Community and Environment Centered Sustainable Development: Case Studies from Puerto Princesa City of Island Palawan, the Philippines.

Dissertation Summary

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Abstract

Former mayor Edward Hagedorn and officials have set their vision to see the City of Puerto Princesa, on Palawan Island in the Philippines, as "a model city in sustainable development." This dissertation discusses how people have committed to accomplish this vision and also how they have contributed to Puerto Princesa being recognized as the "City in the Forest" of the Philippines. The objective of this study is to identify the sustainable development model of Puerto Princesa City and to describe the sustainable development story of Puerto Princesa using case studies and to offer an exclusive approach to case study research that is practical and applicable in other parts of the Philippines and neighboring countries. Global recognition to the concept of sustainable development, its history and application in to island city is discussed throughout this dissertation.

This dissertation introduces the trend of the world, the Philippines and Puerto Princesa City's mangrove and forest covers. Case studies of annual mangrove plantation and tree planting are discussed in detail. Community based sustainable tourism and livelihood activities are also discussed in the form of case studies. Based on the interviews and surveys, stakeholder's contribution, leadership and the society of Puerto Princesa City is described. Puerto Princesa City's tourism development story, why people protects the environment, the sustainable development story of Puerto Princesa City and the possibility of applying of the Puerto Princesa City's sustainable development model in other parts of the Philippines and neighboring countries are also described in detail.

This study is conducted in the form of a case study. Qualitative data are mostly used but at the same time quantitative data are also used to prove qualitative descriptions as a mixed methodology. Data gathering techniques used in this study are interviews, focus groups, surveys, photography, participatory observations, action research and desk research. The sustainability of projects has resulted in creation of the first carbon neutral city in Southeast Asia, despite the fact that Puerto Princesa is highly an urbanizing city in the Philippines. Local community, policy makers, academia and politicians of the city are in agreement that the community is fully aware

of forestation, protection and environmental security in the city, primarily because of continuous community based economic, environmental and social development projects. Research findings further prove that mangroves and forest cover in Puerto Princesa has increased during the last two decades based on government records. Rich biodiversity, environmental protection, high rate of economic development are continuously attracting several visitors and local migrants to the city of Puerto Princesa.

Keywords: capacity development, community based forest management, environmental security livelihoods, leadership, sustainable development, sustainable tourism.

Chapter Summary

Chapter 1: Introduction.

The first chapter introduces the research background, research objectives, the research questions, significance and limitations of the research and outlines the study in brief. A brief introduction to the research destination is also included in this chapter.

Chapter 2: Research Methodology.

Research methods being used to answer research questions are discussed in this chapter. Justification of selected methods and the importance of each method over available options are also explained in this chapter.

Chapter 3: Review of Literature.

Historical incidents of sustainable development and its global recognition are discussed in this chapter. Importance of environmental integration and island sustainability related literature is introduced. Stakeholders consisting of community and the concept of community capacity development are also introduced in brief. Stakeholders of the sustainable development story of Puerto Princesa City engaged in each project is introduced in this chapter and a detailed explanation of them can be followed in chapters 4, 5 and 6. Community based forest management, mangrove forest management and sustainable tourism are also discussed concisely

in this chapter. A detailed literature of the world, the Philippines and of Puerto Princesa's condition will also be discussed in detail with case studies in the following chapters.

Chapter 4: Community Based Sustainable Tourism in Association with Mangrove Forest Case Studies.

In this chapter, case studies are introduced. The inputs are taken mainly from the following published papers by the author: "Community Based Mangrove Forest Management in Association with Sustainable Tourism in Puerto Princesa City of Island Palawan," "Love Affair with Nature - Performances of Sustainable Mangrove Plantation Project in Puerto Princesa City, Palawan Island, The Philippines" and "Sustainable Community Based Mangrove Plantation Projects: Three Case Studies from Palawan Island, the Philippines." The status of the world, the Philippines and Puerto Princesa mangrove forests is described. The community based sustainable tourism concept is introduced in association with mangrove forests.

Chapter 5: Community Based Forest Management Case Studies.

