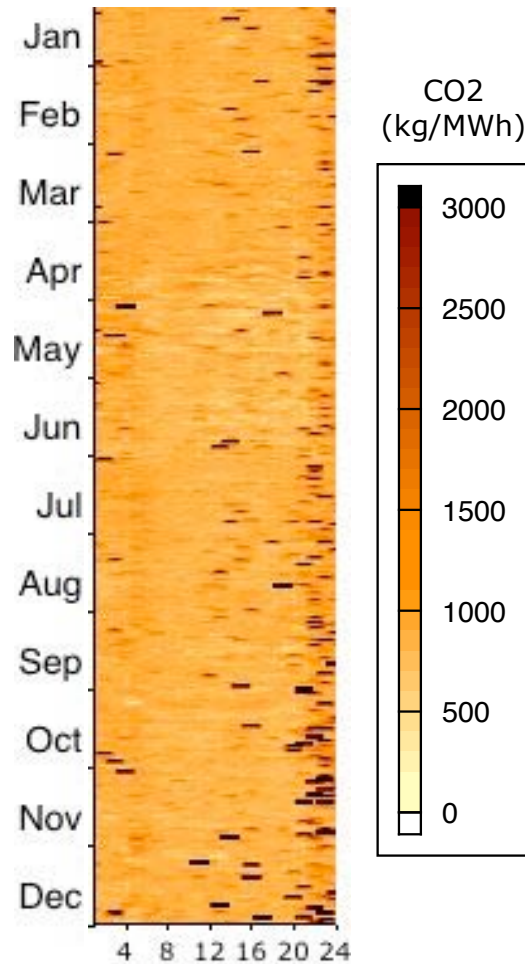


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CO₂ Load Shape Following Emission Rate Profiles



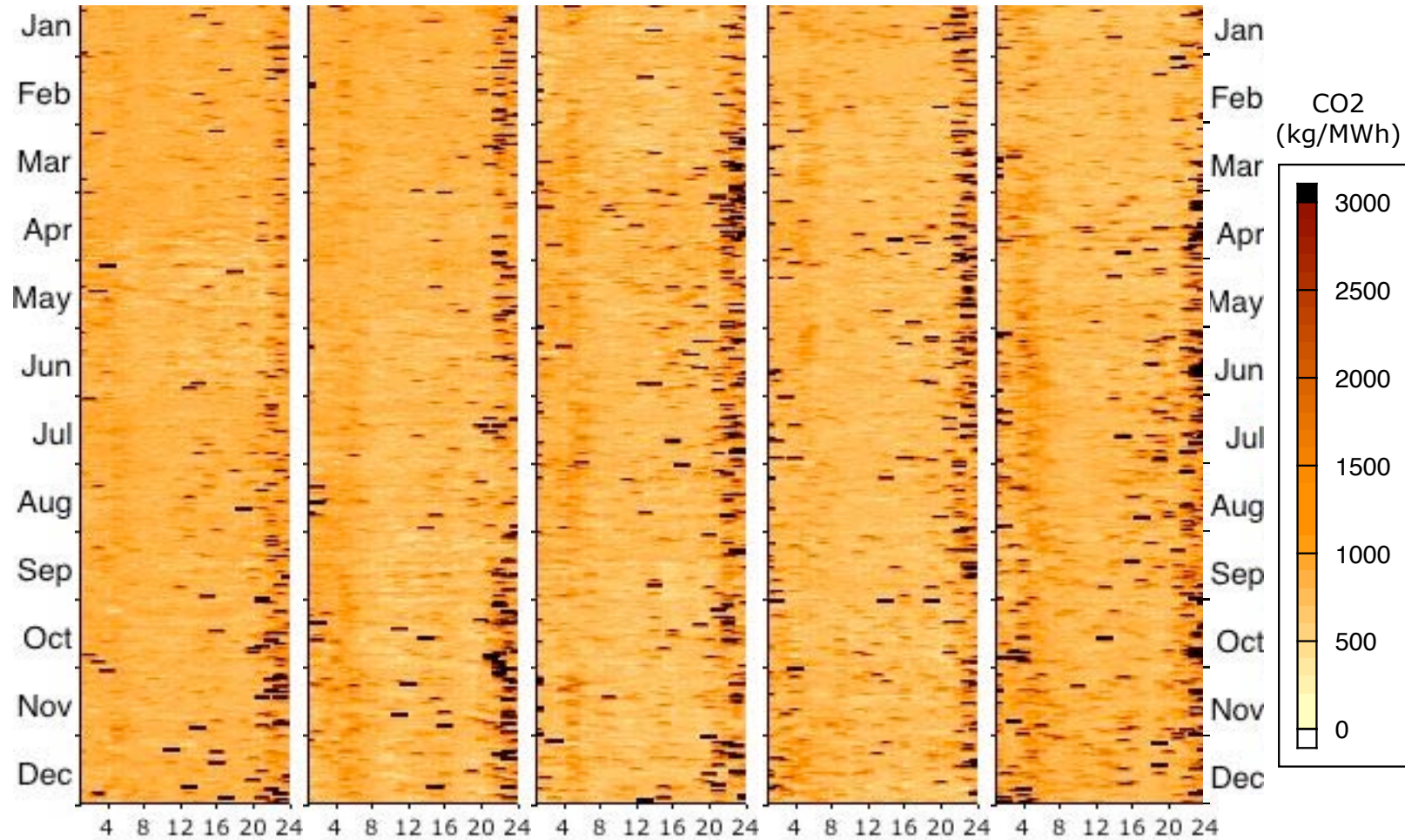
Contour plots show emissions from 1MWh of load shape following generation in each hour of the year. Alternatively, this can be thought of as the emissions that would be avoided from applying 1MWh of non-emitting generation or demand side management in each hour of the year.

Below the contour plot is a chart that displays the average load shape following emission rate for the year and the total emissions from 8760 MWh of generation. That is, the total emissions from 1 MWh of load shape following generation in each hour of the year.

Five plots are shown for each subregion, one plot for each year from 1998 through 2002.

1998
Ave (kg/MWh) 831
Total 7279
(t/8760MWh)

CO2 Load Shape Following Emission Rate – 1998 through 2002
 NEWE (New England) – (365 days x 24 hours)



	1998	1999	2000	2001	2002
Ave (kg/MWh)	831	797	750	738	763
Total (t/8760MWh)	7279	6981	6590	6467	6686

Figure BIIIc - 1. NEWE – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in NEWE (New England) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 NYAS (New York) – (365 days x 24 hours)

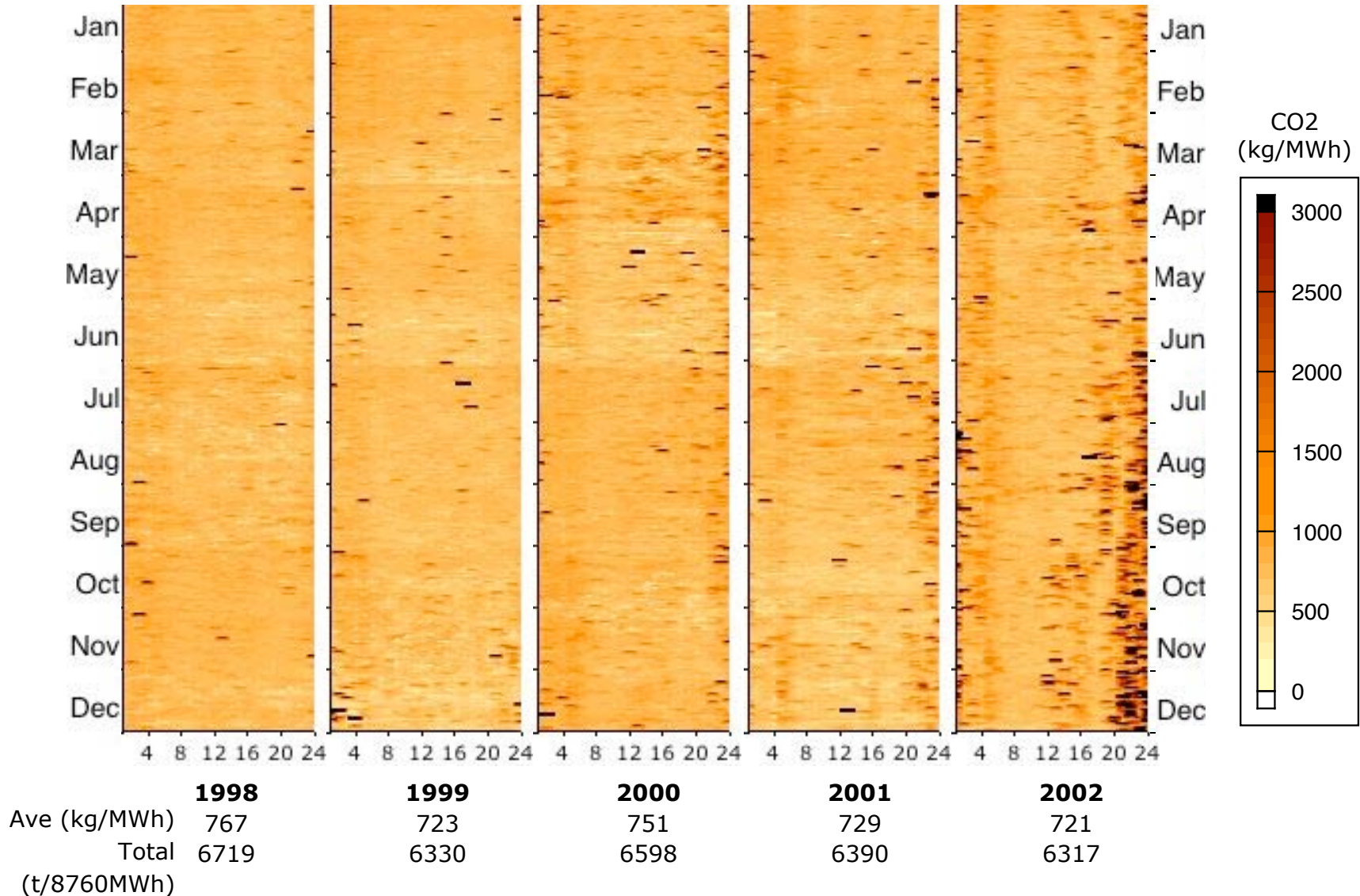


Figure BIIIc - 2. NYAS – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in NYAS (New York) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 MAAC (Mid-Atlantic) – (365 days x 24 hours)

