

Susan Alexandra Crate, Ph. D.

Assistant Professor of Human Ecology
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Research and Teaching Interests

- ◆ Human Ecology, Environmental Anthropology, Cultural & Political Ecology, Sustainability Research
- ◆ Climate Change, Indigenous Knowledge, Community Sustainability, Globalization
- ◆ Subsistence Economies, Sustainable Development, Environmental Justice
- ◆ Ethnography, Oral History, Community Participatory, Qualitative and Quantitative Research Methods
- ◆ Northern Siberia, Russia, Arctic and Sub-arctic, Circumpolar North

Academic Positions

- Aug 2004-
date Assistant Professor of Human Ecology
George Mason University, Department of Environmental Science and Policy
- Aug 2002-
July 2004 Postdoctoral Fellow, Havighurst Center for Russian and Post-Soviet Studies
Miami University of Ohio, Geography and Environmental Science

Education

- 1997-2002 Ph.D. in Ecology, **The University of North Carolina at Chapel Hill, Curriculum in Ecology**
Dissertation title: *Cows, Kin & Capitalism: The Cultural Ecology of Vilini Sakha in the Post-Socialist Era*
Defended 17 December 2001, Graduated 21 May 2002
- 1989-1994 M. A. in Folklore, **The University of North Carolina at Chapel Hill, Curriculum in Folklore**
Masters thesis title: *Dance of Life, Circle of Life: Ahyokhai as the Sakhas' Emergent Ethnic Voice*
- 1988-1991 **Intensive Russian Language & Culture Studies:** Kharkov State University, Kharkov, Ukraine,
Moscow State University, Moscow, Russia, Zaporozhye Institute, Zaporozhye, Ukraine
- 1979-1983 **Warren Wilson College, Swannanoa, North Carolina**
B. A. in Environmental Studies, with a concentration in education

Awards and Support

- 2007-10 **National Science Foundation, Office of Polar Programs, Arctic Social Science Program grant 0710935**
Assessing Knowledge, Resilience & Adaptation and Policy Needs in Northern Russian Villages Experiencing
Unprecedented Climate Change. **S. Crate, P.I. \$342,000.**
- 2009 **National Science Foundation, Arctic Social Science/** for organization of circumpolar workshop in
Climate Change and Indigenous Agency, Rovaneimi, Finland, May 2009, **S. Crate, P.I. \$25,000 pending.**
- 2010-12 **National Science Foundation, Office of Polar Programs, Arctic System Science Program**
Understanding Climate-Driven Phenological Change - Observations, Adaptations and Cultural Implications in

- Northeastern Siberia and Labrador/ Nunatsiavut (PHENARC) **S. Crate, P.I. \$621,000 *pending*.**
- 2003-06 **National Science Foundation, Arctic Social Science Program grant 0532993:** "Investigating the Economic and Environmental Resilience of Viliui Sakha Villages: Building Capacity, Assessing Sustainability, Gaining Knowledge." **S. Crate, P.I. \$90,000.**
- 2006-08 **Chesapeake Watershed Cooperative Ecosystem Studies Unit/National Park Service grant 105792** Development of a spatially explicit participatory model to explore anthropogenic on-site threats on rare aquatic resources of the Potomac Gorge" **co-PI. \$130,000.**
- 2007-08 **Sustainability Across the Curriculum 2-day GMU Faculty Workshop** Jan 16 & 17 2007/ Jan 14 & 15, 2008. Planned, Fund-raised, solicited participants, and facilitated 2-day workshop for GMU faculty from across departments to develop syllabi embracing the ethic of sustainability. **\$20,000 (2007) \$12,000 (2008).**
- 2005-06 **Chesapeake Watershed Cooperative Ecosystem Studies Unit/National Park Service** Managing the impacts of surrounding land uses on the rare biotic resources of the Potomac Gorge **co-PI. \$11,000.**
- 2006-date **University Life Faculty Fellowship** awarded for the continued coordination of a university-wide Task Force to facilitate faculty, students and staff to address campus greening. **\$4000.**
- 2001-02 **Social Science Research Council Dissertation Write-Up Fellowship:** Funding to write dissertation, 2001-2002 academic year.
- 2001 **Latane Interdisciplinary Summer Research Grant:** Funding for 2-months of research in Alaska.
- 2000-01 **American Association of University Women (AAUW) Dissertation Write-up Award:** Funding to write dissertation, 2000-2001 academic year.
- 2000 **Smith Graduate Research Fund Grant.** Funding for the collection of data for dissertation.
- 1999-00 **National Science Foundation Dissertation Improvement Award:** Funding for dissertation research.
- 1999-00 **Fulbright-Hays Doctoral Research Abroad Award:** Funding for dissertation research.
- 1999-00 **Social Science Research Council International Dissertation Field Research Fellowship:** Funding for dissertation research.
- 1999-00 **International Research & Exchange Board (IREX) Individual Advanced Research Award:** Funding for dissertation research.
- 1999-00 **Foreign Language & Area Studies Slavic, Eurasian & East European Fellowship:** (declined).
- 1999-00 **United States Information Agency Regional Scholar Exchange Program Award:** (declined).
- 1996-97 **John D. & Catherine T. MacArthur Foundation:** Funding for the Indigenous Policy Research Project.
- 1994-95 **John D. & Catherine T. MacArthur Foundation:** Funding for the Viliui Environmental Education Project.
- 1993-94 **International Research and Exchange Board (IREX) On-Site Language Training Grant:** Funding to learn the Sakha (Yakut) Language.

