

Report and chapter titles	Recommended citation	URL link
Report-in-brief		https://carbon2018.globalchange.gov/downloads/SOCCR2_RIB.pdf
Second State of the Carbon Cycle Report	USGCRP, 2018: <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, 878 pp., https://doi.org/10.7930/SOCCR2.2018 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_2018_FullReport.pdf
Highlights	Shrestha, G., N. Cavallaro, L. Lorenzoni, A. Seadler, Z. Zhu, N. P. Gurwick, E. Larson, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, and P. Romero-Lankao, 2018: Highlights. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. -Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 1-4, https://doi.org/10.7930/SOCCR2.2018.Highlights .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Highlights.pdf
Preface	Shrestha, G., N. Cavallaro, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, N. P. Gurwick, P. J. Marcotullio, and J. Field, 2018: Preface. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. -Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 5-20, https://doi.org/10.7930/SOCCR2.2018.Preface .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Preface.pdf
Executive Summary	Birdsey, R., M. A. Mayes, P. Romero-Lankao, R. G. Najjar, S. C. Reed, N. Cavallaro, G. Shrestha, D. J. Hayes, L. Lorenzoni, A. Marsh, K. Tedesco, T. Wirth, and Z. Zhu, 2018: Executive summary. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 21-40, https://doi.org/10.7930/SOCCR2.2018.ES .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Executive_Summary.pdf
Chapter 1: Overview of the Global Carbon Cycle	Bruhwiler, L., A. M. Michalak, R. Birdsey, J. B. Fisher, R. A. Houghton, D. N. Huntzinger, and J. B. Miller, 2018: Chapter 1: Overview of the global carbon cycle. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 42-70, https://doi.org/10.7930/SOCCR2.2018.Ch1 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch1_Overview_Global_Carbon_Cycle.pdf
Chapter 2: The North American Carbon Budget	Hayes, D. J., R. Vargas, S. R. Alin, R. T. Conant, L. R. Hutyra, A. R. Jacobson, W. A. Kurz, S. Liu, A. D. McGuire, B. Poulter, and C. W. Woodall, 2018: Chapter 2: The North American carbon budget. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 71-108, https://doi.org/10.7930/SOCCR2.2018.Ch2 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch2_North_American_Carbon_Budget.pdf
Chapter 3: Energy Systems	Marcotullio, P. J., L. Bruhwiler, S. Davis, J. Engel-Cox, J. Field, C. Gately, K. R. Gurney, D. M. Kammen, E. McGlynn, J. McMahon, W. R. Morrow, III, I. B. Ocko, and R. Torrie, 2018: Chapter 3: Energy systems. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 110-188, https://doi.org/10.7930/SOCCR2.2018.Ch3 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch3_Energy_Systems.pdf
Chapter 4: Understanding Urban Carbon Fluxes	Gurney, K. R., P. Romero-Lankao, S. Pincetl, M. Betsill, M. Chester, F. Creutzig, K. Davis, R. Duren, G. Franco, S. Hughes, L. R. Hutyra, C. Kennedy, R. Krueger, P. J. Marcotullio, D. Pataki, D. Sailor, and K. V. R. Schäfer, 2018: Chapter 4: Understanding urban carbon fluxes. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 189-228, https://doi.org/10.7930/SOCCR2.2018.Ch4 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch4_Urban_Carbon.pdf
Chapter 5: Agriculture	Hristov, A. N., J. M. F. Johnson, C. W. Rice, M. E. Brown, R. T. Conant, S. J. Del Grosso, N. P. Gurwick, C. A. Rotz, U. M. Sainju, R. H. Skinner, T. O. West, B. R. K. Runkle, H. Janzen, S. C. Reed, N. Cavallaro, and G. Shrestha, 2018: Chapter 5: Agriculture. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 229-263, https://doi.org/10.7930/SOCCR2.2018.Ch5 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch5_Agriculture.pdf
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Chapter 8: Observations of Atmospheric Carbon Dioxide and Methane	Jacobson, A. R., J. B. Miller, A. Ballantyne, S. Basu, L. Bruhwiler, A. Chatterjee, S. Denning, and L. Ott, 2018: Chapter 8: Observations of atmospheric carbon dioxide and methane. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 337-364, https://doi.org/10.7930/SOCCR2.2018.Ch8 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch8_Atmosphere.pdf