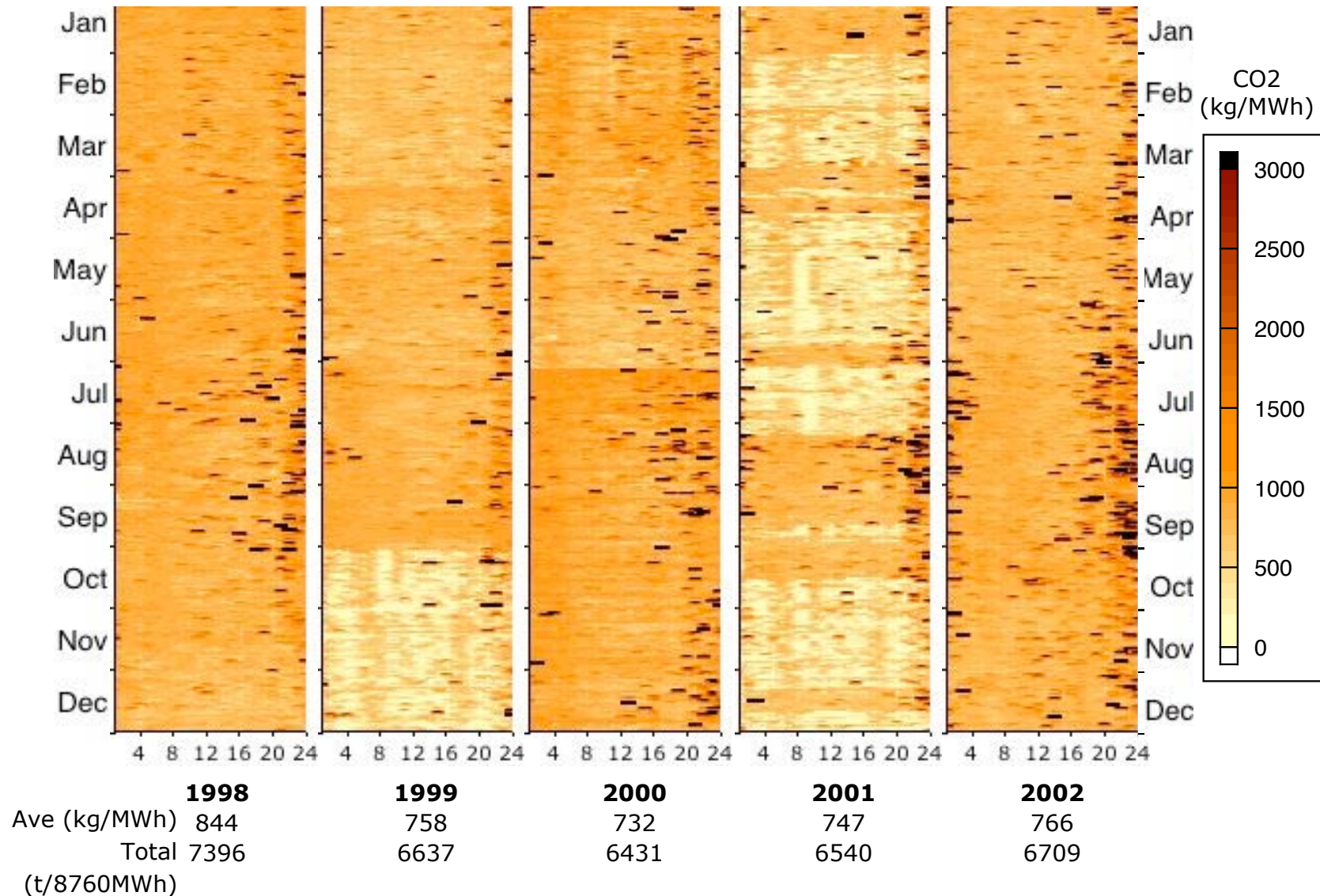


Figure BIIIc - 3. MAAC – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in MAAC (Mid-Atlantic) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 ECOV (Ohio Valley) – (365 days x 24 hours)

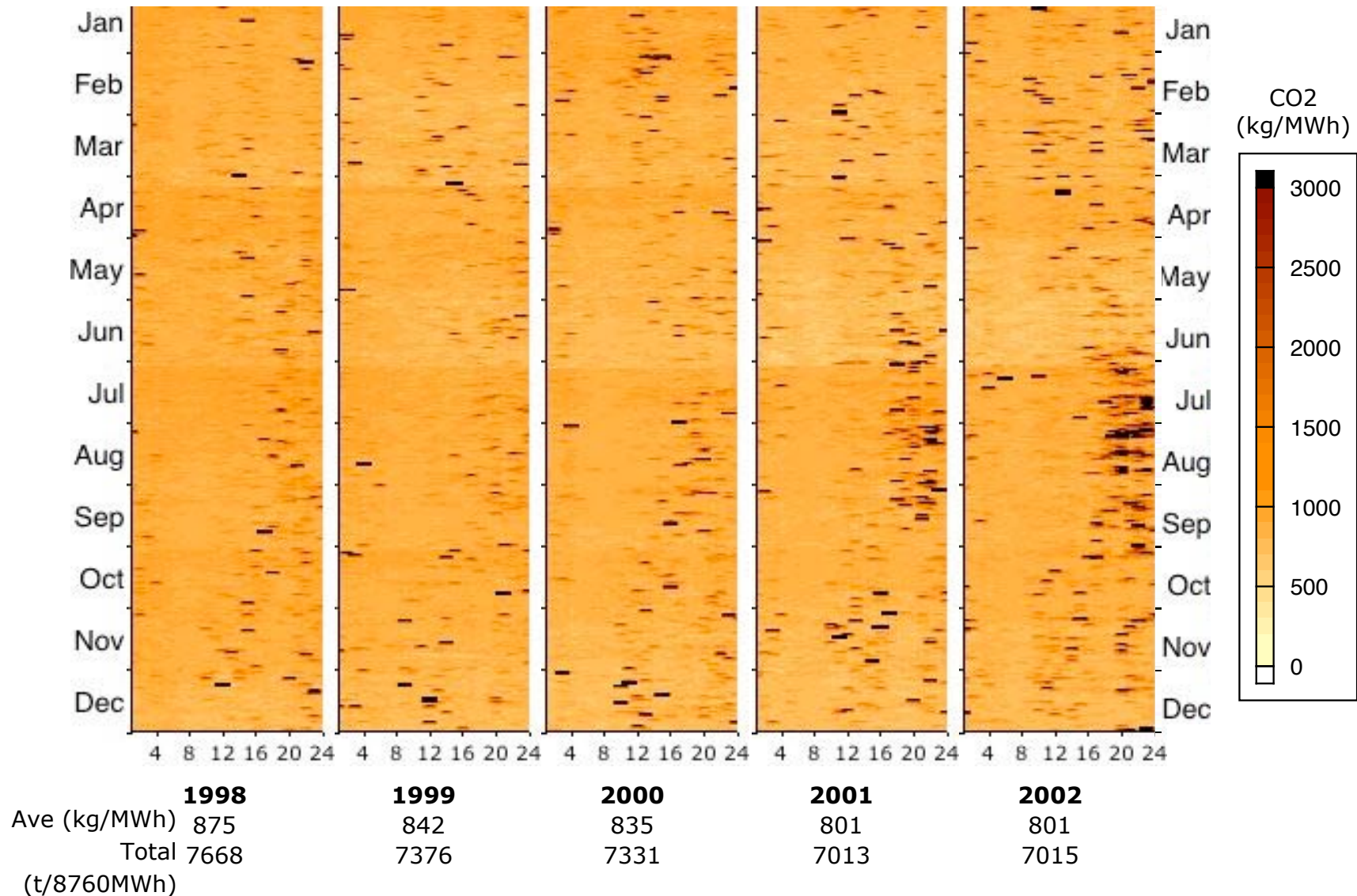
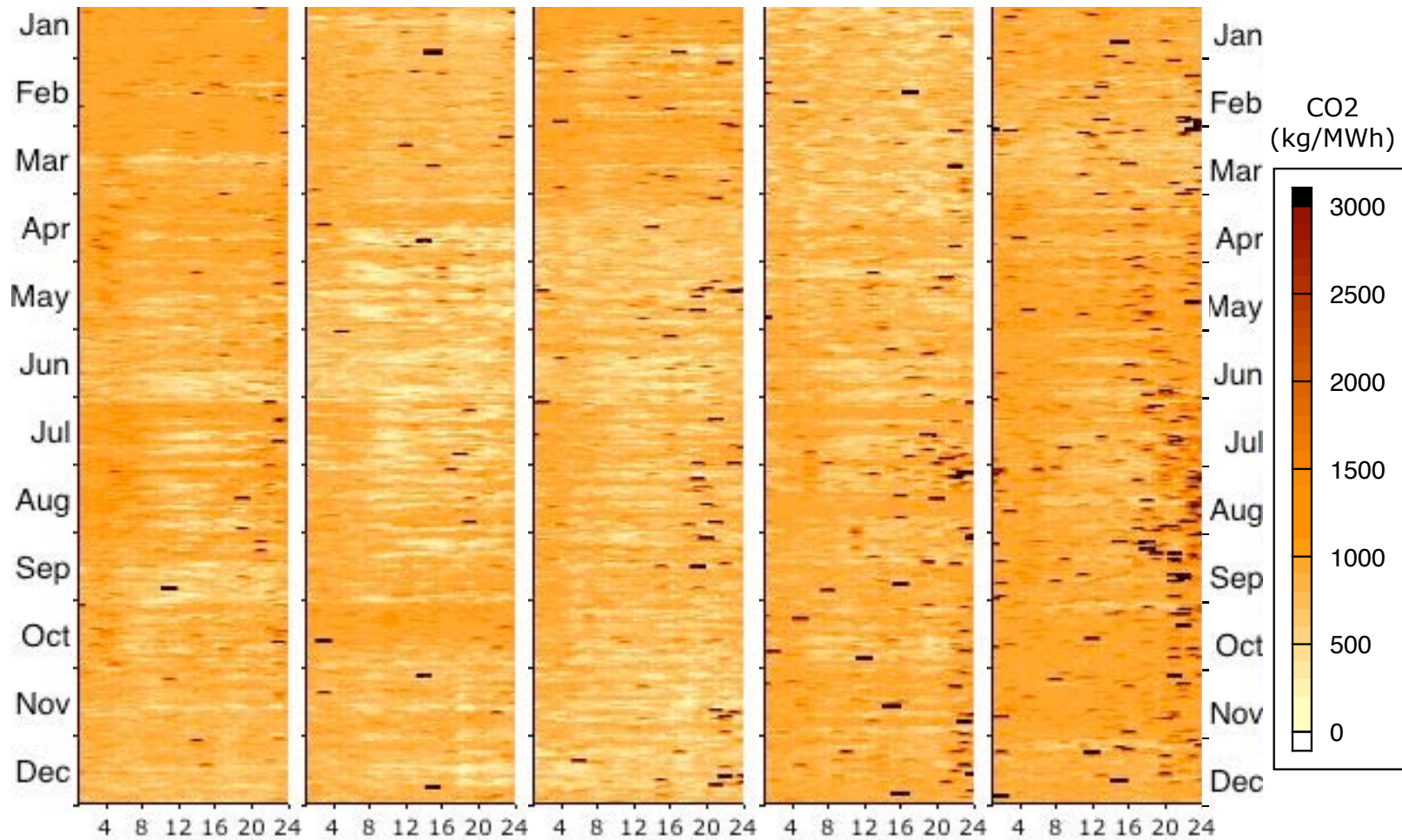