Research Experience

- 2007-10 **Assessing Knowledge, Resilience & Adaptation and Policy Needs in Northern Russian Villages Experiencing Unprecedented Climate Change.** Collaborative research project focusing on understanding local perceptions and cultural implications of global climate change in indigenous arctic communities.
- 2003-06 **Investigating the Economic and Environmental Resilience of Viliui Sakha Villages: Building Capacity, Assessing Sustainability, Gaining Knowledge.** Four-village applied research project to develop, assess, and implement local indigenous models of sustainability.
- 2001 **A Preliminary Comparative Analysis of Alaskan and Sakha Villages.** Two month project working in Alaska with village members and tribal councils comparing contemporary issues.
- 1999-00 **The Cultural Ecology of a Post-Socialist Society: The Case of Viliui Sakha.** Dissertation research to investigate how Viliui Sakha agropastoralists are adapting in the post-Soviet context on a household food production level.
- 1996-97 **Diamonds for the Sakha: An Indigenous Policy Research Project.** Directed a two-year project with

- indigenous specialists investigating local response to diamond mining activity.
- 1994-95 **Viliui Environmental Education Project.** Directed a two-year project with indigenous specialists establishing an environmental education center and resource guide.
- 1993-94 **On-Site Language Training.** Participated in 9-month Sakha language immersion.
- 1990-92 **Ethnographic Field Research.** Participated in field research projects with local ethnographers documenting the songs, stories, dances, and material culture of the Buryat, Tuvan, Ukrainian, Evenk, and Sakha peoples.
- 1991 **Photographer.** Documented the cultural and natural heritage of Lake Baikal and participated as one of four contributing photographers to Sierra Club book *Baikal: The Sacred Sea of Siberia*.

Publications*

Books:

- 2009 *Anthropology and Climate Change: From Encounters to Actions*. (ed, with Mark Nuttall) Walnut Creek: Left Coast Press.
- 2006 *Cows, Kin and Globalization: An Ethnography of Sustainability*. Walnut Creek: Alta Mira Press.

Peer Reviewed Articles:

- 2008 Gone the Bull of Winter: Grappling with the Cultural Implications of and Anthropology's Role(s) in Global Climate Change. *Current Anthropology*, 49(4).
- 2008 Eating Hay: The Ecology, Economy and Culture of Viliui Sakha Smallholders of Northeastern Siberia. *Human Ecology*. 36:161-174.
- 2008 Walking Behind the Old Women: Sacred Cow Knowledge in the 21st Century. *Human Ecology Review* 15(2):115-129
- 2008 Climate Change and Human Rights. *Anthropology News* 49(5): 34-45.
- 2008 Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. In *Proceedings of Calotte Academy 2007: New Northern Dimension*. Ed. Lassi Heininen Rovaniemi: University of Lapland: 81-92.
- 2007 Cows and Kin: Innovations and Issues in Post-Soviet Indigenous Communities. *IJARGE*. 6 (6): 679-692.
- 2007 "Taiga"; "Clean Development Mechanism"; "Genetic Diversity"; "Native Species", in Paul Robbins, ed., *Encyclopedia of Environment and Society*, Sage Publications.
- 2006 Investigating Local Definitions of Sustainability in the Arctic, *Arctic* 59(3) 115-131.
- 2006 Elder Knowledge and Sustainable Livelihoods in Post-Soviet Russia: Finding Dialogue Across the Generations. *Arctic Anthropology*. 43(1):40-51.
- 2006 *Obuokai*: A Unique Integration of Social Meaning and Sound, *Journal of American Folklore*.119(472): 161-183.
- 2004 Russia in the Circumpolar North, with Mark Nuttall, *Polar Geography*, 27(2) (April-June 2003): 85-96.
- 2003 Viliui Sakha Adaptation: A Subarctic Test of Netting's Smallholder Theory. *Human Ecology*,31(4): 499-528.
- 2003 The Great Divide: Contested Issues of Post-Soviet Viliui Sakha Land Use. *Europe-Asia Studies*, 55(6): 869-888.
- 2003 Co-option in Siberia: The Case of Diamonds & the Vilyuy Sakha. *Polar Geography*, 26(4) (2002): 289-307.
- 2003 The Legacy of the Viliui Reindeer Herding Complex. *Cultural Survival Quarterly*, 27(1): 25-27.
- 2002 Viliui Sakha Oral History: The Key to Contemporary Household Survival. *Arctic Anthropology* 39(1): 134-154.

Peer Reviewed Chapters:

- 2009 Climate Change and Viliui Sakha: Encountering Culture. In Susan A. Crate and Mark Nuttall, eds. *Anthropology and Climate Change: From Encounters to Actions*. Walnut Creek, Ca: Left Coast Press.
- 2009 Viliui Sakha of Sub-arctic Russia and their Struggle for Environmental Justice In Julian Agyeman and Yelena Ogneva-Himmelberger, eds. *Environmental justice in the Former Soviet Union*, Boston: MIT Press.
- 2009 Climate and Culture. In Alpina Begossi and Priscila Lopes, eds. *Current Trends in Human Ecology*, Newcastle upon Tyne: Cambridge Scholars Publishing: 34-55.
- 2008 Indigenous people and mineral resource extraction in Russia: the Case of Diamonds, with Natalia Yakovleva In Ciaran O'Faircheallaigh and Saleem Ali, eds. *Earth Matters: Indigenous Peoples, the Extractive Industries and Corporate Social Responsibility*. Sheffield, UK: Greenleaf Publishing.

* All publications are single-authored unless otherwise noted

2004 The Gendered Nature of Viliui Sakha Post-Soviet Adaptation, in *Post-Soviet Women Encountering Transition*. Baltimore: John Hopkins University Press, pp. 127-145.

In press:

-Contact with Nature: Developing Robust Human Development Indicators for Arctic Communities. In Larsen, Joan and Peter Schweitzer, eds. *Arctic Social Indicators*. Arctic Council.

Books In Prep:

-*Water in Mind: Perceptions of Climate Change in Siberia*. [monograph based on 2007-2010 NSF project]

Articles In Prep:

-Culture and Climate Change *under contract for Annual Review of Anthropology, volume 39*.

-Water in Mind: Exploring Narratives, Perceptions and Responses to the Uncertain Water Regimes of Climate Change. To submit to *Human Organization*.

-Contemplating the Agency of Indigenous Rights: Sakha and Saami Encountering Global Climate Change. To submit to *Acta Borealia*.