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Chapter 15: Tidal Wetlands and Estuaries	Windham-Myers, L., W.-J. Cai, S. R. Alin, A. Andersson, J. Crosswell, K. H. Dunton, J. M. Hernandez-Ayon, M. Herrmann, A. L. Hinson, C. S. Hopkinson, J. Howard, X. Hu, S. H. Knox, K. Kroeger, D. Lagomasino, P. Megonigal, R. G. Najjar, M.-L. Paulsen, D. Peteet, E. Pidgeon, K. V. R. Schäfer, M. Tzortziou, Z. A. Wang, and E. B. Watson, 2018: Chapter 15: Tidal wetlands and estuaries. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. -Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 596-648, https://doi.org/10.7930/SOCCR2.2018.Ch15 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch15_Tidal_Wetlands_and_Estuaries.pdf
Chapter 16: Coastal Ocean and Continental Shelves	Fennel, K., S. R. Alin, L. Barbero, W. Evans, T. Bourgeois, S. R. Cooley, J. Dunne, R. A. Feely, J. M. Hernandez-Ayon, C. Hu, X. Hu, S. E. Lohrenz, F. Muller-Karger, R. G. Najjar, L. Robbins, J. Russell, E. H. Shadwick, S. Siedlecki, N. Steiner, D. Turk, P. Vlahos, and Z. A. Wang, 2018: Chapter 16: Coastal ocean and continental shelves. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 649-688, https://doi.org/10.7930/SOCCR2.2018.Ch16 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch16_Coastal_Ocean_and_Continental_Shelves.pdf

Chapter 17: Biogeochemical Effects of Rising Atmospheric Carbon Dioxide	Cooley, S. R., D. J. P. Moore, S. R. Alin, D. Butman, D. W. Clow, N. H. F. French, R. A. Feely, Z. I. Johnson, G. Keppe-I-Aleks, S. E. Lohrenz, I. B. Ocko, E. H. Shadwick, A. J. Sutton, C. S. Potter, Y. Takatsuka, A. P. Walker, and R. M. S. Yu, 2018: Chapter 17: Biogeochemical effects of rising atmospheric carbon dioxide. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 690-727, https://doi.org/10.7930/SOCCR2.2018.Ch17 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch17_Biogeochemical_Effects.pdf
Chapter 18: Carbon Cycle Science in Support of Decision Making	West, T. O., N. P. Gurwick, M. E. Brown, R. Duren, S. Mooney, K. Paustian, E. McGlynn, E. L. Malone, A. Rosenblatt, N. Hultman, and I. B. Ocko, 2018: Chapter 18: Carbon cycle science in support of decision making. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 728-759, https://doi.org/10.7930/SOCCR2.2018.Ch18 .	https://carbon2018.globalchange.gov/downloads/SOCCR2_Ch18_Decision_Support.pdf
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Appendix A: Report Development Process	Shrestha, G., 2018: Appendix A. Report development process. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 810-817, https://doi.org/10.7930/SOCCR2.2018.AppA .	https://carbon2018.globalchange.gov/downloads/SOCCR2_AppA.pdf
Appendix B: Information Quality in the Assessment	Shrestha, G., 2018: Appendix B. Information quality in the assessment. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 818-820, https://doi.org/10.7930/SOCCR2.2018.AppB .	https://carbon2018.globalchange.gov/downloads/SOCCR2_AppB.pdf
Appendix C: Selected Carbon Cycle Research Observations and Measurement Programs	https://doi.org/10.7930/SOCCR2.2018.AppC	https://carbon2018.globalchange.gov/downloads/SOCCR2_AppC.pdf
Appendix D: Carbon Measurement Approaches and Accounting Frameworks	Birdsey, R., N. P. Gurwick, K. R. Gurney, G. Shrestha, M. A. Mayes, R. G. Najjar, S. C. Reed, and P. Romero-Lankao, 2018: Appendix D. Carbon measurement approaches and accounting frameworks. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 834-838, doi: https://doi.org/10.7930/SOCCR2.2018.AppD .	https://carbon2018.globalchange.gov/downloads/SOCCR2_AppD.pdf
Appendix E: Fossil Fuel Emissions Estimates for North America	Jacobson, A. R., J. B. Miller, and K. R. Gurney, 2018: Appendix E. Fossil fuel emissions estimates for North America. In <i>Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report</i> [Cavallaro, N., G. Shrestha, R. Birdsey, M. A. Mayes, R. G. Najjar, S. C. Reed, P. Romero-Lankao, and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 839-843, doi: https://doi.org/10.7930/SOCCR2.2018.AppE .	https://carbon2018.globalchange.gov/downloads/SOCCR2_AppE.pdf
Appendix F: Acronyms, Abbreviations, and Units	https://doi.org/10.7930/SOCCR2.2018.AppF	https://carbon2018.globalchange.gov/downloads/SOCCR2_AppF.pdf
Appendix G: Glossary	https://doi.org/10.7930/SOCCR2.2018.AppG	https://carbon2018.globalchange.gov/downloads/SOCCR2_AppG.pdf