Figure BIIIc - 4. ECOV – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in ECOV (Mid-Atlantic) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 ECMI (Michigan) – (365 days x 24 hours)



	1998	1999	2000	2001	2002
Ave (kg/MWh)	838	740	739	770	858
Total (t/8760MWh)	7337	6482	6492	6744	7517

Figure BIIIc - 5. ECMI – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in ECMI (Michigan) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 SRVC (Virginia/Carolinas) – (365 days x 24 hours)

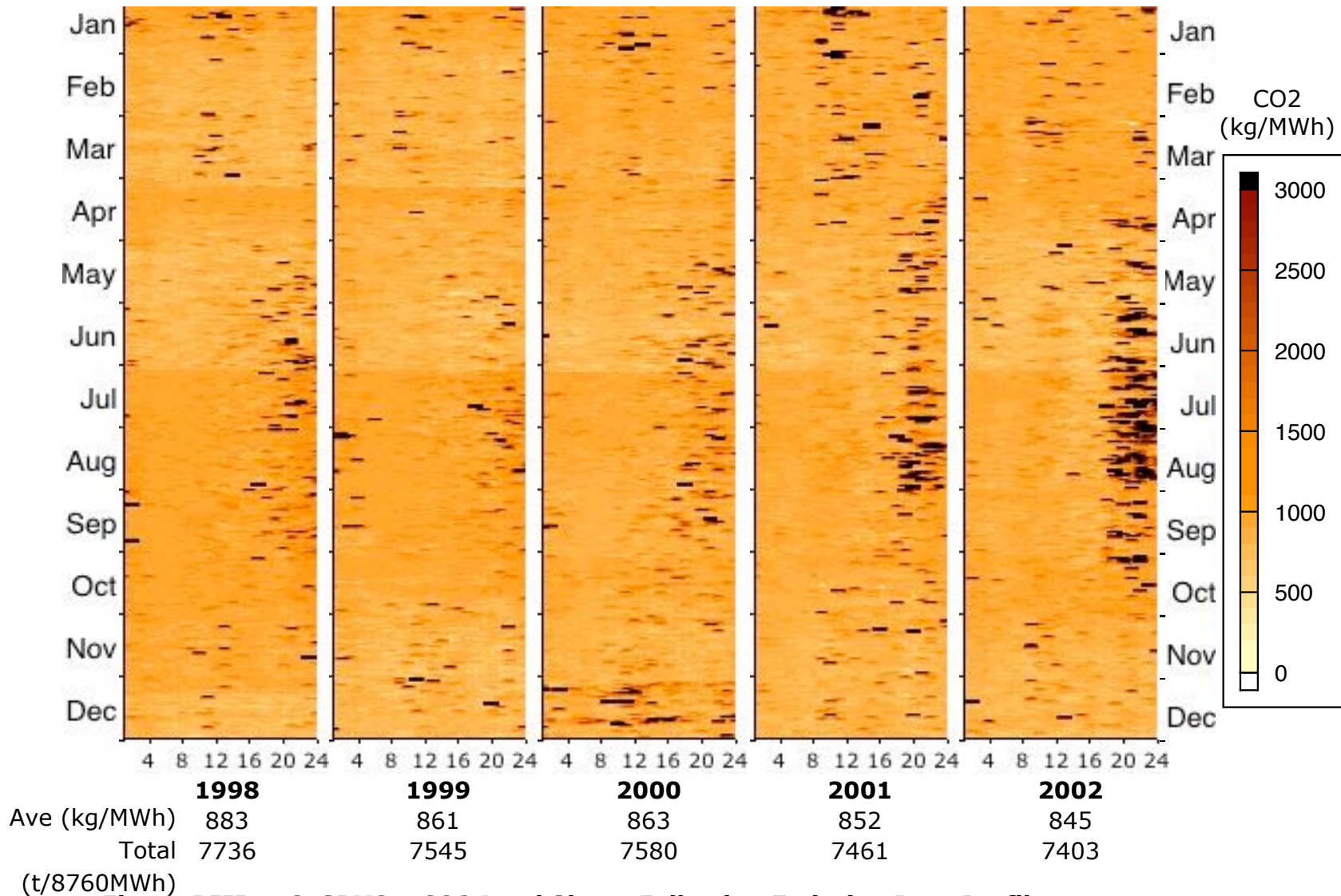


Figure BIIIc - 6. SRVC – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in SRVC (Virginia/Carolinas) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 SRTV (Tennessee Valley) – (365 days x 24 hours)

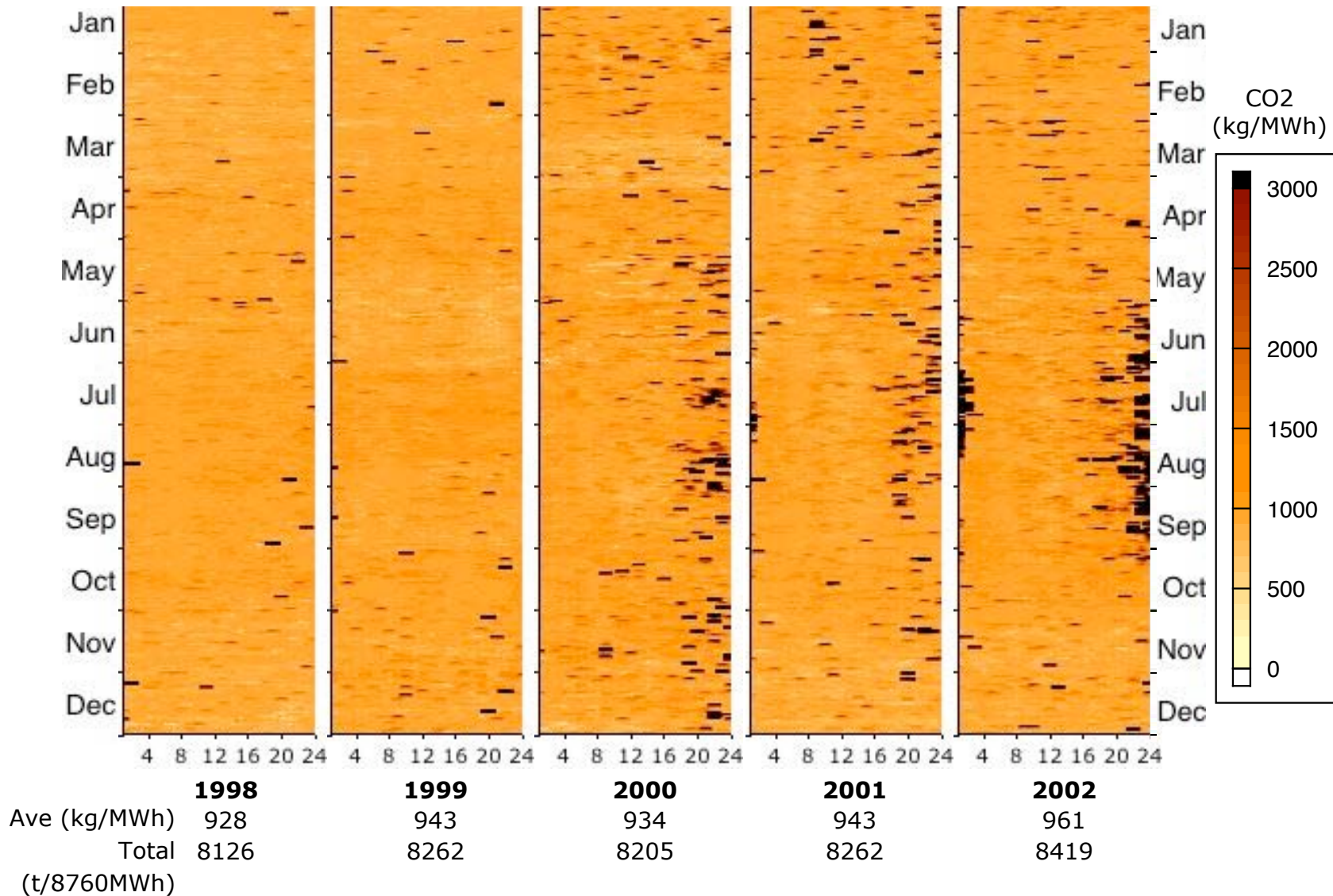


Figure BIIIc - 7. SRTV – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in SRTV (Tennessee Valley) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 SRSO (Southeast) – (365 days x 24 hours)