Other publications:

2006 Huntington, Henry (lead), **Crate, Susan A.**, et al. Working Group I: Arctic Economies and Sustainable Development, Science Plan. ICARP II http://www.icarp.dk/WGreports/WG1_final.PDF

2005 The Sakha, in Carl Skutsch, ed., *Encyclopedia of World's Minorities*, New York: Routledge, 1052-1053.

2004 Sakha, in Carol and Melvin Ember, eds. *Encyclopedia of Sex and Gender*. New York: Kluwer, pp. 768-778.

2001 Book Review of John Tichotsky's *Russia's Diamond Colony*. *Nationalities Papers*, 29(4):729-731.

1997 Silent Spring in Siberia: The Plight of the Sakha. *Cultural Survival Quarterly*, 20 (4):14-16.

1995 *Kvek Teen* (Green Spirit). Bichik Press: Yakutsk.

1995 Environmental Problems in Sakha, Siberia. *Surviving Together*, 13 (4): 17-19.

1994 *Dance of Life, Circle of Life*, M.A. Thesis, UNC-Chapel Hill, 1994.

1992 *Baikal: The Sacred Sea of Siberia*. Sierra Club Books, 1992. Contributing Photographer.

1992 At Home in Siberia. *Cultural Survival Quarterly*, 16 (1):61- 64.

Selected Presentations

October 2008. Climate Change and Human Rights in Northeastern Siberia, Russia, Invited speaker for Stanford University Law School's Shaking the Foundations Progressive Lawyering Conference.

November 2007. Resilience and Adaptation in Siberia: From Colonization to Diamonds to Climate Change AND Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. Anthropology of Global Change: Challenges for the Discipline in the 21st Century, Invited Speaker series, Anthropology, University of Tennessee, Knoxville, TN.

November, 2007. Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. GMU Society & Science Lecture Series.

August 2008. Assessing Knowledge, Resilience & Adaptation and Policy Needs in Sakha Villages of Northeastern Siberia Facing Climate Change. 6th International Congress of Arctic Social Sciences (ICASS VI), Nuuk, Greenland.

October 2007. Climate Change and Culture Change in NE Siberia. The XVth International Conference of the Society for Human Ecology (SHE XV), Rio de Janeiro, Brazil.

November 2007. Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. American Anthropology Meeting (AAA), Washington DC.

January 2008. Assessing Knowledge, Resilience & Adaptation and Policy Needs in Viliui Sakha Villages of NE Siberia, Russia Facing Unprecedented Climate Change. NCSE Conference. Washington, DC. (poster)

April 2008. Water in Mind: Exploring Narratives, Perceptions and Responses to the Uncertain Water Regimes of Climate Change for Sakha of northeastern Siberia, Russia. Society for Applied Anthropology (SfAA), Memphis, Tenn.

May 2008. Assessing Knowledge, Resilience & Adaptation and Policy Needs in Viliui Sakha Villages of Northeastern Siberia, Russia Facing Unprecedented Climate Change. Arctic Research Consortium of the US Annual Meeting,

