

ASPB 2021 –Content of the lectures

ASPB1101 Introduction to the Arctic

Principal tutor: Jukka Jokimäki

Title of the lecture	Introduction to the Arctic and Boreal nature (2 hours)
Teacher	Jukka Jokimäki & Marja-Liisa Kaisanlahti-Jokimäki
Main content	General classification/types/distribution maps of Arctic/Boreal areas Differences between Arctic and Antarctic areas Special features of Arctic and Boreal areas; including physical characteristics, typical animal species Taiga forests; differences between natural and managed forests Threats of arctic/boreal fauna; including climate change Overview of the adaptation methods
Literature	Crawford 2012: Tundra-Taiga Biology; Thomas et al. 2008: The Biology of Polar regions; Arctic Flora and Fauna Report; Arctic Human Development Report <i>Literature (compulsory for the whole course)</i> CAFF (2013): Arctic biodiversity assessment: Status and trends in arctic biodiversity 2013 https://www.caff.is/assessment-series/233-arctic-biodiversity-assessment-2013 Read the following: Introduction,; indigenous peoples and biodiversity and chapters: 1, 2, 3, 4, 6, 18 and 19. Arctic Human Development Report: Regional Processes and Global Linkages. TemaNord 2014:567. Eds. J. N. Larsen & G. Fondahl. Nordic council of Ministers. Copenhagen: Nordisk Ministerråd. Online: http://norden.diva-portal.org/smash/record.jsf?pid=diva2%3A788965&dswid=-3234 read the following chapters: 2, 3, 4, 8, 10, 11 and 12.
Key words	Arctic; Boreal; Nature; Species; Threats; Climate change

Title of the lecture	Natural resources in the northern areas (2 hours)
Teacher	Jukka Jokimäki & Marja-Liisa Kaisanlahti-Jokimäki
Main content	Amount, distribution and use of Arctic and Boreal natural resources
Literature	
Key words	Natural resources (oil, gas, timber etc.) Conflicts between different land use practices

Title of the lecture	Excursion to Ounasvaara and Visit to the exhibition of the Arktikum (8 hours)
Teacher	Jukka Jokimäki & Marja-Liisa Kaisanlahti-Jokimäki
Main content	Natural history and use of arctic and boreal environments; Natural history of Rovaniemi/Ounasvaara; forestry and recreational use of boreal environments; boreal forest types and tree species

Literature	
Key words	Arctic; Boreal; Nature; Species; Threats; Climate change

Title of the lecture	Introduction to the Arctic Societies North as space and place (2 hours)
Teacher	Anna Stammler-Gossmann
Main content	The aim of the lecture is to examine different definitions of the Arctic/North from representational viewpoint – concepts, images, discourses, views. The introduction gives also an overview of theoretical paradigms in Arctic studies on societies (indigeneity, sustainable development, vulnerability, resilience, adaptation) and local concepts of space and human-nature relations
Key words	Space definitions and concepts; where and what is the Arctic? Homeland and frontier; indigenous people, indigeneity; Social life of climate change models; Concepts of sustainability, vulnerability, resilience, adaptation
Literature	Armstrong, T., Rogers, G., Rowley, G. 1978. The circumpolar North. A political and economic geography of the Arctic and sub-Arctic. London: Methuen&Co. Hamelin, L.E. 1979. <i>Canadian Nordicity: It's your North, too</i> . Montreal: Harvest House. Stammler-Gossmann, A. 2011. Re-bordering of the Russian North. <i>Arctic & Antarctic International Journal of Circumpolar Sociocultural Issues</i> 5: 97-114. Stammler-Gossmann, A. 2009. Who is indigenous? Construction of 'indigenusness' in Russian legislation. <i>International Community Law Review</i> 11 (1), pp. 69-102.

Title of the lecture	Living in the cold: Rendered spaces and lived places (2 hours)
Teacher	Anna Stammler-Gossmann
Main content	The lecture is based on case studies conducted in different Arctic regions. It explores spaces and places represented, sensed and experienced as a part of everyday practices, local and regional perspectives, and as affiliated national discourses. It looks at human adaptation to winter in northern communities, practical applications of coldness, uses of winter, environmental changes and northern economies
Key words	Arctic communities; uses and perception of cold; environmental changes; northern economies (pastoralism, fisheries, tourism)

Literature	<p>Stammler-Gossmann, A. 2013. Changing Barents Sea and coastal communities. <i>Arctic Climate Change Economy and Society Newsletter</i> 5: 17-21</p> <p>Stammler-Gossmann, A. 2012. The Big Water of a Small River: Flood Experiences and a Community Agenda for Change. Tennberg, M. (Ed.) <i>Governing the Uncertain in the Arctic: Adaptation and Climate Change in Russia and Finland</i>, pp.55-82.</p> <p>Stammler-Gossmann, Anna. 2010. Chapter 6. 'Translating' vulnerability at the community level: Case study from the Russian North. Hovelsrud G.K., Smit B. (Eds.), <i>Community Adaptation and Vulnerability in Arctic Regions</i>. Berlin:Springer, p.131-162.</p>
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Title of the lecture	Governing the Arctic (2 hours)
Teacher	Stephan Kirchner
Main content	The Arctic is not an empty space but home to millions of people. This lecture introduces the students to the Arctic, its biodiversity and its peoples and to some of the challenges the region faces and to the governance of the Arctic.
Key words	Arctic governance
Literature	Klaus Dodds & Mark Nuttall (2019). <i>The Arctic: What Everyone Needs to Know</i> , Oxford: Oxford University Press