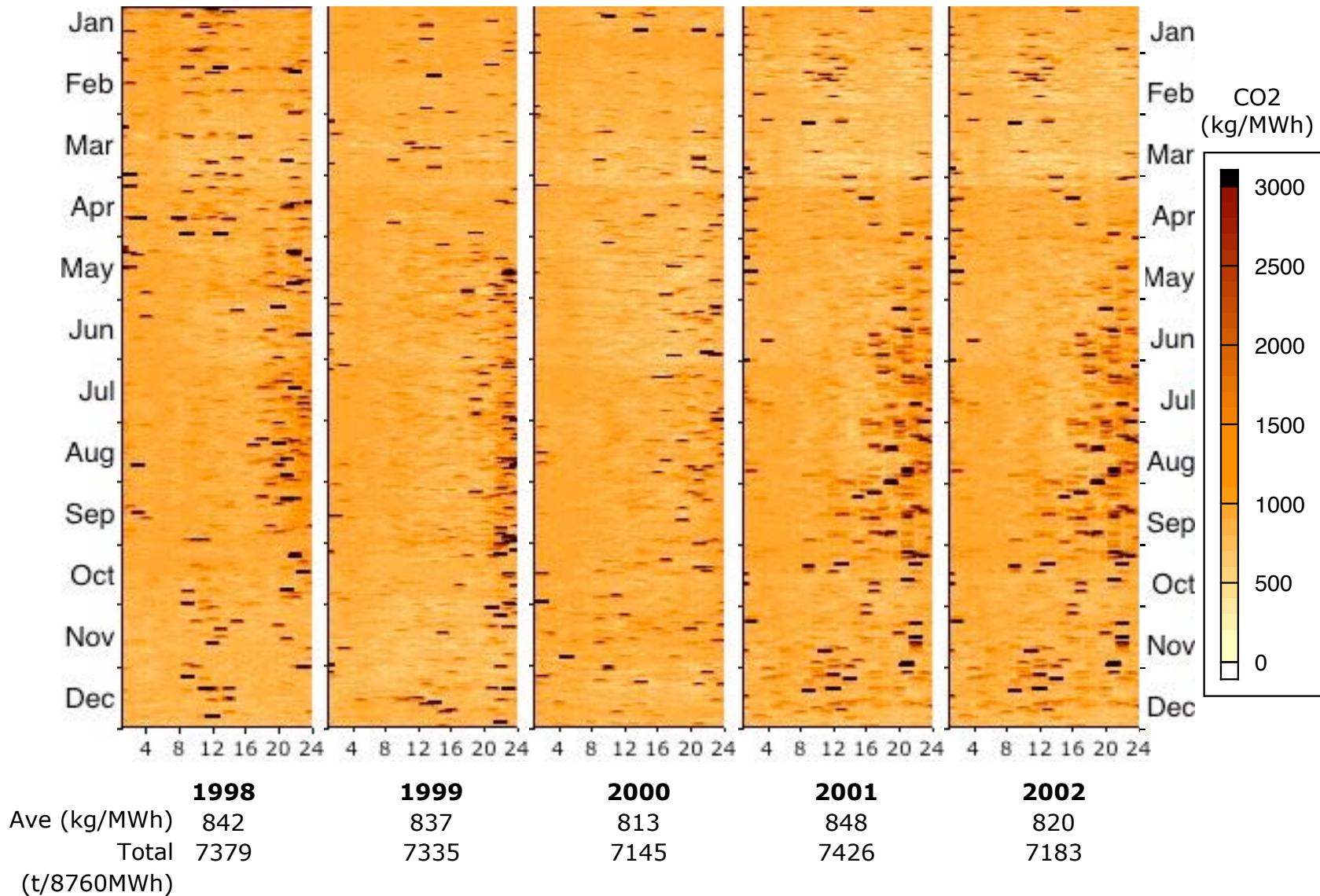


Figure BIIIc - 8. SRSO – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in SRSO (Southeast) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 SRMV (Mississippi Valley) – (365 days x 24 hours)

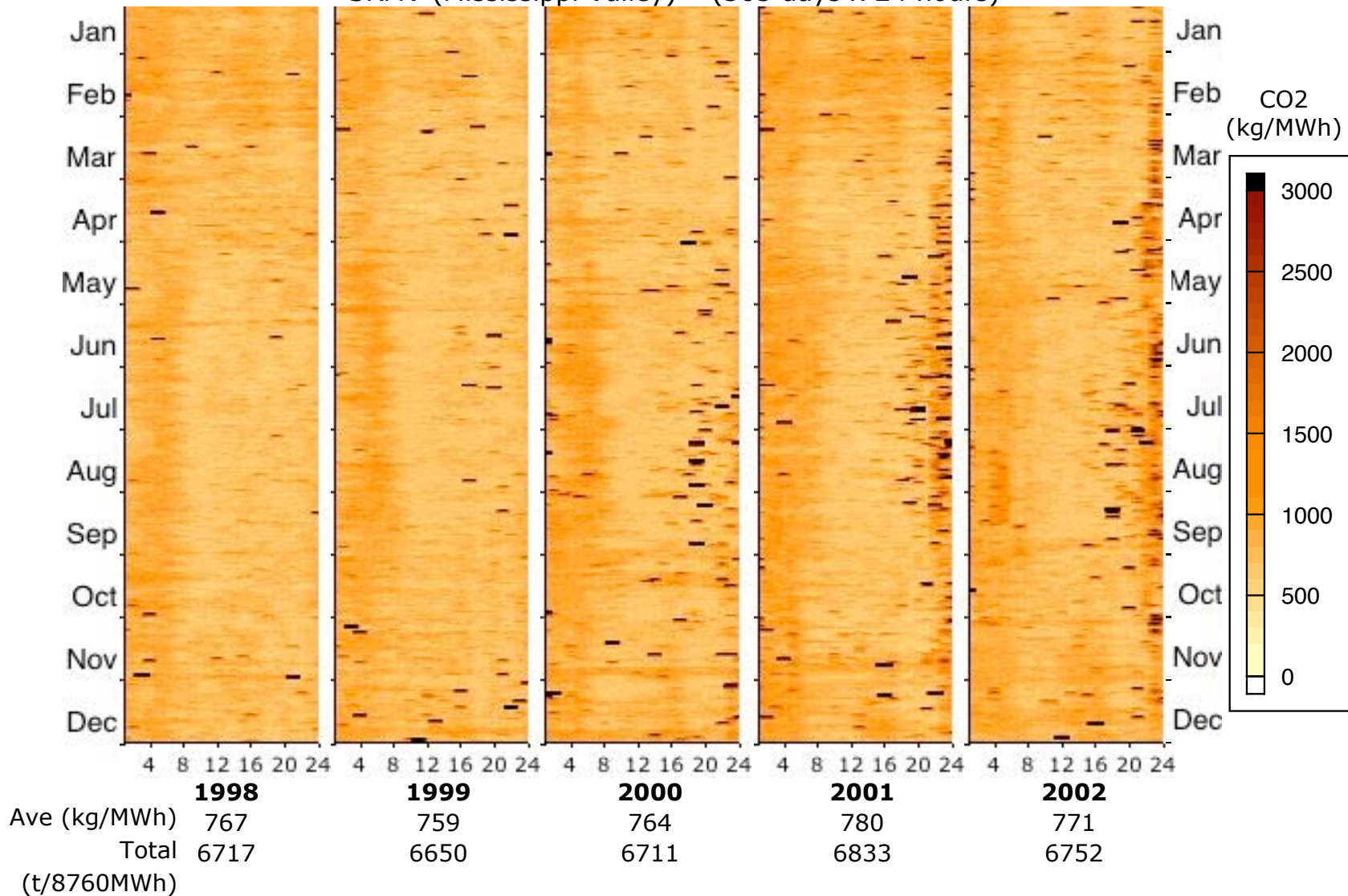


Figure BIIIc - 9. SRMV – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in SRMV (Mississippi Valley) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 FRCC (Florida) – (365 days x 24 hours)

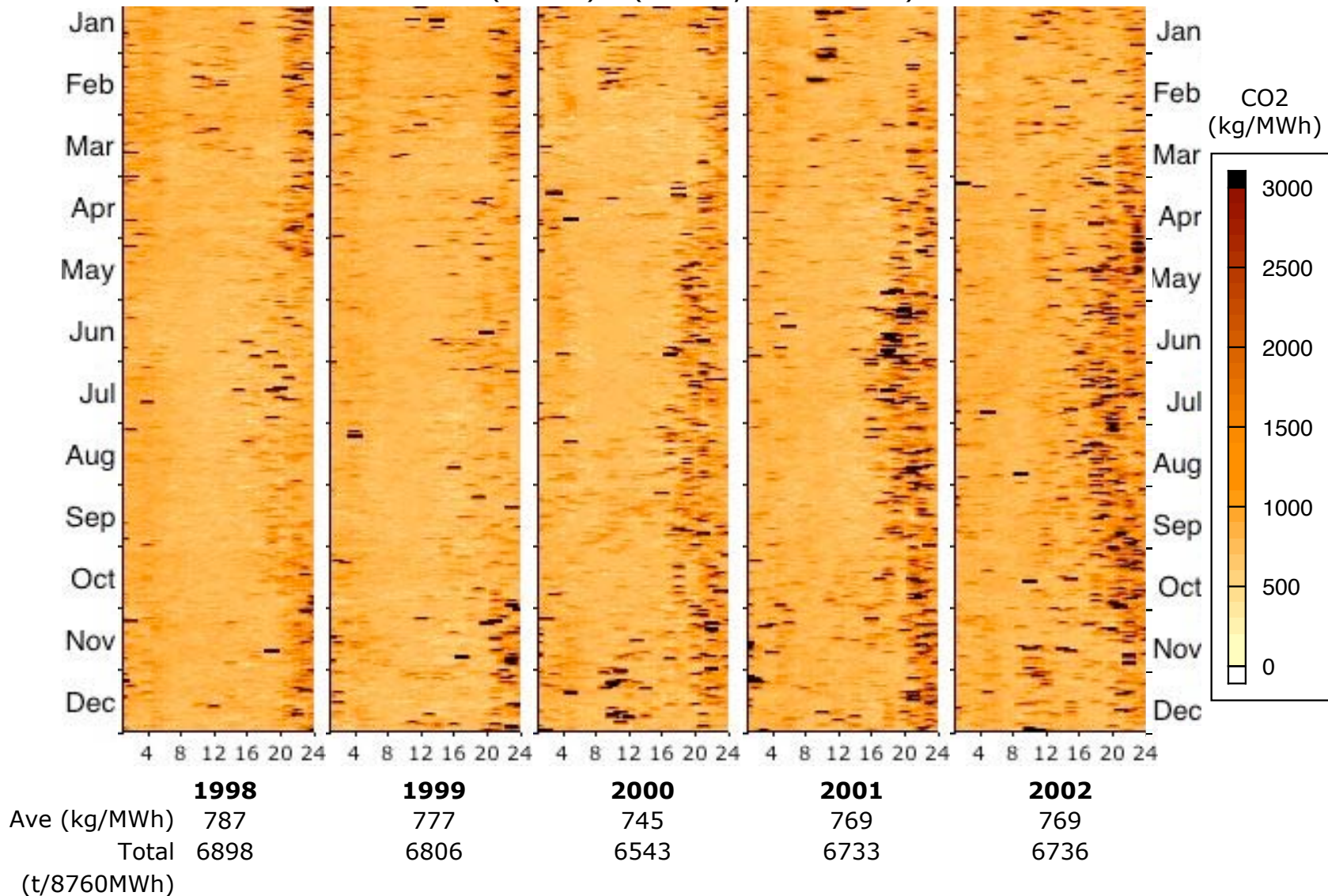


Figure BIIIc - 10. FRCC – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in FRC (Florida) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
MANN (Wisconsin) – (365 days x 24 hours)

