## ANNE C. FETROW, Ph.D.

Curriculum Vitae

NSF EAR Postdoctoral Fellow Earth & Environmental Sciences Department University of Michigan, Ann Arbor, MI afetrow@umich.edu 651-233-0027 | she/her/hers Google Scholar: https://rb.gy/iqp6et

#### INTERESTS & EXPERTISE

Stable isotope and environmental geochemistry; paleoclimatology; paleoenvironments; terrestrial sedimentology.

#### **APPOINTMENTS**

NSF Postdoctoral Fellow	June 2023 – May 2025
Earth & Environmental Sciences Department, University of Michigan, Ann Arbor, MI	·
Visiting Assistant Professor	August 2022 – May 2023
Earth and Climate Sciences Department, Bates College, Lewiston, ME	·
PhD Candidate, Research Fellow, and Course Instructor	August 2016 – July 2022
Department of Geological Sciences, University of Colorado Boulder, Boulder, CO	

#### **EDUCATION**

PhD, Geologie	cal Sciences, University of Colorado Boulder	2016 - 2022
Thesis:	Paleoclimate and paleoelevation changes of the Western US during the Cretaceous	
Advisor:	Dr. Kathryn Snell	
DG G 1	77. 1. O. D O 1	2011 2017

BS, Geology, University of Puget Sound

2011 - 2015

Cum Laude; Coolidge Otis Chapman Honors Scholar. Minor: Environmental Policy & Decision

Making

Thesis: Temperature changes and Great Plains ecosystem evolution during the Pliocene to the Pleistocene in Meade Basin,

KS using clumped isotope thermometry

Advisor: Dr. Kena Fox-Dobbs

## FELLOWSHIPS & SCHOLARSHIPS

Marcy and Bruce Benson Graduate Fellowship, Geological Sciences, University of Colorado Boulder	2021 – 2022
Graduate Research Fellowship, National Science Foundation (NSF GRFP)	2018 - 2021
Edwards Graduate Fellowship, Geological Sciences, University of Colorado Boulder	2017
Peter K. Wallerich Scholarship, Geology, University of Puget Sound	2014
Coy & Nadine Mobley Scholarship, Geology, University of Puget Sound	2014
Blaine Wiseman Scholarship, Geology, University of Puget Sound	2013

#### RESEARCH

#### **PUBLICATIONS**

**Fetrow, A. C.**, Snell, K. E., Di Fiori, R. V., Long, S. P., & Bonde, J. W. (2022). How hot is too hot? Disentangling mid-Cretaceous hothouse paleoclimate from diagenesis. *Paleoceanography and Paleoclimatology*, 37. doi.org/10.1029/2022PA004517

Ingalls, M., **Fetrow**, A. C., Snell, K. E., Frantz, C., Trower, L. (2021). Lake level controls the recurrence of giant stromatolite facies. *Sedimentology*. doi.org/10.1111/sed.12967

Di Fiori, R., Long, S. P., **Fetrow, A. C.,** Snell, K. E., and Bonde, J. W., and Vervoort, J. D. (2021) The role of shortening in the Sevier hinterland within the U.S. Cordilleran retroarc thrust system: Insights from the Cretaceous Newark Canyon Formation in central Nevada. *Tectonics*, v. 40, p. 1-31. doi.org/10.1029/2020TC006331

Bernasconi, S.M., Daëron, M., Bergmann, K.D., Bonifacie, M., Meckler, A.N., Affek, H.P., Anderson, N., Bajnai, D., Barkan, E., Beverly, E., Blamart, D., Burgener, L., Calmels, D., Chaduteau, C., Clog, M., Davidheiser-Kroll, B., Davies1, A., Dux, F., Eiler, J., Elliott, B., **Fetrow, A.C.,** et al. (2021). InterCarb: A community effort to improve interlaboratory standardization of the carbonate clumped isotope thermometer using carbonate standards. *Geochemistry, Geophysics, Geosystems*, v. 22, p. 1-25. doi.org/10.1029/2020GC009588