Title of the lecture	Arctic and Antarctic Information Resources (1 hour)
Teacher	Vuontisjärvi Kati
Main content	Where to find information on Arctic and Antarctic issues? Where to find maps on Arctic and Antarctic? Where to find information on indigenous peoples?
Literature	
Key words	Arctic and Antarctic literature, scientific information, information on indigenous peoples

Title of the lecture	Arctic governance: Levels of governance, legal systems and international cooperation (2 hours)
Teacher	Adam Stepien
Main content	Brief overview of various levels of governance in the Arctic, defining “Arctic governance”; legal systems applicable to the Arctic and their sources (law of the sea, indigenous rights, environmental law, resource governance); international cooperation in the Arctic: its history, format, successes and challenges

ASPB1102 Arctic Ecosystems and Adaptation of Species to Arctic Environment
Principal tutor Sari Stark

Title of the lecture (30 hours)	Tundra and boreal forest ecosystems (6 h)
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Teacher	Mari Kuoppamaa
Main content	The evolution and distribution of tundra and boreal forest ecosystems, emphasizing vegetation, plant–animal interactions and natural and anthropogenic disturbance patterns and processes
Key words	Ecosystems, vegetation, plant-animal interactions, anthropogenic disturbance
Title of the lecture	Marine productivity and biodiversity (6 h)
Teacher	Sari Stark
Main content	Processes and global interactions affecting to marine productivity and biodiversity, interactions between marine and terrestrial ecosystems and threats to Arctic marine life
Key words	Marine productivity, marine biodiversity, marine ecosystems

Title of the lecture	Natural Selection and Adaptation of Endothermic Vertebrate Animals to Northern Environment (6 h)
Teacher	Osmo Rätti
Main content	Evolution and the theory of natural selection, morphological and behavioural adaptations of animals
Key words	Evolution, Natural selection, Adaptation

Title of the lecture	Physiological Adaptation of Endothermic Animals to Northern Environment (6 h)
Teacher	Päivi Soppela
Main content	Physiological and morphological adaptations of endothermic animals to northern environment; temperature regulation, cold adaptation, energy expenditure, hibernation, adipose tissues/fats, visual adaptation, reindeer, humans, climate change
	Northern environment, cold climate, season, animals, adaptation, energy, thermogenesis, fats, brown fat
Title of the lecture	Adaptation of plants to northern environment (6 h)
Teacher	Minna Turunen
Main content	Morphological and physiological adaptations of plants to northern environment; responses and adaptations of plants to climate change
Key words	Northern environment, vegetation zone, plant, adaptation, timberline, climate change

ASPB1103: Arctic Governance and Law

Principal tutor: Punam Noor

Title of the lecture	International Environmental Law in the Arctic (6 hours)
Teacher	Punam Noor

Main content	<ul style="list-style-type: none"> • Significance of Environmental Law in the Arctic • International Law and Environment • International Environmental Law: Law making process • Basic Principles of International Environmental Law • Reference to international regulations (and cases) applicable to the Arctic
Literature	<ul style="list-style-type: none"> • Loukacheva, N. Ed. 2010. Polar Law Textbook. TemaNord. Available at: http://norden.diva-portal.org/smash/get/diva2:701555/FULLTEXT01.pdf • Loukacheva, N. Ed. 2013. Polar Law Textbook II. TemaNord. Available at: http://norden.diva-portal.org/smash/get/diva2:701016/FULLTEXT01.pdf • Roach, J. Ashley (2009). International Law and the Arctic: A Guide to Understanding the Issues. Southwestern Journal of International Law 15 (2): 301-326. • Sands, P. et al (2018). Principles of International Environmental Law. Cambridge University Press.
Key words	International environmental law, principles of environmental law, treaties and framework convention, Arctic, indigenous peoples, human rights, biodiversity, marine environment.

Title of the lecture	International Climate Change Law and the Arctic (6 hours)
Teacher	Noor Punam
Main content	<ul style="list-style-type: none"> • Objectives, Methods and Principles of International Climate Change Law • Phases of the UN Climate Regime, Compliance and Enforcement in the Climate Change Regime • Kyoto Protocol and Paris Agreement and the obligations of Arctic states towards them • Arctic Indigenous peoples' participation in shaping International Climate Change Law
Literature	<ul style="list-style-type: none"> • Bodansky, D., Brunnee, J. & Rajamani, L (2017). International Climate Change Law. Oxford: OUP. Chapters 2, 5 and 7. • Maguire, R (2013). Foundations of International Climate Law. In Erkki J Hollo, Kati Kulovesi & Michael Mehling (Eds.) Climate Change and the Law. Springer.
Key words	Arctic, climate change, indigenous peoples, human rights, participation