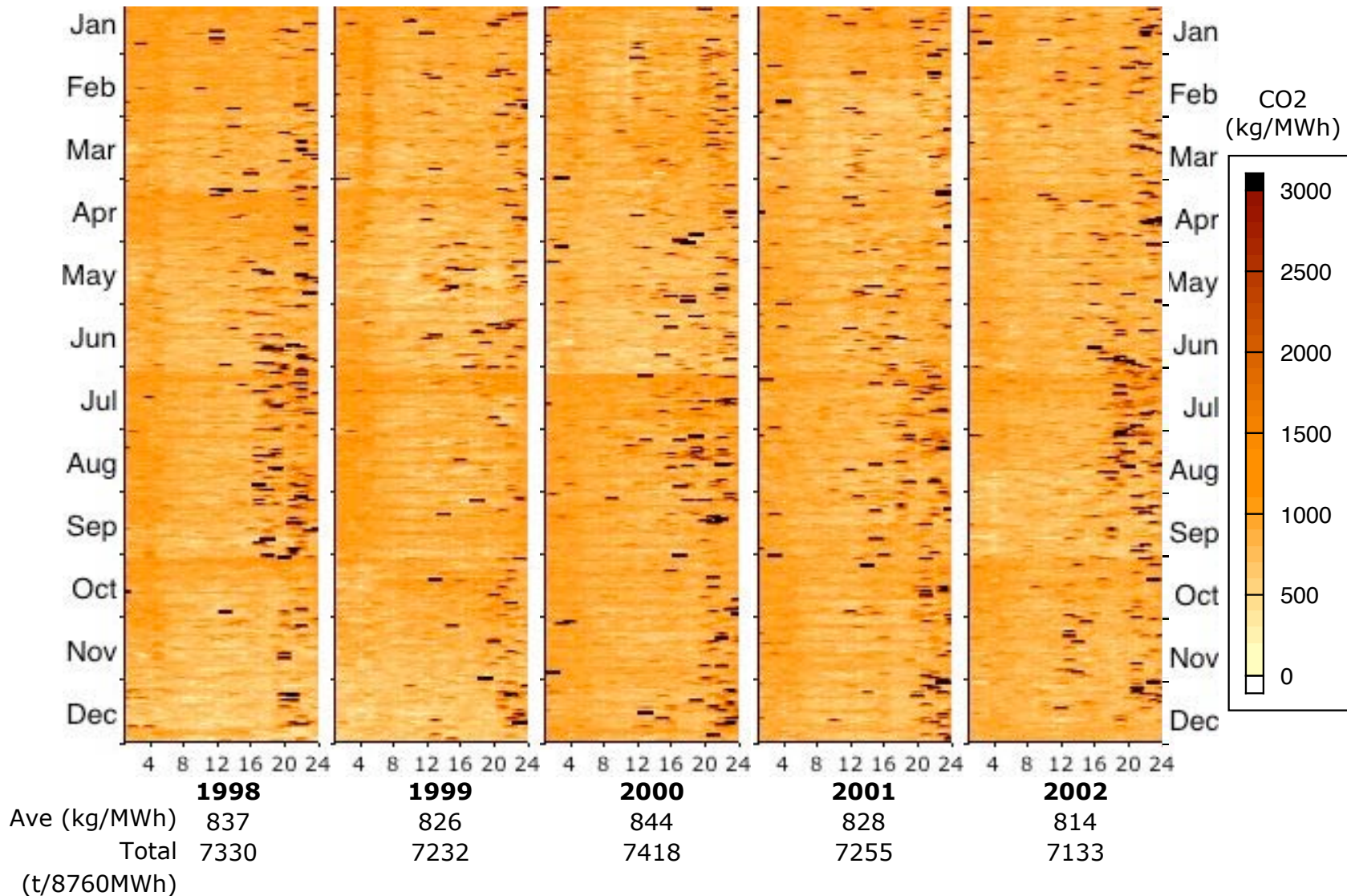


Figure BIIIc - 11. MANN – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in MANN (Wisconsin) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
MANS (Illinois) – (365 days x 24 hours)

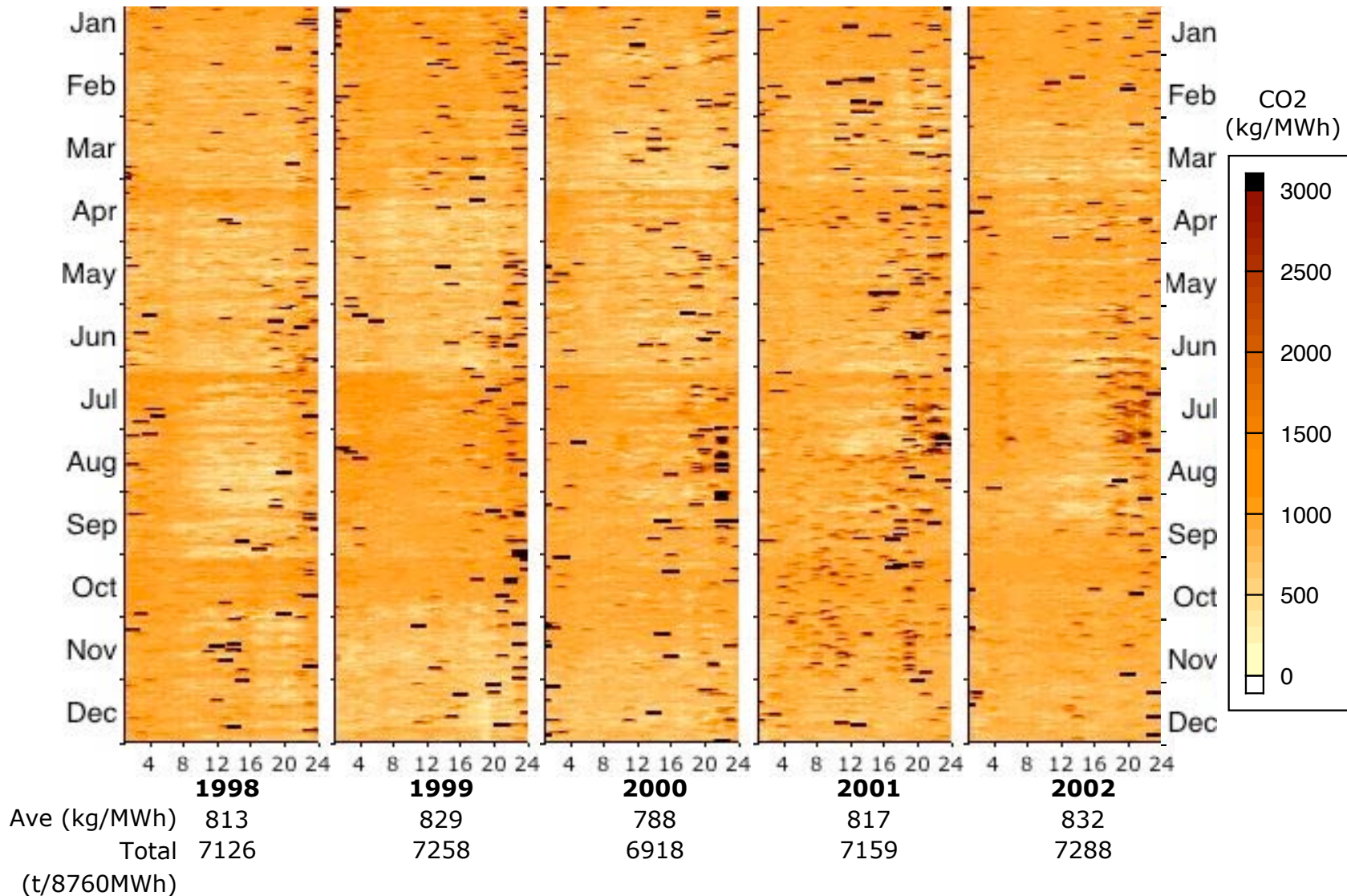


Figure BIIIc - 12. MANS – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in MANS (Illinois) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 SPNO (Kansas) – (365 days x 24 hours)

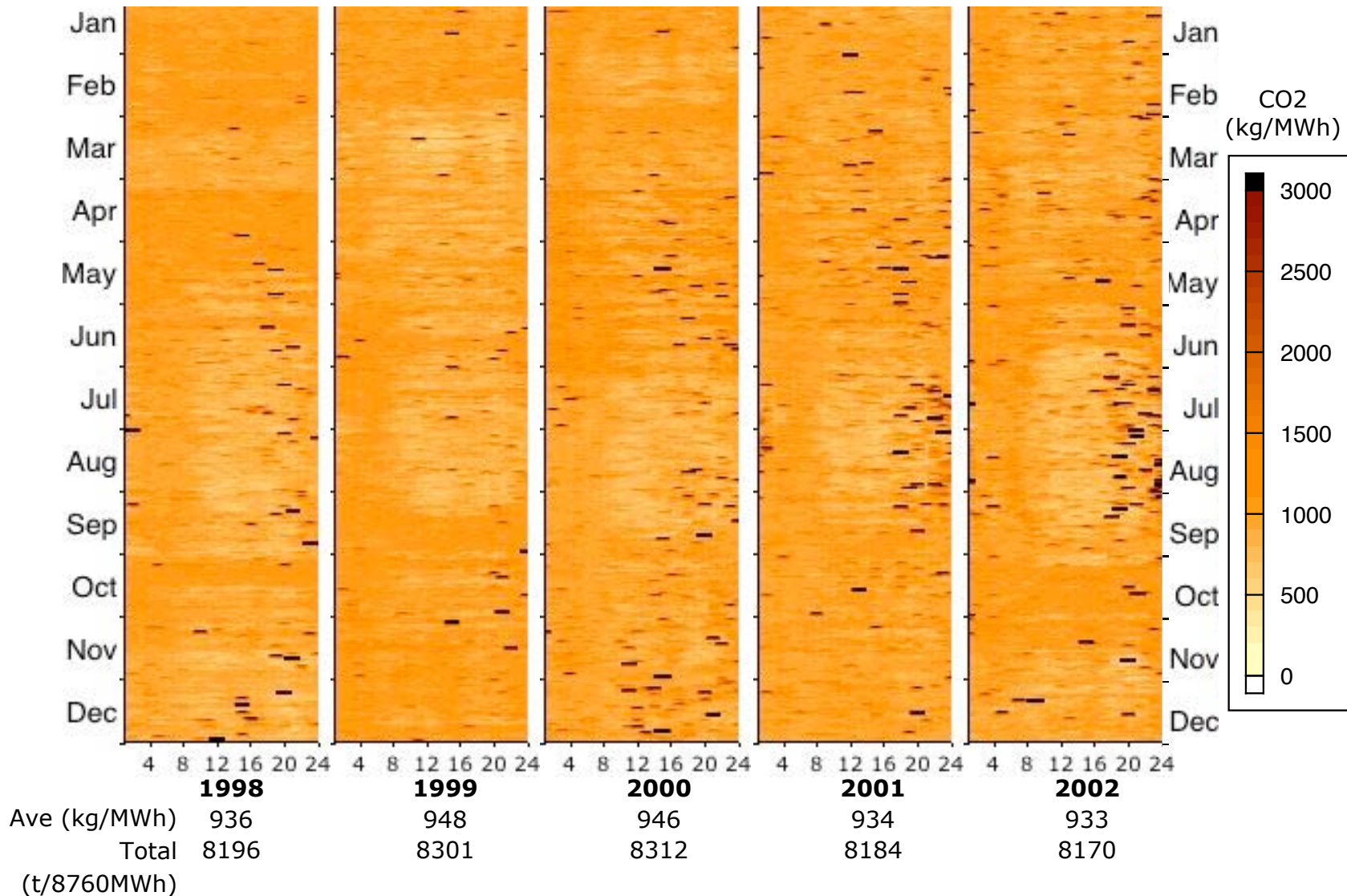


Figure BIIIc - 13. SPNO – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in SPNO (Kansas) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 SPSO (Oklahoma) – (365 days x 24 hours)