- Washington, DC. (poster)
 June 2007. Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. Calotte Academy, Inari, Finland.
 May 2007. Gone the Bull of Winter: Climate Change and Culture Change in Northeast Siberia. National Association of Clean Air Agencies Spring Membership Meeting, Louisville, Kentucky.
 Feb 2007. Resilience & Adaptation in Siberia: Colonization, Diamonds and Climate Change, Anthropology, MSU.
 Nov 2006. Climate Change and Culture Change in NE Siberia, AAA, San Jose, CA.
 Oct 2006. Gone the Bull of Winter, SHE XIV, Bar Harbor, ME.
 Apr 2006. Cows, Kin and Karats: Negotiating Survival on Top of a Diamond Mine. SfAA, Vancouver, CA.
 Nov 2005. What's Diamonds Got to Do With It? AAA, Washington, DC.
 Sep 2005. Climate Change and Viliui Sakha, International Society for Ecological Restoration, Zaragosa, Spain.
 Apr 2005. Elder Knowledge and Sustainable Livelihoods in Post-Soviet Russia: Finding Dialogue Across the Generations. SfAA, Santa Fe, NM.
 Dec 2004. Cows, Kin and Globalization: Indigenous Sustainability in Post-Soviet Russia. Canadian Circumpolar Institute, Edmonton, Alberta.
 Dec 2004. Investigating Indigenous Sustainability in Viliui Sakha Villages, AAASS, Boston, Mass.
 Oct 2004. Contemplating Environmental Justice on the Viliui. Environmental Justice Abroad, Rutgers, NJ.
 May 2004. Locating Circumpolar Environmental Change: Environmental and Indigenous Impacts of Diamond Mining in Post-Soviet Siberia. ICASS V, Fairbanks, Alaska.
 Feb 2004. Participation as Empowerment: Sustainable Communities Research. The Power of Intersectionality, Miami University (MU), Oxford, Ohio.
 Nov 2003. Indigenous Ideas of Sustainability in Northern Russia, Havighurst Colloquium, MU.
 Nov 2003. Russia's Indigenous Peoples: Using Historical Geography to Teach about Peoples without History. American Association for the Advancement of Slavic Studies, Annual Meeting, Toronto, Ontario.
 April 2003. Cows, Kin, and Future Sustainability: The Cultural Ecology of Viliui Sakha in the Post-Soviet Era. Anthropology Colloquium, MU.
 March 2003. Arctic Visiting Speaker Bureau, Fairbanks Alaska. Invited Speaker. Presented talks about ongoing research activities for University of Alaska Fairbanks Colloquiums, schools, and the public radio.
 Nov 2002. Applying Anthropology: Can Models from the West Work in a Post-Soviet Context? AAA, New Orleans.
 Nov 2002. Russia's Environment: History, Culture and Contemporary Issues, Stetson University, Deland, FL.
 Oct 2002. How Can Issues of Environmental Justice Gain Importance on the Russian Environmental Agenda? Russia's Environment: Prospects and Possibilities, Miami U.
 Sep 2002. Cows & Kin: An Evolving Research Agenda, Northern Research Forum (NRF) 2002, Novgorod, Russia.
 Nov 2001. The Legacy of the Viliui Reindeer-Herding Complex, AAA, Washington, DC.
 Oct 2001. Applying History and Memory as Adaptive Strategies, American Folklore Society, Anchorage, Alaska.
 May 2001. Oral History as Key to Contemporary Survival, ICASS IV Quebec, Canada.
 Feb 2001. Waking Up in Siberia: Cows, Kin & the Viliui Sakha, SOYUZ, Berkeley, California.
 Mar 1999. Diamond Mining in Post-Soviet Russia: Accounting for the Past and Future, SOYUZ, Bloomington, Indiana.
 Mar 1999. The Contemporary Yhyakh. Central Eurasian Studies Conference, Bloomington, Indiana.

Symposiums and Workshops

- Jan 07/08 Organizer, Sustainability Across the Curriculum: 2-day training for faculty. GMU.
 Nov 2003 Organizer, 2003 Havighurst Annual International Young Researchers Conference, Russia in Global Context: Peoples, Environments, Policies, MU.
 Nov 2003 Co-organizer, Window to the North: Peoples and Environments of the Arctic, MU.
 Oct 2002 Co-organizer, discussant, and session chair, Russia's Environment: Prospects and Possibilities, MU.
 Oct 2002 Discussant, Placing Gender in Postcommunism, MU.

2001-02 Gender Role Reversals and Sakha Women, Role of Women in Post-Communist Transition Workshop, Kennan Institute, Washington, DC.

Dec 2000. The Case of Elgeei, Still Red: Socialism in Practice Workshop, UNC-Chapel Hill, NC.

Apr 1998. Discussant, Environmental Justice, Women, Environment and Empowerment, Racine, WI.

Working Groups and Steering Committees

2006-date Arctic Social Indicators Working Group, Team Leader, Stefansson Arctic Institute Akureyri, Iceland

2004-date Northern Research Forum (NRF) Steering Committee Member, Helsinki, Finland

2004-05 International Conference on Arctic Research Planning II (ICARP II), Member, Working Group 1.