Title of the lecture	International Law of the Sea in the Arctic (6 hours)
Teacher	Noor Punam

Main content	The history of the international law of the sea and its codification. The contemporary legal regime governing maritime areas in the Arctic, in particular the 1982 United Nations Convention on the Law of the Sea (LOSC); maritime boundary delimitation, the rules governing different maritime zones, navigational rights and freedoms, protection and preservation of marine environment and IMO Conventions.
Literature	Gavrilov, Viatcheslav V. (2015). Legal Status of the Northern Sea Route and Legislation of the Russian Federation: A Note. <i>Ocean Development and International Law</i> 46 (3): 256–263. Roach, J. Ashley (2009). International Law and the Arctic: A Guide to Understanding the Issues. <i>Southwestern Journal of International Law</i> 15 (2): 301-326. Steinberg, Philip E. (2014) Steering between Scylla and Charybdis: The Northwest Passage as Territorial Sea. <i>Ocean Development and International Law</i> 45 (1): 84-106.
Key words	law of the sea, Arctic, coastal states, navigational rights, marine pollution

Title of the lecture	Arctic cooperation and resource governance (6 hours)
Teacher	Adam Stepien
Main content	<ul style="list-style-type: none"> • Overview of the post-Cold War history and of the current status of Arctic politics and the regionalisation process • The institutions of Arctic cooperation and their modes of functioning (focus on the Arctic Council and regional law-making processes). • Actors in Arctic regional politics. • Multilevel governance of Arctic resource extraction
Literature	<ul style="list-style-type: none"> • Durfee, M. and R. L. Johnstone (2019). Arctic Governance in a Changing World. Rowman and Littlefield. Chapters 3 (Arctic Players) and 5 (Arctic Economies and Resources).
Key words	Arctic, Arctic Council, cooperation, Barents, politics, governance, resources

ASPB1104 People, Cultures and Identities of the Arctic

Principal tutor: Nuccio Mazzullo

Title of the lecture	Of reindeer herding, place and people: issues of perception among Finnish Northern Sámi
Teacher	Nuccio Mazzullo
Main content	The lecture shall explore, from an anthropological perspective, issues of identity and indigeneity among the Sámi people. It shall be an ethnographic account of herding, migration and social changes among the Sámi people of Finnish Lapland in order to illustrate the importance of reindeer herding to this day as a subsistence that goes beyond economic analyses and that calls for a more holistic approach. Despite a weakened economic importance, reindeer herding

	still plays a very important role in the social and cultural dimensions of Sámi society.
Literature	<p>Ingold Tim: 1997, <i>Work, identity and Environment: Finns and Saami in Lapland, in Arctic Ecology and Identity</i>, ed. S.A. Mousalimas, Akadémiai Kiadó, Budapest -International Society for Trans-Oceanic Research, Los Angeles.</p> <p>Ingold Tim: <i>The perception of the environment: essays on livelihood, dwelling and skill</i>. London: Routledge, 2000. (Chapters 1 and 10)</p> <p>Ingold Tim: 2005, <i>Epilogue: Towards a Politics of Dwelling</i>. In <u>Conservation & Society</u> [serial online];vol.3:2 pp.501-406. Available from: http://www.conservationandsociety.org/downloadpdf.asp?issn=0972-4923;year=2005;volume=3;issue=2;spage=501;epage=508;aulast=Ingold;type=2</p> <p>Mazzullo, N.: 2010 – <i>More than meat on the hoof? Social significance of reindeer among Finnish Saami in a rationalized pastoralist economy</i> – in <u>Good to Eat, Good to Live with: Nomads and Animals in Northern Eurasia and Africa</u>, Eds. Florian Stammler and Hiroki Takakura, Northeast Asian Study Series 11, Center for Northeast Asia Studies (CNEAS), Tohoku University, Sendai, Japan, pp. 101–119.</p> <p>Mazzullo, N. and Ingold, T.: 2008 – <i>Being Along: Place, Time and Movement among Sámi People</i>. In: <u>Mobility and Place: Enacting European Peripheries</u>, Edited by Jørgen Ole Bærenholdt and Brynhild Granås, Ashgate Publishing Ltd, Aldershot, U.K.</p> <p>Mazzullo, N.: 2009: <i>Sápmi: a symbolic re-appropriation of Lapland as Saamiland</i>, in <u>Máttut – Máddagat: The Roots of Saami Ethnicities, Societies and Spaces / Places</u>. Ed. Tiina Äikäs, publication of Giellagas Institute, 12; University of Oulu, Oulu, Finland, pp174-185</p>
Key words	Perception, traditional livelihoods, place and place-making

Title of the lecture	Cultural Changes among the Skolt Sami, especially in forms of livelihood and in relations to natural resources
Teacher	Panu Itkonen
Main content	The lecture describes changes in Skolt Sami forms of livelihood during last hundred years. Moreover, the lecture analyzes changes in Skolt Sami people's relation to nature and natural resources.
Literature	<p>Pelto, Pertti J. 1973: <i>The Snowmobile Revolution: Technology and Social Change in the Arctic</i>. Menlo Park California: Cummings Publishing Company.</p> <p>Ingold, Tim 1976. <i>The Skolt Lapps Today</i>. Cambridge: Cambridge University Press.</p> <p>Itkonen, Panu 2012. <i>Skolt Sami Cooperation: Forms of Reciprocity in Work situations of the Sevettijärvi Reindeer Herding Community at the Beginning of the 21st Century and Actions of State Administration</i>. University of Helsinki: Unigrafia</p>
Key words	Notions of Northerness/Arcticness, identity building in arctic Russia