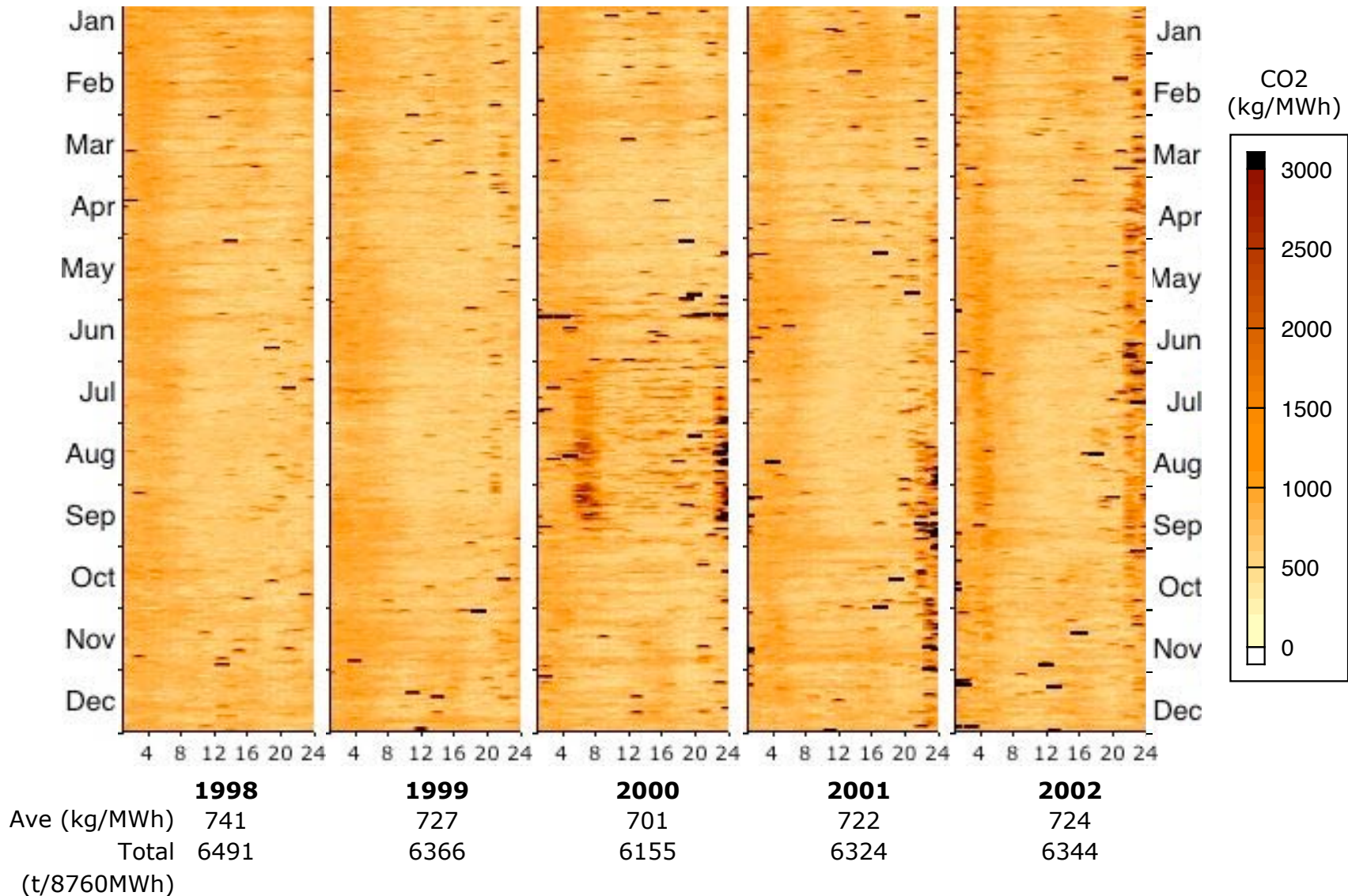


Figure BIIIc - 14. SPSO – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in SPSO (Oklahoma) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 ERCT (Texas) – (365 days x 24 hours)

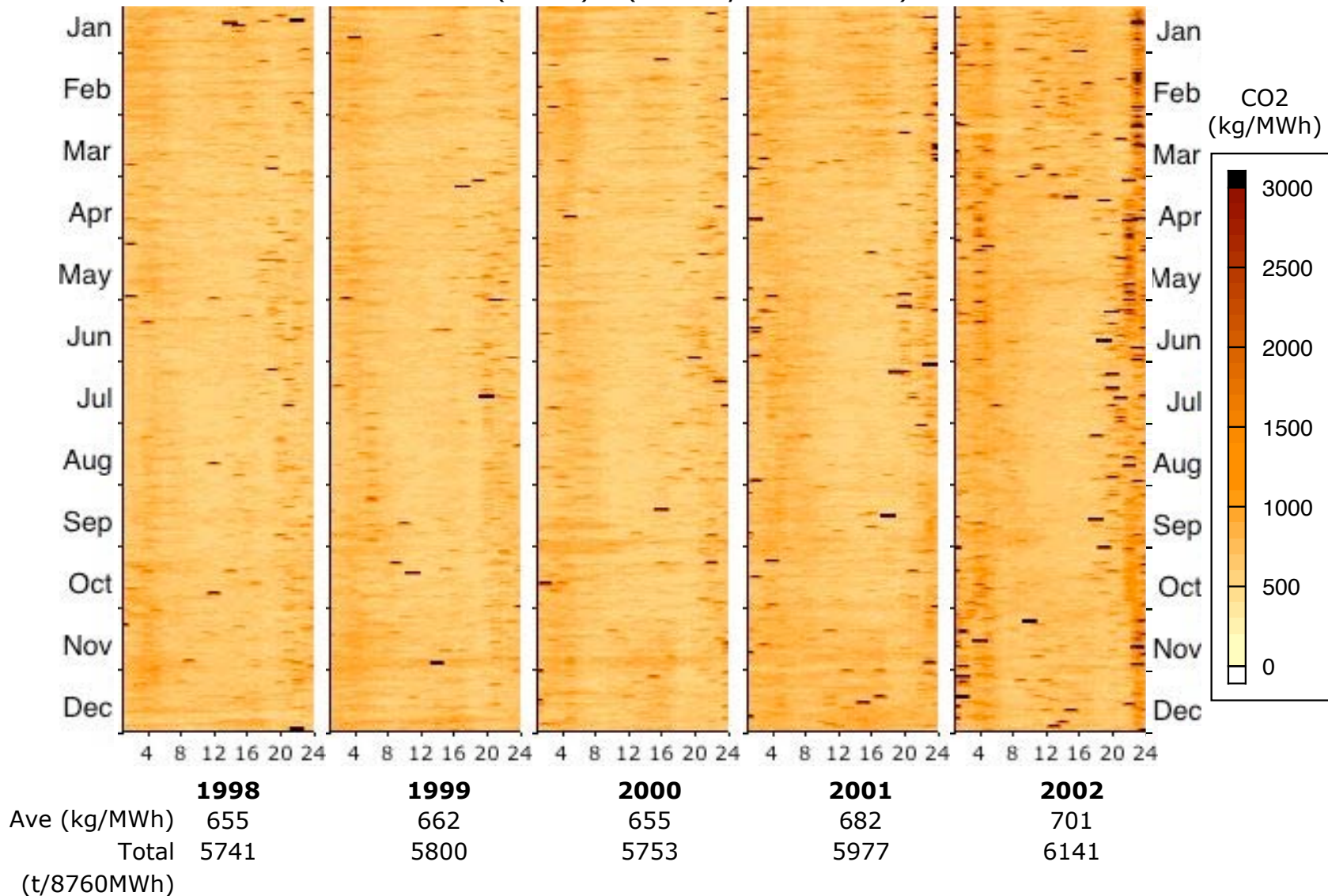


Figure BIIIc - 15. ERCT – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in ERCT (Texas) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
MAPP (Northern Plains) – (365 days x 24 hours)

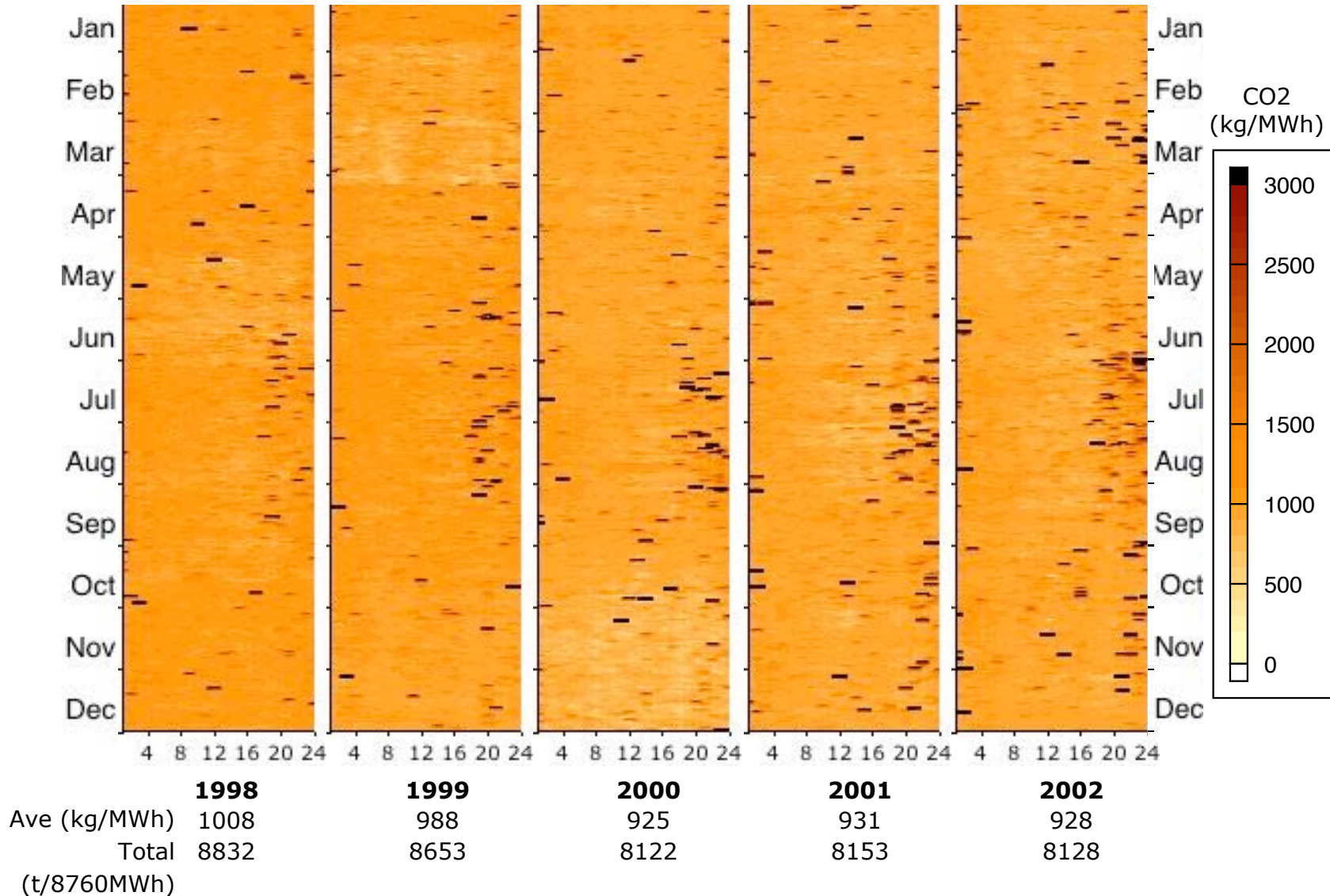


Figure BIIIc - 16. MAPP – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in MAPP (Northern Plains) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 ROCK (Colorado) – (365 days x 24 hours)