Professional Memberships

- ◆ International Arctic Social Science Association (IASSA)
- ◆ American Anthropological Association (AAA)
- ◆ Society for Applied Anthropology (SfAA)/ Spring 2007 elected to Fellow status

Teaching Experience

2004-to date **Assistant Professor, George Mason University:**

Grad-level: Fall 2008: EVPP 741: The Human Dimensions of Global Climate Change

Spring 2007: EVPP 741: Qualitative Research Methods for Social Scientists

Spring '05-'08: EVPP 741/ ANTH 580: Culture & Environment in Local to Global Perspectives

Fall '04-'08: EVPP 635/ ANTH 580: Advanced Seminar in Human Ecology

UG-level: Spring '06/'07: EVPP 336: Environment and Society

Spring 2008: EVPP 353: People, Plants and Culture

Fall 2007: EVPP 490: Fostering Sustainability in the 21st Century

2002-2004 **Postdoctoral Fellow, Miami University:** Instructor for:

Spring 2004: GEO 307: Geography of Russia and Eurasia

ANTH 306: Peoples and Cultures of Russia and Eurasia

Fall 2003: RUS/POL/GEO/HST/ANTH/FST 133: Imagining Russia: Film as a Window to Cultures

GEO/IES/ITS/ATH 410: Russia in Global Context: Peoples, Environments, Policies

Spring 2003: GEO/ ANTH /ITS /IES 410/ 510: Cultures and Environments of Russia

Fall 2002: GEO/ IES / ITS 410/ 510: International Environmental Affairs: Russia

1997-01 **Teaching Assistantship, UNC CH:** Led recitation sections, assisted students, wrote and graded exams, occasionally lectured.

Fall 2001: EST 35: Environment and Society, with Dr. Greg Gangi

Spring 1999: BIO 11: Human Anatomy

Spr, Fall 1998: EST 35: Environment and Society, with Dr. Greg Gangi

Fall 1997: BIO 45: Ecology and Population Biology

Current Graduate Students

Serve as Major Advisor:

Ph.D.: Kwame Boakye-Agyei, Robin Brake, Renee Crain, David McDonald, Vivek Prasad, Charles Milling,

M.A.: Jeremy Alcorn

Serve as Committee Member:

Ph.D.: Amy Bauer, Jenny Cordrey, Megan Draheim, Darrell Smith, Maction Komwa, Irina Stoyanova, Todd Watkins

M.A.: Mittpheap Steele, Dorothy Wong

Completed: Joanna Cornell PhD, Hari Bansha Dulal PhD, Irina Stoyanova MA

Service

- 2007/08 **Sustainability Across the Curriculum co-coordinator**- facilitated 2-day faculty development workshop with 20 (2007) and 12 (2008) faculty from 10 disciplines to instill sustainability in GMU course curriculum.
- 2007/08 **The Climate Project presenter**- offers community presentations on global climate change based on training by Al Gore
- 2005-07 **Environmental Task Force co-coordinator**- holds monthly meetings of students, faculty, and administrators to facilitate campus-wide greening projects.
- 2005-on **Undergraduate Degree Committee**- Environmental Science & Policy, George Mason University
- 2005-on **Executive Committee**- Environmental Science & Policy, George Mason University
- 2004-07 **Earth Week '05, '06, '07 co-coordinator**- holds bimonthly meetings beginning in December through May to organize two weeks of activities celebrating Earth Day at GMU, focusing on climate change and hosting keynote speaker: '05 David Orr/'06 Bill McKibben/'07 Janisse Ray.
- 2004-07 **Chair's Advisory Committee**, Environmental Science & Policy, George Mason University
- 2004 **Policy Search Committee**, Environmental Science & Policy, George Mason University
- 2002 **Search Committee**, Ecology Curriculum, UNC-Chapel Hill.
- 2001-02 **Graduate Teaching Assistant Liaison**, Ecology Curriculum, UNC-Chapel Hill.

Language Skills

Sakha (Yakut): fluent spoken, reading & writing

Russian: fluent spoken, reading & writing

References

Dr. Bruce Winterhalder (Ph.D. advisor)
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 Edmonton, Alberta Canada T6H 2H4
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 University of North Carolina at Chapel Hill
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 Chapel Hill, NC 27599-3435
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 University of North Carolina at Chapel Hill
 Department of Anthropology / Folklore
 305 C Alumni Building
 Chapel Hill, North Carolina 27599-3115
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 Santa Cruz, California 95061
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 Boulder CO 80309-0450
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