Title of the lecture	Practicalities for Co-management in National Parks: A Cross-regional Perspective
Teacher	Ayonghe Akonwi Nebasifu

Main content	<p>Co-management (collaborative/cooperative management) is a concept the anthropologists of the 20th and 21st century use to address the mechanisms for joined decision-making, power and benefit sharing between various actors in the management of natural resources. For instance, where human communities locate adjacent to National Parks, the emergence of multi-stakeholder interventions have been eminent in an effort to safeguard biodiversity and local culture. However, collaborative measures vary across regions and cultures. For instance, between the Arctic and Equatorial regions of the world, where complex observations exist. In perspective, two case studies are of interest in this lecture: (1) the Sirmilik National Park in the Canadian Arctic largely used by Inuit people, and (2) the teacher's own experience of the Mount Cameroon National Park in sub-Saharan Africa which is dominantly used by the Bakweri people. This lecture will familiarize students about the importance and challenges of applying co-management procedures, identifying key actors, and understanding strategic relations between them. Through group exercises, students will be able to diagnose and develop a co-management framework of their own.</p>
Literature	<p>Nebasifu, A. A., Atong, N. M. 2020. Land Use and Access in Protected Areas: A Hunter's View of Flexibility. <i>Forests</i> 11 (4): 1-15.</p> <p>Nebasifu, A. A. 2017. Rethinking the Coexistence of Industrial Mining Near Protected Areas: Human Concerns for Sustainable Development in the Arctic. <i>Environment and Sustainability</i> 1 (2): 48-51.</p> <p>Borrini-Feyerabend, G., Farvar, M. T., Yves Renard, Y., Pimbert, M. P., Kothari, A. (2007) Sharing Power: A Global Guide to Collaborative Management of Natural Resources. Routledge, 1st edition. Chapter 4, pp. 110 - 140.</p> <p>Nebasifu, A. A., Atong, N. M. 2020. Expressing Agency in Antagonistic Policy Environments. <i>Environmental Sociology</i> 6(2): 154-165.</p> <p>Nebasifu, A. A., Atong, N. M. 2019. Rethinking Institutional Knowledge for Community Participation in Co- management. <i>Sustainability</i> 11(20): 01-19.</p> <p>Parks Canada. 2020. Sirmilik National Park: Park Management. https://www.pc.gc.ca/en/pn-np/nu/sirmilik/info</p>
Key words	Co-management, Local Culture, People, National Parks

Title of the lecture	People and the land in the Arctic
Teacher	Florian Stammler
Main content	It is no secret that land is the key resource for Arctic indigenous peoples to continue their livelihoods forming the base of Arctic cultures. However, only few if any indigenous peoples had formal ownership of their land before they had to defend their rights to incoming people who advanced intensive land use in the Arctic. This lecture(s) introduces some key examples of indigenous

	perceptions of land rights, land use practices and cooperation among different indigenous users of the same land. In these examples, rather than a notion of formal ownership, the entitlements of people to the land base on knowing its resources and the cooperation in engaging with them in daily practice. Using a case-study approach from the Yamal-Nenets, the Yakutian Evenki, and the Kamchatkan Eveny with some comparative outlook to the Norwegian Lule-Sámi, we shall explore together the multiple layers that lie behind current notions of land ownership in the Arctic.
Literature	<p>Osherenko, G. (2001). Indigenous Rights in Russia: Is Title to Land Essential for Cultural Survival? <i>Georgetown International Environmental Law Review</i>, 13(3), 695–734.</p> <p>Jordan, P. (2003). <i>Material Culture and Sacred Landscape. The Anthropology of the Siberian Khanty</i>. (D. S. Whitley, Ed.). Oxford, Walnut Creek: Alta Mira Press. Read chapters 7 and 8</p> <p>Anderson, D. G. (1998). Property as a way of knowing on Evenki lands in Arctic Siberia. In C. M. Hann (Ed.), <i>Property Relations: Renewing the anthropological tradition</i> (pp. 64–84). New York: Cambridge University Press.</p> <p>Vitebsky, P. (2005). <i>Reindeer People. Living with Animals and Spirits in Siberia</i>. London: Harper Collins. read the Chapter: "civilising the nomads"</p> <p>Stammler, F., & Ivanova, A. (2016). Confrontation, coexistence or co-ignorance? Negotiating human-resource relations in two Russian regions. <i>The Extractive Industries and Society</i>, 3(1), 60–72. https://doi.org/10.1016/j.exis.2015.12.003</p>
Key words	Indigenous, land rights, issues of ownership and cooperation

Title of the lecture	Sámi Religion, Culture, Identity and Art
Teacher	Francis Joy
Main content	The aims of the lecture are to examine the role and function art plays in relation to an embedded knowledge system, which is representative of identity, culture and cultural memory, through an examination of different art forms and landscapes.
Literature	<p>Helander-Renvall, E. (2010) Animism, personhood and the nature of reality: Sami perspectives. In <i>Polar Record</i> 46 (236): 44–56.</p> <p>Joy, Francis 2016. THE Vitträsk rock painting at Kirkkonummi and the theory of a Sámi cosmological landscape. In <i>Suomen Antropologi</i>, vol. 41:3</p> <p>Joy, Francis. 2017. Noaidi drums from Sápmi, rock paintings in Finland and Sámi cultural heritage – an investigation. In <i>Polar Record</i>. Cambridge University Press. doi:10.1017/S0032247416000917</p> <p>Lahelma, Antti. 2005. “Between the worlds. Rock art, landscape and shamanism in Subneolithic Finland”. Article in: <i>Norwegian Archaeological Review</i>, Volume 38, No1. Routledge Taylor & Francis, 29-47.</p>
Key words	Art, embedded knowledge system, identity, culture, cultural memory

Title of the lecture	Cultures, identities and peoples of Siberia and the Russian North
Teacher	Stephan Dudeck
Main content	The lecture deals with the history of the category of the Small Numbered Indigenous Peoples of the Russian North, Siberia and the Far East in Czarist Russia, the Soviet Union and post-Soviet Russia. We will have a look into the main forms of nature use in the Russian Arctic - reindeer herding, fishing, extractive industries etc. The lecture gives an overview of the main branches of economy but also cultural practices like religion, oral traditions and languages among Siberian peoples. It will provide an historic overview of the colonisation of the Russian North from military conquest through scientific exploration to industrial development.
Literature	Anderson, D. G. 2004. "Nationality and 'Aboriginal Rights' in Post-Soviet Siberia." In <i>Circumpolar Ethnicity and Identity</i> , edited by Takashi Irimoto and Takado Yamada, 247–67. <i>Senri Ethnological Studies</i> 66. Donahoe, Brian, Joachim Otto Habeck, Agnieszka Halemba, and István Sántha. 2008. "Size and Place in the Construction of Indigeneity in the Russian Federation." <i>Current Anthropology</i> 49 (6): 993–1020. Sokolovskiy, Sergey V. 2013. "Russian Government Policies and Minority Identities." In <i>Managing Ethnic Diversity in Russia</i> , edited by Benedikt Harzl and Oleh Protsyk, 173–88. New York: Routledge. Stammler-Gossmann, A. 2009. "Who Is Indigenous? Construction of 'Indigeneness' in Russian Legislation." <i>International Community Law Review</i> 11 (1): 69–102.
Key words	Economy, religion, oral traditions, languages, Siberian peoples

Title of the lecture	Sámi handicraft and communities of practice
Teacher	Nuccio Mazzullo
Main content	The lecture will address issues of learning and sharing of practices of making handicraft among the Sámi. We shall compare with other systems of learning and with the influences of tourism and mass production. We shall also address the differences between the notion of handicraft and that of art.
Literature	INGOLD Tim 2013, <i>Making: Anthropology, Archaeology, Art and Architecture</i> . Routledge KELLER C.M. and J.D. KELLER: 1996; <i>Cognition and tool use: the blacksmith at work</i> ; Cambridge: Cambridge University Press. LAVE Jean: 1991; <i>The culture of acquisition and the practice of understanding</i> ; in J.W. Stigler, R.A. Shweder and G. Herdt (eds.) <i>Cultural Psychology</i> , Cambridge: Cambridge University Press, pp. 309-327.
Key words	Situated learning, handicraft, cognitivism, handicraft and arts

Seminar	Group presentations on four different themes
Teacher	Nuccio Mazzullo <i>et al.</i>
Main Themes	<ul style="list-style-type: none"> • Worldview in the Arctic: religion, belief, shamanism • Knowledge, knowledge systems and traditional subsistence activities. • Different discourses on the concept of indigeneity

	<ul style="list-style-type: none"> • Issues of identity, Space and Territoriality
Literature	Course literature
Key words	Team-work, presentation skills, synthetic skills.

ASPB1105 Human Rights and Human Security in the Arctic

Principal tutor: Stefan Kirchner

Title of the lecture	Introduction to Human Rights and Human Security in the Arctic (6h)
Teacher	Stefan Kirchner
Main content	Arctic governance and international law, global and local threats to human security in the Arctic, human rights obligations
Literature	- Durfee & Johnstone (2019). Arctic governance in a changing world. Rowman & Littlefield.
Key words	Arctic governance, security, safety, human rights