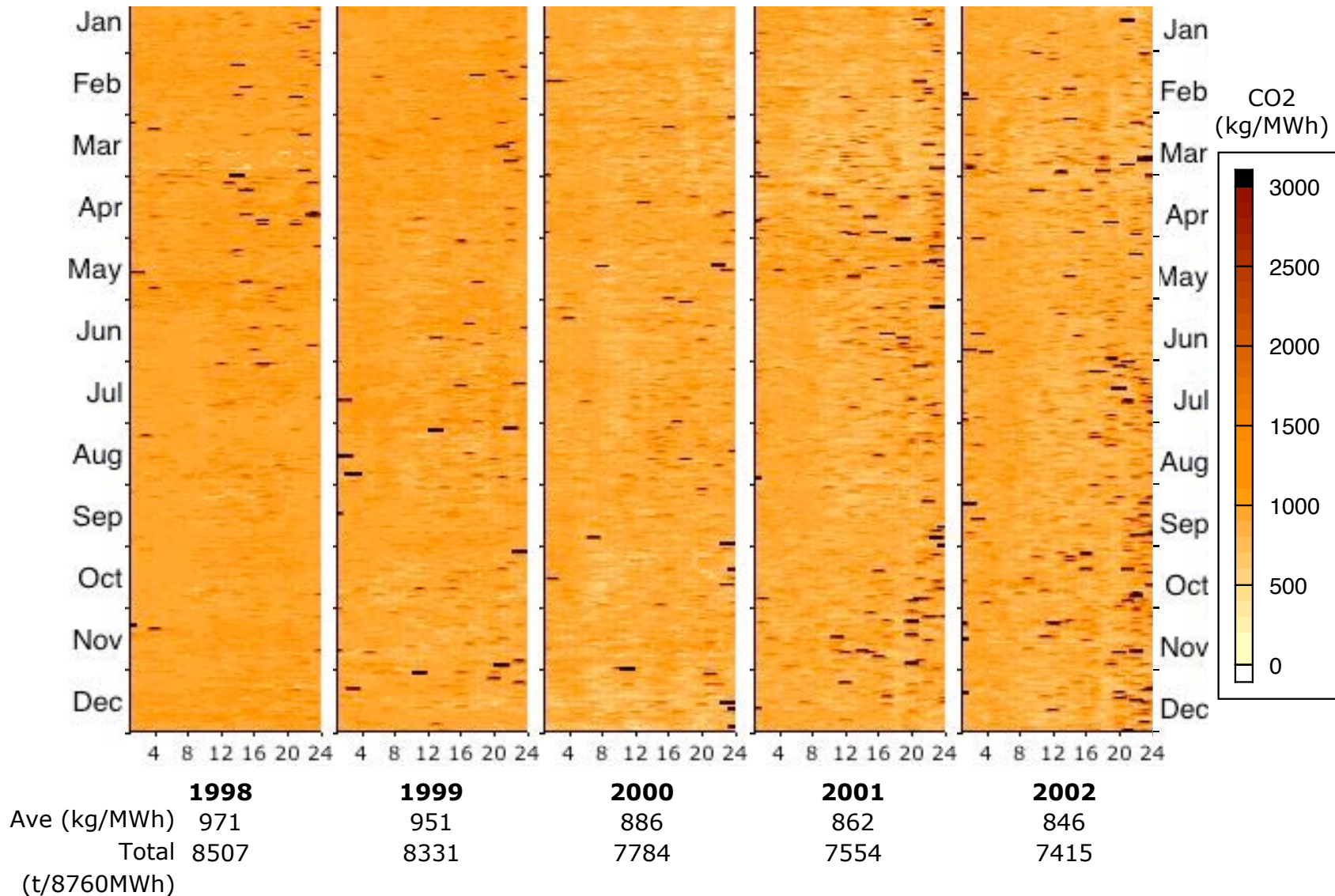


Figure BIIIc - 17. ROCK – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in ROCK (Colorado) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 NWGB (Great Basin) – (365 days x 24 hours)

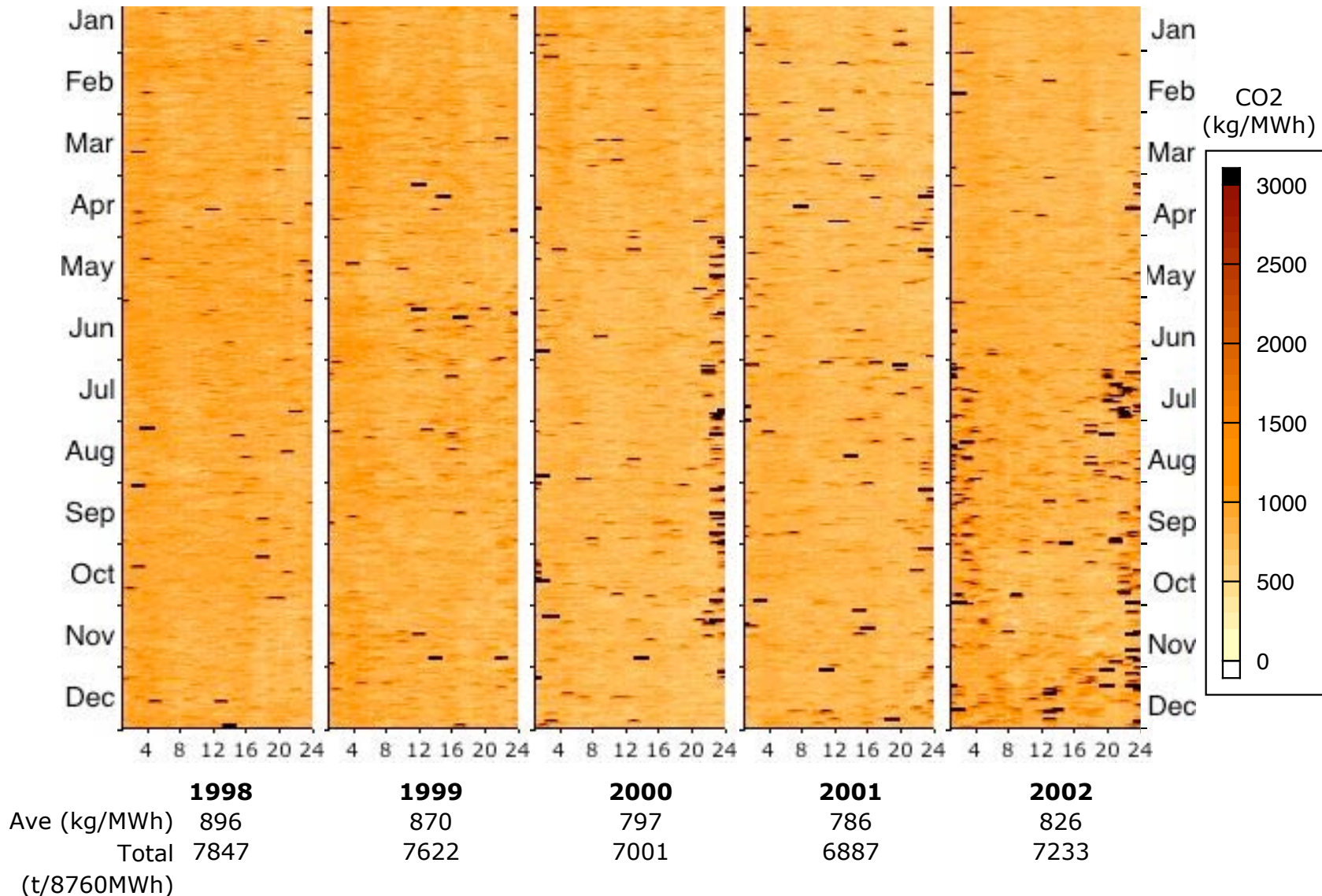


Figure BIIIc - 18. NWGB – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in NWGB (Great Basin) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 NWPN (Pacific Northwest) – (365 days x 24 hours)