- **Fetrow, A. C.**, Di Fiori, R., Snell, K. E., Long, S. P., and Bonde, J. W. (2020) Early Sevier Orogenic Deformation Exerted Principal Control on Changes in Depositional Environment Recorded by the Cretaceous Newark Canyon Formation. *Journal of Sedimentary Research*, v. 90, p. 1–22. doi.org/10.2110/jsr.2020.52
- Di Fiori, R., Long, S. P., **Fetrow, A. C.,** Snell, K. E., Bonde, J. W., and Vervoort, J. D. (2020) Syncontractional deposition of the Cretaceous Newark Canyon Formation, Diamond Mountains, Nevada: Implications for strain partitioning within the US Cordillera. Geosphere, v. 16 (2), p. 546-566. doi.org/10.1130/GES02168.1
- Fox, D. L., Martin, R. A., Roepke, E., **Fetrow, A. C.,** Fischer-Femal, B., Uno, K. T., Fox-Dobbs, K., Snell, K. E., Haveles, A., and Polissar, P. J. (2017) Biotic and Abiotic Forcing During the Transition of Modern Grassland Ecosystems: Evolutionary and Ecological Responses of Small Mammal Communities Over the Last 5 Million Years. *Earth-Life Transitions: Paleobiology in the Context of Earth System Evolution, Paleontological Society Paper*, v. 21, p. 197-218. doi.org/10.1017/S1089332600003016
- \*\*\* Other research presentations (colloquiums, conference presentations, and abstract co-authorships) listed at end of CV

#### **ON-GOING PROJECTS**

\*\*Significant authorship contribution to proposal, but unable to be listed as co-PI due to appointment status

No significant surface uplift of the North American Sevier Hinterland by the mid-Cretaceous determined by carbonate clumped isotope paleoaltimetry  Nevada, USA. In collaboration with: Snell, K. E., Di Fiori, R., Long, S. P., and Bonde, J. W.	Manuscript in prep
Quantifying evaporation in Mono Basin: Bridging the gap between hydrologic modeling and paleoclimate records using triple oxygen and clumped isotope geochemistry (NSF EAR PF#: 2204433)  Mono Basin, California, USA. In collaboration with PIs Levin, N. E., Passey, B. H., Gronewold, A. D. Also funded by **Meet the Moment grant, University of Michigan (2022-2024)	On-going, funded
A dual clumped isotope approach to characterize disequilibrium in terrestrial carbonates.  Great Basin, USA and BC, Canada. In collaboration with lead-PI Ingalls, M., Penn. State University **Proposal funded by NSF Geobiology & Low-Temperature Geochemistry (Award#: 2244707)	On-going, funded
Developing an isotopic framework for palustrine (i.e., wetland) carbonate formation to inform paleoclimate and environmental research	On-going

Las Tablas de Daimiel National Park, Spain. In collaboration with: Alonso-Zarza, A. M., Snell, K. E.

## FUNDING & AWARDS

Research Grants, funded	
Friends of the Graduate School Fellowship, Graduate School, University of Colorado Boulder.	2020
Research Grant, Geological Sciences, University of Colorado Boulder	2020, 2018
McCormick Scholar Summer Research Grant, Geology, University of Puget Sound	2013
Travel Grants, funded	
AGU Student Volunteer, American Geophysical Union	2019
Conference Travel, Geological Sciences, University of Colorado Boulder	2019
Conference Travel, United Government of Graduate Students, University of Colorado Boulder	2018
Conference Travel, Graduate School, University of Colorado Boulder	2018
Conference Travel, Goldschmidt Conference	2017
Honors, unfunded	
Best Field Camp Student Award, 6-week Field Camp, Lehigh University	2015
Norman R. Anderson Award, Geology, University of Puget Sound	2015
Roderick MacArthur Honors Award, Honors Program, University of Puget Sound	2015
Seniors of Excellence Award, Student Affairs, University of Puget Sound	2015
Leadership Award, Student Affairs, University of Puget Sound	2015, 2014