Title of the lecture	Food Resilience and Sovereignty in the Arctic (6h)
Teacher	Dele Raheem
Main content	In this lecture we will explore why the food system need to change, understand the relationship between climate change, agriculture and food security. What does food sovereignty entail in the Arctic context? What is the common language between policy makers, academics, and grassroots activists towards resilience and food security.
Literature	<p>- Hossain, K., Raheem, D. and Cormier, S. 2018. Food security Governance in the Arctic-Barents region. Book published by Springer Nature. http://www.springer.com/us/book/9783319757551#aboutBook</p> <p>- Cormier, S and Raheem, D. 2018. Food security in the Barents region. Book chapter published by Routledge. https://www.routledge.com/Society-Environment-and-Human-Security-in-the-Arctic-Barents-Region/Hossain-Cambou/p/book/9780815399841 (e-book).</p> <p>- The 2016 State of Food and Agriculture: Climate change, agriculture and food security http://www.fao.org/3/a-i6030e.pdf</p> <p>- Hossain, K., Hermann, T. and Raheem, D. 2018. Food (in)Security across the Circumpolar Arctic. Book Chapter 38 in Handbook on Arctic Security. Routledge.</p> <p>- Raheem, D. 2018. Food and nutrition as a measure of resilience in the Barents region. Urban Science. 2018, 2, 72. https://doi.org/10.3390/urbansci2030072. Multidisciplinary Digital Publishing Institute (MDPI), Switzerland (open access).</p> <p>- Nilsson L.M., Evengård B. 2015. Food Security or Food Sovereignty: What Is the Main Issue in the Arctic? In: Evengård B., Nyman Larsen J., Paasche Ø. (eds) The New Arctic. Springer, Cham.</p>
Key words	food security, food safety, nutrition, climate change, food, sustainability

Title of the lecture	Digitalization and Cybersecurity in the Arctic (6h)
Teacher	Mirva Salminen
Main content	TBC

Literature	- Hudson (2015). Connecting the Alaskans: Telecommunications in Alaska from Telegraph to Broadband. - Salminen & Hossain (2018) “Digitalisation and human security dimensions in cybersecurity: an appraisal for the European High North” Polar Record 54(2), 108–118. - Salminen, Zojer & Hossain (2020). Digitalisation and Human Security: A Multi-Disciplinary Approach to Cybersecurity in the European High North.
Key words	digitalisation, connectivity, cybersecurity, human security, responsabilisation, digital rights

Title of the lecture	Introduction to Cultural Heritage Law and Heritage rights of Russian Arctic communities (6h)
Teacher	Karolina Sikora
Main content	The lecture will address the basics of international cultural heritage law and explore the issue of human rights approach to cultural heritage. The theoretical discussion will be put in the context of rights to heritage of Russian Arctic communities
Literature	- Blake, J. (2015). Cultural Heritage and Human Rights in: J.Blake “International Cultural Heritage Law”. Oxford University Press. - Waterton, E. and L. Smith (2009). There is no such thing as heritage. In Waterton, E. and L. Smith (eds) “Taking Archaeology out of heritage”. Cambridge Scholars Press.
Key words	international cultural heritage law, indigenous rights, human rights dimension of heritage

ASPBI106 (1) Optional course 5 ECTS (16 h + fieldwork)

Indigenous (Sámi) spirituality and religious beliefs

Lecturer: Dr. Francis Joy

The focus for the course is to provide participants with a broad and comprehensive understanding and series of insights into Sámi religion and spiritual traditions, both past and present. Moreover, the critical function religions and spirituality plays within Sámi society.

- The historical background. Important sources discuss-ing drum use, sacrifice and Sámi pre- Christian religion
- The sacred Sámi drum as an instrument of divination, trance and ecstasy from the missionary sources
- Why Sámi drums their use and symbolism were seen as such a threat by the authorities
- Sámi religion and drum use going underground
- The outlawing of sacrificial practices – how and why
- The re-emergence of drums in contemporary Sámi society
- The types of evidence available for the practices of sacrifice and Sámi religion in contemporary culture
- Sámi cultural heritage and tourism in Finland

Title of Lecture	Lecture 1. Sacrifice, offerings and sacred places. (3 hours) .
Teacher	Francis Joy

Main content	The roles and functions of holy places as encountered in historical literature during missionizing and from within contemporary culture
Key words	Sieidi, seita, bones, wooden posts, hunting, fishing, spirits
Literature	<p>Äikäs, Tiina; Salmi, Anna-Kaisa (2013) The Sieidi is a Better Altar / the Noaidi Drum's a Purer Church Bell: Long Term Changes and Syncretism at Sámi Offering Sites. - World Archaeology 45 (1), 64-82.</p> <p>Äikäs, Tiina (2019). Religion of the past or living heritage? Dissemination of Knowledge on Sámi Religion in Museums in Northern Finland. The Journal Nordic Museology, Volume 27, Number 3.</p> <p>Äikäs, Tiina. (2015). From Boulders to Fells. URL: http://www.sarks.fi/masf/masf_5/masf_5.html</p> <p>Pennanen, Jukka. (2003). The Sacred Sieidi – A Link Between Human Beings and the Divinities of Nature. In Pennanen, Jukka., & Näkkäljärvi, Klemetti. (Eds.) <i>Siidastallan. From Lapp communities to modern Sámi life</i>. Publication of the Inari Sámi Museum 5, pp. 156-157.</p>