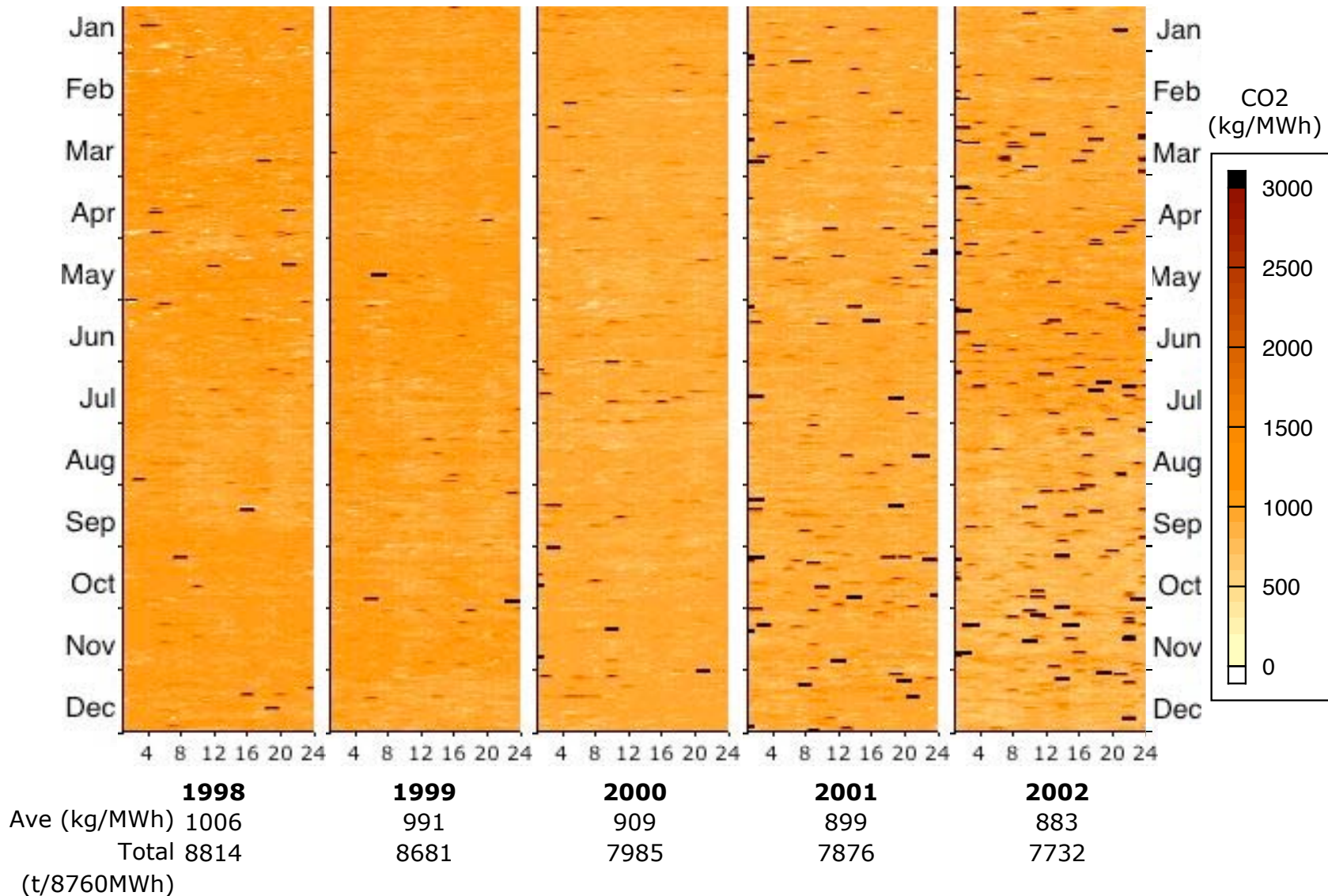


Figure BIIIc - 19. NWPN – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in NWPN (Pacific Northwest) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
WSSW (Southwest) – (365 days x 24 hours)

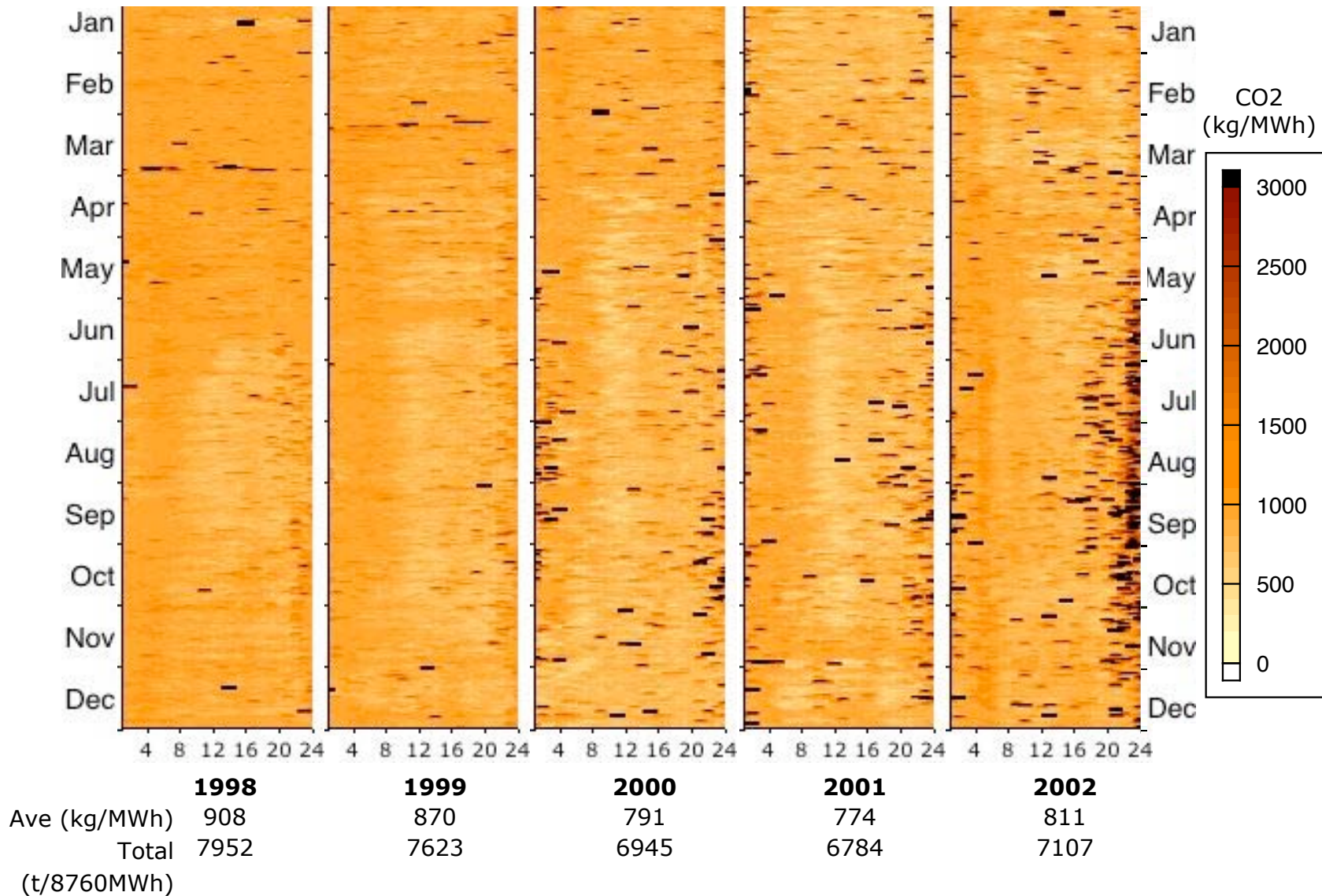


Figure BIIIc - 20. WSSW – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in WSSW (Southwest) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.

CO2 Load Shape Following Emission Rate – 1998 through 2002
 CALI (California) – (365 days x 24 hours)

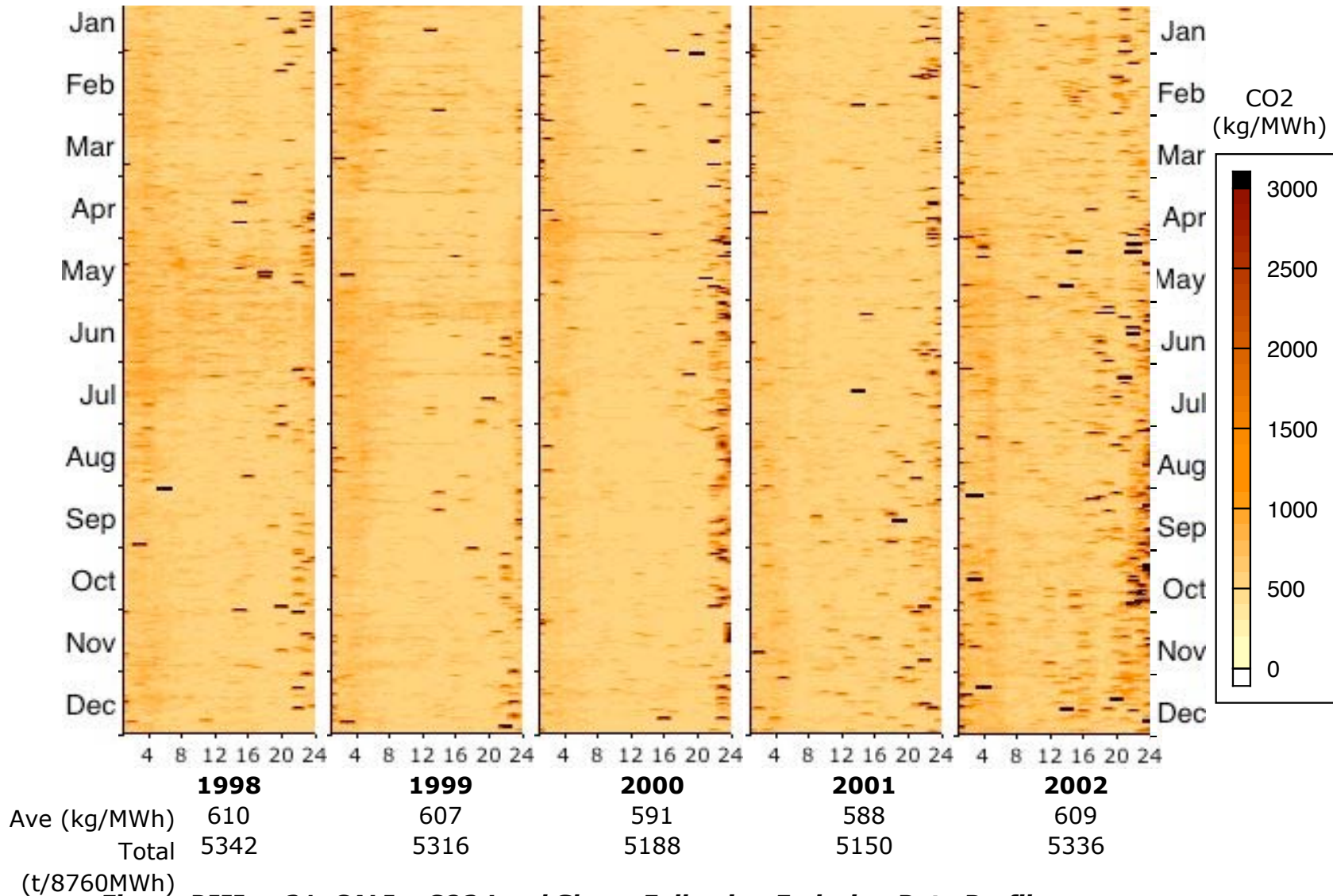


Figure BIIIc - 21. CALI – CO2 Load Shape Following Emission Rate Profiles

Contour plots show CO2 emissions (kg) from 1MWh of load shape following generation in each hour in CALI (California) for the years 1998 through 2002. Total emissions from 1MWh generated in each hour of the year (8760 MWh) and average yearly emission rates are shown below the profiles.