In this chapter, the Global and Philippines forestry shows a negative growing trend. Puerto Princesa provides very unique and impressive examples for forestation, forest management and protection. Both qualitative and quantitative data, as described in this chapter, show that the forest cover has continued to grow for the last two decades. In Puerto Princesa, local citizens are well aware of the benefits of being environmentally sound and are proud of their achievements. Forestation and its management in the city has contributed lot to become "Cleanest and the Greenest City" in the Philippines, including the achievement of becoming the first carbon neutral city of the ASEAN region.

Chapter 6: Livelihood and Capacity Development Case Studies.

Livelihood activities are globally used as a tool or mechanism to combat poverty. These activities are directly contributing to economic and social development. Throughout chapter 4 and this current chapter, various ongoing livelihood activities of the Puerto Princesa city are introduced. Women empowerment, capacity development, increased social standards, increased economic gains and increased educational opportunities are common in these activities. The unique features of Puerto Princesa livelihood activities are that they directly or indirectly

contribute in protecting the environment. None of the ongoing activities are harming Mother Nature. In most of the cases, community involves in environmental development and throughout the last decade, the livelihoods are getting better and better as some of the locals shared their stories. Other unique features of Puerto Princesa livelihoods are that they are attached with various other income generation activities and local government supports continuously through various means to increase the potential of these activities.

Chapter 7: Results, Analysis and Discussions.

The goals of Puerto Princesa City are introduced in this chapter. The target of development sectors and planning process are discussed in this chapter. Stakeholder's contribution, leadership and why the local community contributes in through planning and implementation, evaluation and maintenance of current projects are discussed with the viewpoints of key stakeholders involved in the sustainable development process. Status of community based sustainable tourism, mangrove forest cover and forest cover are introduced with relative data to show their continuous growth. The question of why people protect the environment is answered in this chapter with the voice of locals. Application of the globally recognized criteria and checklists such as 'European Environment Agency criteria for environmental integration' and 'checklist on sustainable development' are applied to Puerto Princesa City and it shows that the city follows globally accepted standards and also in practice it shows the model of true sustainable development.

Chapter 8: Conclusion and List of References.

This chapter provides a summary of how the research has responded to the research objectives outlined in Chapter 1. These include implications and recommendations on community-based sustainable development. A number of suggestions for potential future studies to build on this research are mentioned.

References

- Anderson, J.L. & Fong, S.W. (1997). *Aquaculture and International Trade*. Aquaculture Economics and Management 1(1).
- Andersen L.F., Hasberg S.B., Sørensen R.C.U., Henriksen K.N., (2011) Livelihood Strategies & Community Development Projects In Motseng and Moiketsi, Eastern Cape Province.

 Retrieved 9 February 2014, from

 http://sluse.dk/courses/ilunrm/project/11 south africa livelihood strategies and communit y development projects/.
- Ashley, C., Carney, D. (1999). Sustainable livelihoods: Lessons from early experience. DFID, London, 1999.
- Ashley, C. (2000). Applying Livelihood Approaches to Natural Resource Management Initiatives: Experiences in Namibia and Kenya. ODI Working Paper 134, ODI, London.
- Balita. (2012). Puerto Princesa introduces community-based sustainable tourism. Retrieved 17 February 2014, from http://balita.ph/2012/11/26/puerto-princesa-introduces-community-based-sustainable-tourism/
- Banyai, C. L. (2010). Community capacity and governance: New approaches to development and evaluation (Unpublished PhD dissertation). Ritsumeikan Asia Pacific University: Beppu.
- Barbier, E.B. (2003). *Habitat-Fishery Linkages and Mangrove Loss in Thailand*. Contemporary Economic Policy, forthcoming.
- Bautista, G.M. (1990). The Forestry Crisis in the Philippines: Nature, Causes and Issues. *The Developing Economies* 28(1): 67-94.
- Bleiker, R. & Kay, A. (2007). Representing HIV/AIDS in Africa: Pluralist photography and local empowerment. *International Studies Quarterly*, *51*, 139-163.
- Bloomestein, E., Boland, B., Harker T., Swinburne, L. & Towel, J. (1996). Sustainable development and Small Island States of the Cribbean. In maul G. (ed) *Small Islands:*Marine Science and Sustainable Development: Washington D.C.: American Geographical Union.
- Bourdieu, P. (1986). The forms of capital in: J. Richardson (ed.) *The Handbook of Theory and Research for the Sociology of Education*, pp. 241-258. Westport, CT: Greenwood Press.
- Birch-Thomsen, T.R., Hill, T. & Dolleris C. (2003). *Impact of different land use policies on a rural community a case study from South Africa*. University of Copenhagen & University of