Title of the lecture	Lecture 2. Sámi pre-Christian Religion, Culture and Art (3 hours)
Teacher	Francis Joy
Main content	An examination of prehistoric rock art in Finland and Alta, Finnmark Norway and in what ways images within these sites appear to be related to Sámi cosmological landscapes painted on Sámi shaman drums from the seventeenth century.
Literature	<p>Joy, Francis. (2018). Sámi Shamanism, Cosmology and Art as Systems of Embedded Knowledge. Doctoral Dissertation. Acta Universitatis Lapponiensis 367. The University of Lapland. URL: http://lauda.ulapland.fi/handle/10024/63178</p> <p>Nunez, Milton. (1995). Reflections of Finnish Rock Art and Ethnohistorical Data, in: Fennoscandia Archaeologica XXI: 123-135. URL: http://www.sarks.fi/fa/PDF/FA12_123.pdf</p> <p>Lahelma, Antti. (2008). A Touch of Red - Archaeological and Ethnographic Approaches to Interpreting Finnish Rock Paintings. URL: https://helda.helsinki.fi/bitstream/handle/10138/19406/atoucho.pdf?sequence=1&isAllowed=y</p> <p>Sveen, Arvid. (1996) Rock Carvings; Jiepmaluokta Hjemmeluft, Alta. Finnmark: Vadso.</p>
Key words	Rock paintings, rock carvings, horns, triangular headed figures, cosmology, shamanism

Title of the lecture	Lecture 3. What influence do ancient Sámi symbols have on Sámi drum makers and cultural narratives today? parts 1 and 2. (3 hours)
Teacher	Francis Joy
Main content	The emphasis on the lecture is to look at in what ways and by what means historical Sámi shaman drums and their content have influenced Sámi drum makers today.
Literature	<p>Joy, Francis. (2018). Sámi Shamanism, Cosmology and Art as Systems of Embedded Knowledge. Doctoral Dissertation. Acta Universitatis Lapponiensis 367. The University of Lapland. URL: http://lauda.ulapland.fi/handle/10024/63178</p> <p>Pentikäinen, Juha. (2010). The Shamanic Drum as Cognitive Map. Cahiers de Littérature Orale [En ligne]. URL: http://clo.revues.org/445 ; DOI : 10.4000/clo.445, pp. 1-12.</p> <p><u>Manker, Ernst Mauritz.</u> (1938). <i>Die Lappische Zaubertrommel. Eine Ethnologische Monographie. 1, Die Trommel als Den-kmal Materieller Kultur.</i> Acta Lapponica; 1, Stockholm: Thule.</p> <p><u>Manker, Ernst Mauritz.</u> (1950). <i>Die Lappische Zaubertrommel: Eine Ethnologische Monographie. 2, Die Trommel als Urkunde Geistigen Lebens.</i> Acta Lapponica; 6. Stockholm: Gebers.</p> <p><u>Both of these books are in Rovaniemi City Library Lapland section and although published in German, you can see photographs of the remaining drums that are in museums across Europe.</u></p> <p>Ahlbäck, Tore and Bergman, Jan. (eds. (1987). The Saami Shaman Drum: Papers Based on the Symposium on Saami Religion Held at Åbo, Finland, on the 16th and 18th of August 1984. Published by The Donner Institute for Research in Religious and Cultural History. URL: https://www.doria.fi/bitstream/handle/10024/134162/The%20Saami%20Shaman%20Drum%201991%20OCR.pdf?sequence=2</p>
Key words	Shaman drums, cosmological landscapes, divination, contemporary drums, Sámi artists

Title of the lecture	Sámi cultural heritage and tourism in Finland. (3 hours)
Teacher	Francis Joy
Main content	An examination of a multitude of issues surrounding the reproduction and appropriation of Sámi cultural heritage into tourism, which pertains to the misuse and abuse of Sámi traditions and practices.

Literature	<p>Joy, Francis. (2018). Sámi Shamanism, Cosmology and Art as Systems of Embedded Knowledge. Doctoral Dissertation. Acta Universitatis Lapponiensis 367. The University of Lapland. URL: http://lauda.ulapland.fi/handle/10024/63178</p> <p>Mattila, Tuomas. (2018). Needs of the Sámi People for Intellectual Property Protection from the Viewpoint of Copyright and Trademarks. URL: https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/161206/OKM_40_18_Needs_of_the_Sami_people-WEB111218.pdf?sequence=1&isAllowed=y</p> <p>Guttorm, Gunvor. (2007). Duodji – Sami Handicrafts – Who Owns the Knowledge and the Works? In: Solbakk, John T. Traditional Knowledge and Copyright. SámiKopiija, Karas-jok. Waasa Graphics Oy, pp. 61-94.</p> <p>Joy, Francis. (2020). Sámi Cultural Heritage and Tourism in Finland. In: Tennberg, Monica., Lempinen, Hanna. & Pirnes, Susanna. (eds.). <i>Resources, Social and Cultural Sustainabilities in the Arctic</i>. 1. ed. Oxon: <u>Routledge</u>. (Routledge Research in Polar Regions): 144-162.</p>
Key words	Cultural appropriation, drums, figures, symbols, tourism, fake art.

Title of the lecture	Seminar class and presentations (4 hours)
Teacher	Francis Joy
Main content	Students will present their work individually or in groups that will cover one of the topics presented within the lecture series. Each person will be given 5 minutes to speak. What they have learned will be assessed through their work.
Key words	Sámi traditions, spiritual practices, tourism, rock art, shamanism, appropriation, learning outcomes

ASPBI106 (2) Optional course 1 ECTS (6 h)

Food security and sovereignty in the Arctic

Lecturer: Dele Raheem

- Global Food security definition
- Resilience and coping mechanisms to ensure food security for individuals and households in the Arctic
- Food system and its complexity
- Transforming the food system
- The role of local movements in driving the future food system
- Food system and the UN SDGs
- What does it mean to be food sovereign?
- How can food sovereignty be used as a trans-regional framing device in the debate of eco-cultural issues and other dialogues?
- The Arctic food industry

Title of the lecture	Food systems and Climate change (2 h)
Teacher	Bamidele Raheem

Main content	How food systems and climate change are inextricably linked. The way we grow, process, distribute, eat, and dispose food contributes to climate change, with consequences on sustainability and security of the food system. We will take a critical look as to why and how the future of food in the Arctic need to address the stark and urgent realities of climate change.
Keywords	food security, food system, food industries, innovations, Arctic

Title of the lecture	Food security of Food sovereignty (2 h)
Teacher	Bamidele Raheem
Main content	The relationship between climate change, agriculture and food security in Arctic context. How food sovereignty is expressed in different spatial contexts, the interconnection of food to the SDGs. An understanding of the common language between policy makers, academics, and grassroots activists towards resilience, food security and sovereignty. Group work will be encouraged.
Keywords	food sovereignty, resilience, sustainable development goals, Arctic

Title of the lecture	Innovations around the Arctic food system (2 h)
Teacher	Bamidele Raheem
Main content	The innovations in the food system and how it helps sustainability in the Arctic context. Digital tools along the value chain, prevention of food loss and waste and the promotion of circular economy. Group work will be encouraged.
Keywords	digital tools, value chain, food industries, circular economy, Arctic

Literature	<p>- Hossain, K., Raheem, D. and Cormier, S. 2018. Food security Governance in the Arctic-Barents region. Book published by Springer Nature. http://www.springer.com/us/book/9783319757551#aboutBook</p> <p>- Cormier, S and Raheem, D. 2018. Food security in the Barents region. Book chapter published by Routledge. https://www.routledge.com/Society-Environment-and-Human-Security-in-the-Arctic-Barents-Region/Hossain-Cambou/p/book/9780815399841 (e-book).</p> <p>- The 2016 State of Food and Agriculture: Climate change, agriculture and food security http://www.fao.org/3/a-i6030e.pdf</p> <p>- Hossain, K., Hermann, T. and Raheem, D. 2018. Food (in)Security across the Circumpolar Arctic. Book Chapter 38 in Handbook on Arctic Security. Routledge.</p> <p>- Raheem, D. 2018. Food and nutrition as a measure of resilience in the Barents region. Urban Science. 2018, 2, 72.</p>
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	<p>https://doi.org/10.3390/urbansci2030072. Multidisciplinary Digital Publishing Institute (MDPI), Switzerland (open access).</p> <p>- Nilsson L.M., Evengård B. 2015. Food Security or Food Sovereignty: What Is the Main Issue in the Arctic? In: Evengård B., Nyman Larsen J., Paasche Ø. (eds) The New Arctic. Springer, Cham.</p> <p>- Food Sovereignty of the Indigenous Peoples in the Arctic Zone of Western Siberia: Response to COVID-19 Pandemic (open access): https://www.mdpi.com/1660-4601/17/20/7570</p>
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ASPBI1106 (3) Optional course 1 ECTS (6 h)

Arctic: home for people and animals

Lecturer: Terhi Vuojala-Magga

The course is focused on the relation between people in the northern communities of Lapland and semi-domesticated/domesticated animals. Human approaches towards animals will be compared with animals' life in human proximity as well as in wilderness.

Case studies cover following themes:

- Reindeer: Reindeer behaviour according to sex, age and season.
- Dog: Free spirit forest dog, natural behaviour and working role.
- Sheep: Social behaviour and personalities.
- Animal interaction: interaction between each other, power relationship, fear
- Ecology of life, niche construction theory

Keywords: visual anthropology, reindeer, forest dog, sheep, niche construction theory, animal behavior

Suggested literature:

- Vuojala-Magga, Turunen 2015. Sámi reindeer herders' perspective on herbivory of subarctic mountain birch forests by geometrid moths and reindeer: a case study from northernmost Finland https://www.researchgate.net/publication/273767182_Smi_reindeer_herders_perspective_on_herbivory_of_subarctic_mountain_birch_forests_by_geometrid_moths_and_reindeer_a_case_study_from_northernmost_Finland
- Vuojala-Magga 2010: Knowing, training, learning: the importance of reindeer character and temperament for individuals and communities of humans and animals. In: Florian Stammer, Hiroki Takakura (eds). Good to Eat, Good to Live with: Nomads and Animals in Northern Eurasia and Africa. Northeast Asian Study.