# TEACHING

Course Instruction	
Environmental Geochemistry (EACS 240), Primary Instructor, Bates College  Lecture/lab focused on understanding the behavior of aqueous ions during interactions between the lithosphere, hydrosphere, and atmosphere and connecting these processes to local environmental examples/issues. Designated as "writing intensive course" that fulfills degree requirement for discipline-specific writing. Managed instructional team of a full-time course assistant and two student TAs. Enrollment: 20	Spring 2023
Past Climates and Paleoclimate Proxies (EACS 231), Sole Instructor, Bates College Lecture course focused on understanding the geochemical proxies and sedimentological evidence used to reconstruct paleoclimates. Enrollment: 18	Spring 2023
Earth Surface Processes & Environmental Change (EACS 103), Primary Instructor, Bates College Introductory lecture/lab focused on developing skills in description of Earth's materials, and spatial and temporal analysis of sedimentological environments, and discussion of climate change-driven environmental change. Managed instructional team of full-time course assistant and two student TAs. Enrollment: 20	Fall 2022
Stable Isotope Geochemistry (EACS 341), Sole Instructor, Bates College Lecture course that examines the fundamental principles of stable isotope fractionation and the current state of major stable isotope proxy tools (e.g., H, O, C, N, S, and Ca). Enrollment: 6	Fall 2022
Introduction to Geochemistry (GEOL 3320), Primary Instructor, University of Colorado Boulder Lecture/recitation course exploring formation and chemical differentiation of Earth, modification of Earth surface by chemical weathering and mineral dissolution/precipitation, and how redox biogeochemistry shapes aquatic environments. Managed a teaching assistant (graduate student peer). Enrollment: 45	Spring 2020
TEACHING ASSISTANT	
Introduction to Geochemistry (GEOL 3320), University of Colorado Boulder	Spring 2017
Introduction to Physical Geology (GEOL 1030), 2 sections, University of Colorado Boulder Biogeochemical Approaches to Environmental Science (GEO 324), University of Puget Sound	Fall 2016 Fall 2014
GUEST LECTURES AND INSTRUCTION	
Guest lecture, "Clumped Isotopes: Systematics and Applications"  Stable Isotope Geochemistry (EACS341), Bates College	2023
Guest instructor, <i>Earth Camp</i> Assisted with instruction of four-day, field-based module focused on lake water quality for high school-aged students, University of Michigan Earth and Environmental Sciences department	2023
Guest lecture, "Applications of Clumped Isotopes in Paleoclimatology"  Biogeochemical Approaches to Environmental Science (GEO 324), University of Puget Sound	2021, 2019
Guest lecture, "Clumped Isotopes: Systematics and Applications" Introduction to the Fossil Record (GEO 306), University of Puget Sound	2020
Guest lecture, "Stable Oxygen Isotopes and Paleoclimate" Exploring Earth (GEOL 1010) course, University of Colorado Boulder	2018
Guest field instructor Introduction to the Fossil Record (GEO 306), University of Puget Sound	2017, 2016
MENTORING & SERVICE	
STUDENT THESES MENTORSHIP	
Senior Undergraduate Thesis (2-semester), Earth and Climate Sciences, Bates College Maddy Broda. Advised student through project involving field skills (water isotope and quality sampling), data production and interpretation (in-house: major ions; external: $\delta^2$ H, $\delta^{18}$ O), and scientific writing.	2022 – 2023
Honors Undergraduate Thesis mentor, Geological Sciences, University of Colorado Boulder Anna Todd. Advised student on field skills (section measurement, description, sediment sampling), data production and interpretation, and professional writing. Served as a non-voting member of honors senior thesis defense committee for undergraduate geology major.	2017 – 2019

### **OTHER MENTORING**

Indigenous Scholars Mentoring Program mentor	January – May 2022
Virtual mentorship program coordinated by the Center for Diverse Leadership in Science, University of	
California Los Angeles. Weekly professional and education mentoring sessions with student from Navajo	
Technical University, Crownpoint, NM.	
GEOL graduate peer mentor, University of Colorado Boulder	2020 - 2022
Peer mentor to an incoming Geological Sciences graduate student.	
Graduate School peer mentor, University of Colorado Boulder	2019 - 2022
Peer mentor to an incoming STEM graduate student.	
Research Experience in Solid Earth for Students writing mentor, University of Colorado Boulder	Summer 2019
Scientific writing mentor for RESESS undergraduate student from traditionally underrepresented	
backgrounds in the geosciences.	
Graduate Admission in The Earth Sciences (GATES) mentor	2018 - 2019
Mentor to undergraduate students interested in pursuing graduate school.	

# PROFESSIONAL DEVELOPMENT

### **CERTIFICATES**

Certificate in College Teaching (CCT)

Fall 2021

March 2023

Center for Teaching and Learning, University of Colorado Boulder

50+ hours of pedagogy workshops and trainings, classroom experience, and teaching evaluations by graduate student peers and Geological Sciences faculty.