Natal

- Bromley, D. B. (1990). Academic contributions to psychological counseling. A philosophy of science for the study of individual cases. *Counseling Psychology Quarterly*, *3*(3), 299-307.
- Brown, K. (2003). "Three Challenges for a Real People-centred Conservation." *Global Ecology & Biogeography* 12: 89-92.
- Brown, W.H. & Fischer, A.F. (1918). Philippine mangrove swamps. Department of Agriculture and Natural Resources. Bureau of Fishery Bulletin No. 7.
- Buffle P., Nguyen T.Y. and Morten F.T. (2011). Community-based Mangrove Reforestation and Management in Da Loc, Vietnam. Ecosystems and livelihoods adaptation network (ELAN). Retrieved 20 March 2014, from http://www.asiapacificadapt.net/sites/default/files/resource/attach/Da%20Loc%20Vietnam%20Mangrove%20Project%5B1%5D.pdf
- Bunge, F.M. 1984. *Philippines, a Country Study*. The American University, Washington, D.C.
- Butler, R.W. (1993). *Tourism an evolutionary perspective*. In: Nelson, J. G.; Butler, R.; Wall, G. (eds.). *Tourism and sustainable development: monitoring, planning, managing*: 27-43. Waterloo: University of Waterloo.
- Byrne, J. & Inniss, V. (2002). *Island Sustainability and sustainable development in the context of Climate Change*, Sustainable Development for island Societies: Taiwan and the world, Asia Pacific program, Academia Sinica, Taipei Taiwan Complex Institutional Structures, *Journal of European Public Policy*, No 4, Pp. 109-127
- Campbell, D. T. & Stanley, J. C. (1963). *Experimental and quasi-experimental designs for research*. Chicago, IL: Rand McNally.
 - Carandang, A.P., Pulhin, J.M., Camacho, L.D., Camacho, S.C., Paras, F.D., Rosario, P.J.B.D., Tesoro, F.O. (2013). Transition to Sustainable Forest Management and Rehabilitation in the Philippines. College of Forestry and Natural Resources, University of the Philippines Los Baños.
 - Carney, D. (ed.) (1998). Sustainable rural livelihoods. What contribution can we make? Nottingham: Russell Press Ltd.
 - Chambers, R., & Conway G, R. (1992). Sustainable Rural livelihoods: Practical Concepts for the 21st Century. Discussion Paper 296, University of Sussex, Institute of Development Studies, Brighton.

- Chaskin, R. J., Brown, Prudence, Sudhir, V. & Avis, V. (2001). *Building Community Capacity*. New York: Aldine De Gruyter.
- Cheryl J. J., Fernandez, R. F., Subade & Parreño, P.E.T. (2005). 8th National Symposium in Marine Science held in Palawan State University, Puerto Princesa City on October 20-22, 2005.
- Cicourel, A. & Kitsuse, J. (1963). A note on the uses of official statistics. *Social Problems*, 11 (2), 131–139.
- City Environment Office. (2011). *Love affair with nature and pista y ang kagueban*. Internal communication document. Puerto Princesa City: Unpublished.
- City Information Office. (2007). *Socio Economic and Economic Profile*, internal communication document, Puerto Princesa City.
- City Information Office. (2010). Puerto Princesa interview using an internal communication document, City Hall, City of Puerto Princesa.
- City Information Office. (2013). Puerto Princesa interview using an internal communication document, City Hall, City of Puerto Princesa.
- City Planning Office. 2013. 2013 Annual Investment Program. City of Puerto Princesa. Unpublished.
- City Tourism Office. (2012). *Puerto Princesa City tourism situationer*. City Coliseum, Puerto Princesa City.
- City Tourism Office. 2013. Puerto Princesa Tourism Situationer. Ecotourism strategic planning workshop- July 2013, Presented by Rebecca. V. Labit.
- Creswell, J.W. (2009). Research design: Qualitative, quantitative, and mixed methods approaches. Thousand Oaks, CA: SAGE Publications, Inc.
- Creswell, J.W. (2013). *Qualitative inquiry & research Design: Choosing among five approaches*. Thousand Oaks, CA: Sage Publications, Inc.
- Creswell, J. W. & Clark, V. L. P. (2011). *Designing and conducting mixed methods research* (2nd ed.). Thousand Oaks, CA: SAGE Publications, Inc.
- Creswell, J.W., Klassen, C., Clark, V.L.P., & Smith, K.C. (2011). *Best practices for mixed methods research in the health sciences*. Commissioned by the Office of Behavioral and Social Sciences Research (OBSSR). Retrieved 12 December 2013, from

- http://obssr.od.nih.gov/scientific_areas/methodology/mixed_methods_research/pdf/Best_
 Practices for Mixed Methods Research.pdf
- Crouch, S. C. & Housden, M. (2003). *Marketing research for managers* (3rd ed.). Oxford: Butterworth-Heinemann.
- Coleman, J. (1988). 'Social Capital in the Creation of Human Capital'. *American Journal of Sociology*, Supplement 94: S95-S120.
- Contreras-Hermosilla, A. (2000). "The Underlying Causes of Forest Decline." CIFOR Occasional Paper No. 30. Bogor: Center for International Forestry Research.
- Davies, S., (1997). 'Livelihood adaptation', Paper for workshop Making Livelihoods work women, men and children in Rajasthan', mimeo, Brighton: IDS
- Dawning, S. Liu, Iverson, L. R. & Brown, S. (1993). "Rates and Patterns of Deforestation in the Philippines: Application of Geographic Information System Analysis." *Forest Ecology and Management* 57: 1-16.
- Department for Social Development. 2008. Voluntary and Community Sector Community

 Capacity Building http://www.dsdni.gov.uk/vcni-community-capacity-building.pdf

 accessed 2 February 2014
- Dela Cruz, E. (1941). "The Socio-economic Significance of the Philippine Forest." *The Philippine Journal of Forestry* 4(2): 141-160.
- Department of Environment and Natural Resources. (1989). "Community Forestry Program Manual of Operation." Pp. 172–187 in *Policies, Memoranda and Other Issuances on the National Forestation Program*. Quezon City, Philippines: Department of Environment and Natural Resources.
- Department of Environment and Natural Resources. (1996). "DENR Administrative Order No. 96-29." 10 October. Quezon City, Philippines: Department of Environment and Natural Resources.
- Department of Environment and Natural Resources. (2011). Interviews with officials using internally used documents.
- Department of Environment and Natural Resources. (2003). Forest Management Bureau. Retrieved 8 September 2013, from http://forestry.denr.gov.ph/reqcbfma.htm.
- Denzin, N. K. & Lincoln, Y. S. (Eds.). (2005). *The SAGE handbook of qualitative research* (3rd ed.). Thousand Oaks, CA: *SAGE Publications, Inc.*

- Dimitrios, S., Terzidou, M. & Terzidis, K. (2007). *Island tourism and its socio economic impacts*.

 Retrieved 10 June 2013, from http://mibes.teilar.gr/proceedings/2007/poster/Stylidis-Terzides%20M-Terzidis%20K.pdf
- Dodds, R. & McElroy, J. (2008). *St Kitts at a crossroads'*, ARA journal of travel Research; 2008. 1(2): 1-10
- Duke, N.C., Meynecke, O.J., Dittmann, S., Ellison, A.M., Anger, K., Berger, U. Cannic, S., Eiele, K., Ewel, K.C., Field, C.D., Kodedam, N., Lee, S.Y., Marchand, C., Nordhanus, L., & Dahdough-Guebas. (2007). A world without mangroves? www. sciencemag.org. p 41.
- Earth Summit. (2012). Retrieved 06 July 2013, from http://www.earthsummit2012.org/about-us/sd-timeline,
- European Environment Agency. (1999). *Europe's environment: The second assessment*. Luxembourg: Office for Official Publications of the European Communities.
- Fernandez, P.M. (1978). Regulations and their impact on mangrove areas for aquaculture the Philippine experience. Workshop Proceeding on the conversion of mangrove areas to aquaculture, Iloilo, pp. 78-84.
- Figueroa, M., Elling, B., Jelsoe, E. & Neilson, K. A. (2010). *A New Agenda for Sustainability*, Ashgate Publishing Limited
- Flyvbjerg, B. (2006). Five misunderstandings about case-study research. *Qualitative inquiry, 12* (2), 3–4. Retrieved 5 November 2013, from http://arxiv.org/ftp/arxiv/papers/1304/1304.1186.pdf
- Flyvbjerg, B. (2007). Five misunderstandings about case-study research. In C. Seale, G. Gobo, J. F. Gubrium, & D. Silverman (Eds.), *Qualitative research practice*. (pp. 390-404). London, Thousand Oaks, New Delhi: SAGE Publications, Inc.
- Flyvbjerg, B. (2011). Case study. In Norman K. Denzin and Yvonna S. Lincoln (Eds.), *The Sage Handbook of Qualitative Research* (4th ed.). Pp. 301-316. Thousand Oaks, CA: SAGE Publications, Inc.
- Food and Agriculture Organization. (1978). *Forestry for local community development*. FAO Forestry Paper No. 7, Rome, Italy.
- Food and Agriculture Organization. (1989). Review of forest management systems of tropical

 Asia: case studies of natural forest management for timber production in India, Malaysia and the Philippines. Rome, Italy.

- Food and Agriculture Organization. (2000). *Global forest resource assessment*. Main Report 2000. FAO Forestry Paper 140. Rome, Italy.
- Food and Agriculture Organization. (2001). State of the world's forests. Rome, Italy.
- Food and Agriculture Organization of the United Nations. (2006). "Global Forest Resources Assessment 2005, Progress towards sustainable forest management." Rome, Italy.
- Food and Agriculture Organization. (2006). *Global Forest Resources Assessment 2005: Progress Towards Sustainable Forest Management*. Rome, Forestry Department.
- Food and Agricultural Organization. (2008). Socio-Economic & Livelihood Analysis in Investment Planning. FAO Policy Learning Programme, Module 3: Investment and Resource Mobilization, Session 7: Socio-Economic and Livelihood Analysis.
- Food and Agriculture Organization of the United Nations. (2010). *Global Forest Resources Assessment 2010 Terms and Definitions*. Working Paper 144/E. Rome, Italy.
- Food and Agriculture Organization. (2012). *State of the world's forests*. Rome, Italy: United Nations.
- Forest Management Bureau. (2005). *Philippine Forestry Statistics*. Quezon City, Philippines: Department of Environment and Natural Resources, Forest Management Bureau.
- Freeman, R. E., (1984). Strategic Management: A stakeholder approach, Pitman-Ballinger, Boston.
- Freeman, R. E., (1994). 'The Politics of Stakeholder Theory: Some Future Directions.' Business Ethics Quarterly, vol. 4, no. 4, pp. 409-421.
- Friedmann, J. (1992). *Empowerment: The Politics of Alternative Development*. Cambridge: Blackwell.
- Gabito, O.A., (2012). Growing Rural Employment through Community-Based Tourism. Institute for Labor Studies. Discussion Paper Series 2012
- Ganapin, D. (1987). The Timber Trade of the Philippines. *Forest Resources Crisis in the Third World*. Sabahat Alam Malaysia.
- Garrity, D. P., Kummer, D. M. & Guiang, E.S. (1993). *The upland ecosystem in the Philippines:* alternatives for sustainable farming and forestry. National Academy Press, Washington, D. C.
- Giddings, B. Hopwood, B & O'Brien, G. (2002). *Environment, Economy and Society: fitting them together in to Sustainable Development*, Sustainable Cities Research Institute,

- Newcastle upon Tyne, UK sustainability of communities and the maintenance of cultural diversity, John Wiley & Sons, Ltd and ERP Environment.
- Graceffo, A. (2007). "Puerto Princesa: The Philippines' Cleanest and Greenest City." wildasia.org. http://www.wildasia.org/main.cfm/RTI/Puerto_Princesa:_(accessed 12th July 2013).
- Graceffo, A. (2007). "Philippines: The Feast of Forest and Crocodiles." escapeartist.com. http://www.escapeartist.com/efam/91/art_phillipines.html (accessed 12th July 2013).
- Gracy S., Dodds R. (2010). Sustainable tourism in Island Destinations, Earthscan, London.
- Guiang, E. S., Borlagdan, S.B. & Pulhin, J. M. (2001). "Community-Based Forest Management in the Philippines: A Preliminary Assessment." Quezon City: Institute of Philippine Culture, Ateneo de Manila University.
- Guillermo, Mendoza A., and Prabhu Ravi. (2005). "Combining participatory modeling and multi-criteria analysis for community-based forest management." *Forest Ecology and Management*, 207(1–2): 145–156.
- Guyer, C. & Pollard, J. Cruise visitor impressions of the environment of the Shannon-Erne waterways system. Journal of Environmental Management. 1997. P. 51, Pp. 199–215.
- Hagedorn, Edward. (2010). "Puerto Princesa City." Presentation at the welcome dinner for newly married couples. (14 February 2011).
- Hagedorn, Edward. (2012). "Puerto Princesa City." Presentation at the thanks giving and information sharing dinner for city officials. (13 February 2012).
- Hardi, P. & Zdan, T. (1997). Assessing *Sustainable Development*. International Institute for Sustainable Development: Winnipeg.
- Harper, D. (2001). *Changing works: Visions of a lost agriculture*. Chicago: University of Chicago Press.
- International Institute for Sustainable Development. (1997). Sustainable Development Timeline. Retrieved on 20 July 2012, from http://www.iisd.org/rio+5/timeline/sdtimeline.htm
- International Institute for Sustainable development. (2012). Sustainable Development Timeline. Retrieved on 20 July 2012, from http://www.iisd.org/pdf/2012/sd timeline 2012.pdf
- James, N. (2007). Qualitative versus quantitative research: Key points in a classic debate.

 Retrieved 13 November 2013, from

 http://wilderdom.com/research/QualitativeVersusQuantitativeResearch.html.

- Javelosa, J. E. (2010). Feast of the forest. Philstar.com. Retrieved 10 June 2013, from http://www.philstar.com/allure/593897/feast-forest.
- Jayagoda, D. (2011). The Performances of Sustainable Environmental Development Projects

 (Mangrove Plantation) in Puerto Princesa City, Palawan Philippines. Master's Thesis.

 Ritsumeikan Asia Pacific University Japan.
- Jayagoda, D. (2012). *Valentine's Day and the Environment: A "Love Affair with Nature"*, Voices from the sylff community; Retrieved 2 October 2013, from http://www.tokyofoundation.org/sylff/9227).
- John, T. I.& Marijke, B. (2011). Chapter 60: Qualitative versus quantitative research. *21st century political science: A reference handbook.* Thousand Oaks, CA: SAGE Publications, Inc.
- Lasco, R.D., Visco, R.G. & Pulhin, J.M. (2001). "Secondary forests in the Philippines: formation and transformation in the 20th century." *Journal of Tropical Forest Science* 13 (4): 652-670.
- Kathiresan, K. & Bingham B. L. (2001). *Biology of mangrove and mangrove ecosystems*. Advances in Marine Biology.
- Khanya. (2000). Guidelines for Undertaking a Regional/National Sustainable Rural Livelihoods Study. Department for International Development. Khanya – managing rural change
- Krantz, L. (2001). The Sustainable Livelihood Approach to Poverty Reduction, An Introduction. Swedish International Development Cooperation Agency, Division for Policy and Socio-Economic Analysis. Retrieved 10 Feb 2014, from http://www.forestry.umn.edu/prod/groups/cfans/@pub/@cfans/@forestry/documents/asset/cfans-asset-202603.pdf
- Kelleher, G., Bleakley, C. & Wells, S. (1995). *A Global Representative System of Marine Protected Areas*. Volume 1. Great Barrier Reef Marine Park Authority, The World Bank and World Conservation Union.
- Krishna, K. (1987). *Rapid, low-cost data collection methods for A.I.D.* Washington, D.C.: United States Agency for International Development.
- Krishna, K. (1990). Conducting mini surveys in developing countries: A.I.D. program design anevaluation methodology. Washington, D.C.: United States Agency for International Development.

- Krishnapillay, D. B., Kleine, M., Rebugio, L.L. & