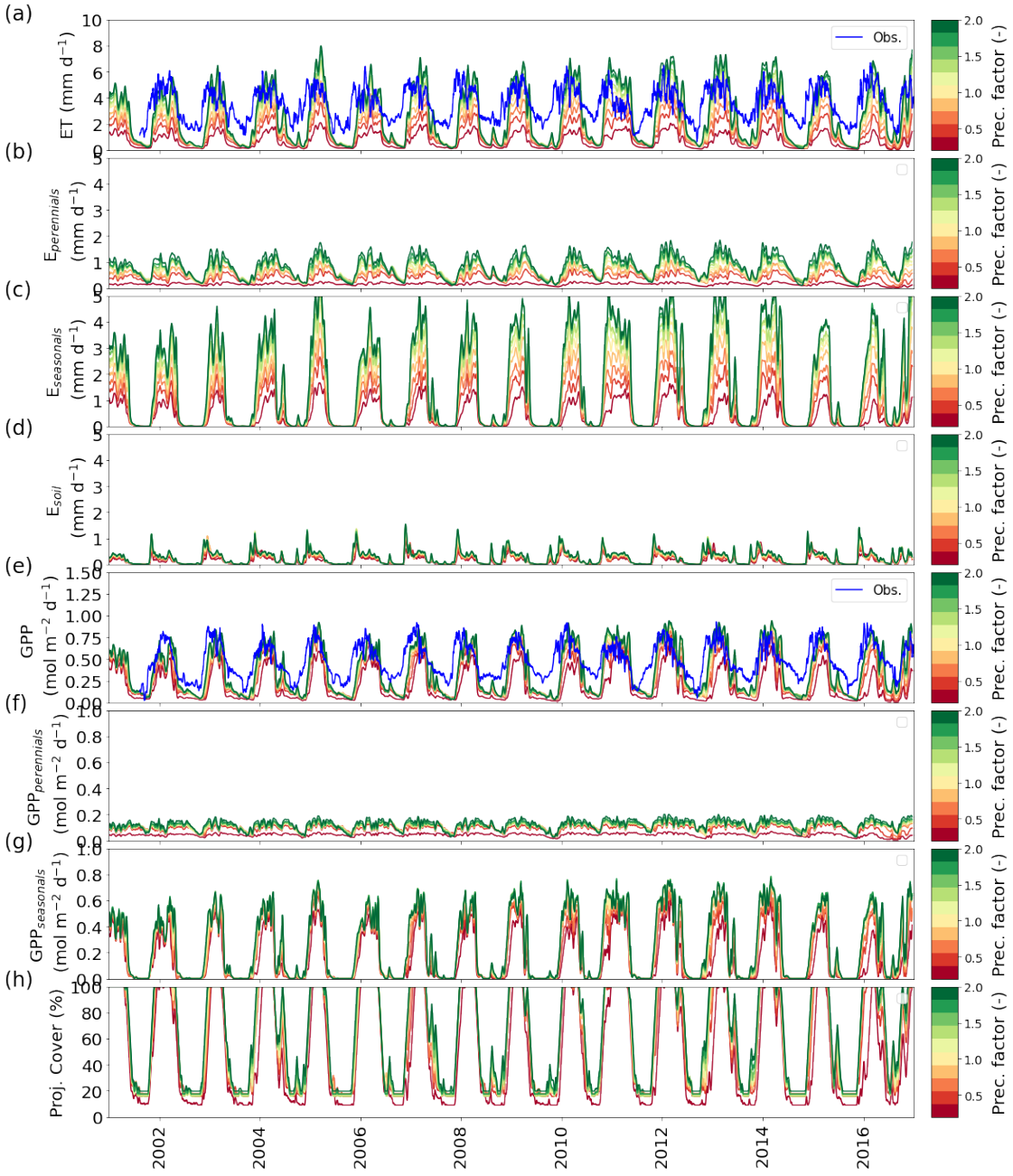

Figure S1.53. *Fluxes for the Magela Creek catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the optimized VOM with different multiplications of the precipitation (color scale).*

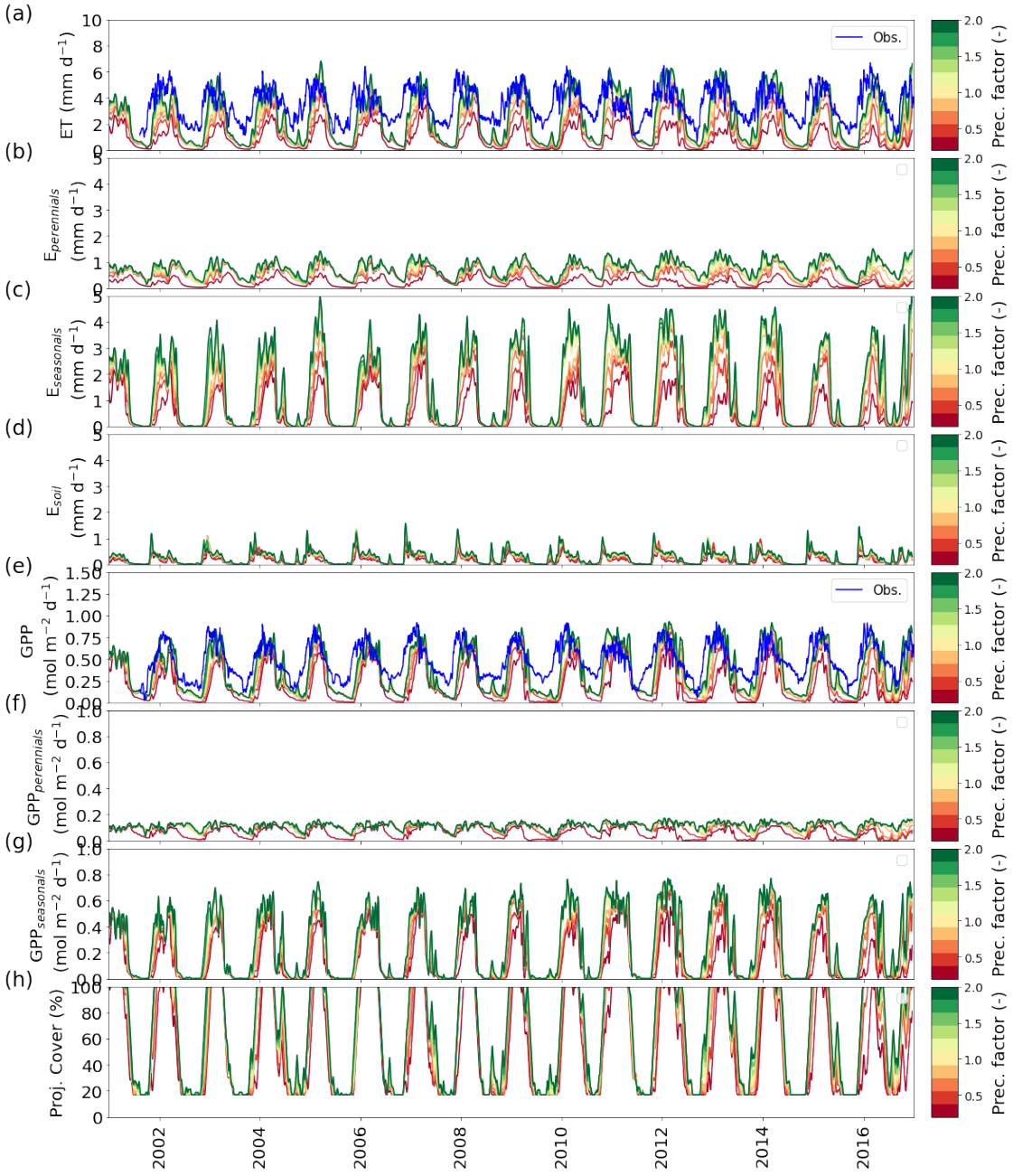

Figure S1.54. *Fluxes for the Magela Creek catchment from 2001-2016 (subset from 1980-2016) for a) ET, b) transpiration perennials (trees), c) transpiration seasonals (grasses), d) soil evaporation, e) GPP, f) GPP perennials (trees), g) GPP seasonals (grasses), all smoothed with a moving average of 7 days, for the VOM with different multiplications of the precipitation (color scale) and the same vegetation parameters.*