## **COMPUTATIONAL SKILLS**

Active Ally Training, Bates College

Expert – Microsoft Office, Adobe Suite

Advanced – R (Routinely processes data, conducts statistical analyses, and generates publication-quality data visualizations) Intermediate/Beginner – Python, MatLab, and Jupyter Notebooks (Experience during graduate-level coursework)

# TRAININGS, WORKSHOPS, & SHORT COURSES

Active Any Training, Bates Conege	Widi Cii 2023
Workshop focused on supporting LGTBIA+ students through proactive pedagogy strategies.	
Inclusive Community of Practice, University of Colorado Boulder	2020 - 2022
Community member in campus-wide group designed to share best practices on topics related to diversity,	
inclusion, equity, and social justice in weekly workshops and discussions.	
"Effective Bystander Intervention Training"	2020
Office of Institutional Equity and Compliance workshop, University of Colorado Boulder	
"Establishing and Sustaining an Undergraduate Research Program"	2019
Early career scientist workshop, American Geophysical Union, San Francisco, CA	
"Engaged Scientist Workshop"	2019
Office for Outreach and Engagement, University of Colorado Boulder	
Urbino Summer School in Paleoclimatology, Urbino, Italy.	July 2018
Focus: "Past Global Change Reconstruction & Modelling Techniques"	
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LEADERSHIP & COMMITTEE EXPERIENCE	
Unlearning Racism in Geoscience Education, Geological Sciences, University of Colorado Boulder	2021 - 2022
URGE Pod organizer for group dedicated to share, discuss, and modify anti-racist policies and strategies.	
Geology Social Misconduct Awareness and Reaction Team (Geo-SMART).	2017 - 2021
President and founding member, Geological Sciences, University of Colorado Boulder	
Faculty Meetings	2019 - 2021
Graduate Student Representative, Geological Sciences, University of Colorado Boulder	
Department Action Team – "Assessing undergraduate curriculum learning outcomes"	2017 - 2019
Committee member, Geological Sciences, University of Colorado Boulder.	
Geological Sciences Colloquium Social Hour	2017 - 2018
Founder and lead coordinator, Geological Sciences, University of Colorado Boulder	
Colloquium Committee	2016 - 2018
Committee member, Geological Sciences, University of Colorado Boulder	
Society of Sigma Gamma Epsilon, University of Puget Sound.	2015
Chapter officer and founding member of university of Puget Sound's chapter	

Girls at the Museum Exploring Science (GAMES), University of Colorado Boulder	2020, 2019, 201
Tour and activity facilitator, CU Boulder Earth Systems Stable Isotope Laboratory.	
CU Science Discovery Day Camp, University of Colorado Boulder	Summer 2019
Guest laboratory guide.	
"Are they melting? Reconstructing past climates to examine our changing world."	2018, 2017
Workshop developer and leader for Expanding Your Horizons conference serving middle school-aged	,
girls interested in STEM hosted at University of Colorado Boulder.	
"How to explore ecosystems: a wetland case study", Horizons K-8 Elementary School, Boulder, CO	2017
Guest instructor and developed lesson plan for 4 <sup>th</sup> grade students.	
MEMBERSHIPS & HONOR SOCIETIES	
American Geophysical Union (AGU)	Since 2013
Geologic Society of America (GSA)	Since 2013
Society of Sigma Gamma Epsilon	Since 2015
OUTDOOR EXPERIENCE	
LEADERSHIP AND EDUCATION	
YMCA Camp Seymour, Gig Harbor, WA	2015 - 2016
Outdoor educator and naturalist for middle school-aged students	
Puget Sound Outdoors (PSO), University of Puget Sound	2013 - 2013
Program and Trip Coordinator	
Outdoor Leadership Experience (OLE), University of Puget Sound	2011 - 2013
Facilitator and Coordinator	
Puget Sound Outdoors Program, University of Puget Sound	2012 - 2013
Trip Leader, day and overnight trips	
New Student Orientation, University of Puget Sound	2012 - 2013
Trip Leader, multiple overnight trips	
FIELD SAFETY CERTIFICATIONS	
Wilderness First Responder (WFR) certification	Certificate Active
National Outdoor Leadership School, 80-hour course including CPR certification. Recertified: August	
2023, August 2017. Original certification: May 2014.	
Conflict Resolution Training	November 2019
Office of Institutional Equity and Compliance, University of Colorado Boulder	3.5 1.001
AIARE 1 Avalanche Training certification	March 2018
The American Institute for Avalanche Research and Education	
RESEARCH CONTINUED	
Invited Colloquium & Seminar Talks	
Marine Chemistry and Geochemistry Colloquium series, Woods Hole Oceanographic Institute	June 2023
Earth Sciences Seminar series, University of Idaho and Washington State University (joint)	March 2023
CONFERENCE PRESENTATIONS	
Talks	_
(Invited) Fetrow, A. C., Snell, K. E., Di Fiori, R., Long, S. P., and Bonde, J. W. Mid-Cretaceous Sevier Hinterland at Low Surface Elevation Based on Carbonate Clumped Isotopes: Geological Society of America Abstracts with Programs v. 50, no. 5, 9-12 Oct. doi.org/10.1130/abs/2022AM-380820	2022

Abstracts with Programs, v. 50, no. 5, 9-12 Oct. doi.org/10.1130/abs/2022AM-380820

<b>Fetrow</b> , A. C., Snell, K. E., Di Fiori, R., Long, S. P., and Bonde, J. W. <i>Paleoaltimetry estimates suggest low surface elevations for the mid-Cretaceous Newark Canyon Formation within the Sevier hinterland</i> . Abstract EP026-03 presented at 2020 Fall Meeting, AGU, Virtual, 1-17 Dec.	2020
<b>Fetrow, A. C.,</b> Snell, K. E., Di Fiori, R., Long, S. P., and Bonde, J. W. <i>Palustrine environments of the Early Cretaceous 'Nevadaplano' record warm and wet conditions. Abstract PP51A-08 presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.</i>	2018
Posters	
Fetrow, A. C., Snell, K. E., Di Fiori, R., Long, S. P., and Bonde, J. W. To Split or to Lump? The Importance of Facies Analysis for Interpreting Stable Isotope Paleoclimate Proxies from Lacustrine and Palustrine Carbonates. Abstract PP15C-0937 presented at 2021 Fall Meeting, AGU, New Orleans, LA, 1-17 Dec.	2021
<b>Fetrow, A. C.,</b> Snell, K. E., Di Fiori, R., Long, S. P., and Bonde, J. W. <i>Assessing how mid-latitude North America responded to a warmed Cretaceous climate using stable single and clumped isotope geochemistry.</i> Abstract PP13C-1468 presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.	2019
<b>Fetrow, A. C.,</b> Snell, K. E., and Alonso-Zarza, A. M. <i>Using modelling and modern calibration to determine the timing and driving forces of carbonate precipitation in palustrine environments.</i> Rocky Mountain Geobiology Symposium, Boulder, CO, USA.	2019
<b>Fetrow, A. C.,</b> Snell, K. E. Determining the timing and driving forces of carbonate precipitation in palustrine environments to inform paleoclimate and paleoelevation estimates. International Clumped Isotope Workshop, Long Beach, CA, USA.	2019
<b>Fetrow, A. C.,</b> Snell, K. E. Reconstructing the depositional setting of the Early Cretaceous palustrine and lacustrine terrestrial sediments through a modern depositional framework. Urbino Summer School in Paleoclimatology, Urbino, Italy.	2018
<b>Fetrow, A. C.,</b> Snell, K. E. Reconstructing the palustrine and lacustrine depositional setting of the Cretaceous Newark Canyon Formation, Nevada. Rocky Mountain Geobiology Symposium, Golden, CO, USA.	2018
<b>Fetrow, A. C.,</b> Snell, K. E., Di Fiori, R., Long, S. P., and Bonde, J. W. A Paleoclimatic record from the "Nevadaplano" during the middle Cretaceous using stable and clumped isotope thermometry. Goldschmidt, Paris, France.	2017
Fetrow, A. C., Snell, K. E., Fox-Dobbs, K., Fox, D. L., Polissar, P. J., Uno, K. T., Martin, R. A., and Feinberg, J. Temperature changes and Great Plains ecosystem evolution during the Pliocene to the Pleistocene in Meade Basin, KS using Clumped Isotope Thermometry. Geological Society of America Abstracts with Programs. Vol. 46, No. 6, p.522. Vancouver, Canada.	2014
Fetrow, A. C., Ivener, D., McKinley, E. M., Fox-Dobbs, K., and Foreman, B. Swauk It Out: Carbon isotopic analysis of the Tertiary Swauk Formation, Central Cascades, WA. Geological Society of America Abstracts with Programs. Vol. 45, No. 7, p.769. Denver, CO, USA.	2013
<b>Fetrow, A., C.</b> , Valentine, M. <i>Paleomagnetic and structural analysis of the basalts of the Summit Creek, Central Cascades, WA</i> . Abstract T11D-2495 presented at 2013 Fall Meeting, AGU, San Francisco, CA, USA, 9-13 Dec.	2013
CONFERENCE ABSTRACT CO-AUTHORSHIP	
Fox-Dobbs, K., Clementz, M., <b>Fetrow, A. C.,</b> Snell, K. E. Clumped Isotope Temperatures from Beaver Teeth: Do Semi-Aquatic Mammals Record the Temperatures of Their Freshwater Environments?: Geological Society of America Abstracts with Programs, v. 54, no. 5, 9-12 Oct. doi.org/10.1130/abs/2022AM-383015	2022
Di Fiori, R., Long, S. P., <b>Fetrow, A. C.,</b> Snell, K. E., Bonde, J. W., and Vervoort, J. D. Shortening in the Sevier hinterland within the larger framework of the Cordilleran retroarc thrust system: insights from mapping and geochronology of the Cretaceous Newark Canyon Formation in central Nevada, U.S.A. Abstract T52B-06 presented at 2021 Fall Meeting, AGU, New Orleans, 1-17 Dec.	2021
Di Fiori, R., Long, S. P., <b>Fetrow, A. C.,</b> Snell, K. E., Bonde, J. W., and Vervoort, J. D. Shortening episodes in the Sevier hinterland within the larger context of the Cordilleran retroarc thrust system: Insights from the Cretaceous Newark Canyon Formation in central Nevada. Abstract T039-0012 presented at 2020 Fall Meeting, AGU, Virtual, 1-17 Dec.	2020
Di Fiori, R., Long, S. P., <b>Fetrow, A. C.,</b> Snell, K. E., Bonde, J. W., and Vervoort, J. D. Syncontractional deposition of the Cretaceous Newark Canyon Formation, Diamond Mountains, Nevada: Implications for strain partitioning within the US Cordillera. Geological Society of America Abstracts with Programs. Vol. 51, No. 5. 10 1130/pbs/2010 AM 335173	2019

Snell, K. E., Fetrow, A. C., Havranek, R., and Colwyn, D. Advances in disentangling temperature, tectonics, and	2019
hydroclimate signals from stable isotope values of terrestrial carbonates. Geological Society of America	
Abstracts with Programs. Vol. 51, No. 5. 10.1130/abs/2019AM-341152.	
Snell, K.E., Uno, K. T., Lukens, W. E., Fetrow, A. C., Fox, D. L., Layzell, A. L., Burgess, C. S., Fox-Dobbs, K.,	2019
Haveles, A. W., Polissar, P. J., and Martin, R. A. No change in clumped isotope temperatures during C4	
grassland expansion in the Meade Basin, Kansas, during the Pliocene. Geological Society of America Abstracts	
with Programs. Vol. 51, No. 5. 10.1130/abs/2019AM-339432.	
Snell, K. E., Havranek, R., Fetrow, A. C., and Colwyn, D. Terrestrial carbonate perspective on $\delta^{18}O$ of	2019
precipitation over the last ~100 million years in the western US from clumped isotope thermometry. Water	
Isotopes Conference, Boulder, CO. Poster.	
Snell, K. E., Eiler, J. M., Wernicke, D. J., Peppe, D. J., Fox, D. L., Fetrow, A. C., Passey, B. H. Disentangling	2014
Topographic and Climatic Change during the Late Cretaceous and Cenozoic in the Western US Cordillera.	
Abstract T21C-4616 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.	
Haveles, A. W., Fox-Dobbs, K., Talmadge, K. A., Fetrow, A. C., Fox, D. L. Characterizing isotopic variability of	2012
primary production and consumers in Great Plains ecosystems during protracted regional drought. Abstract	
B32B-08 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.	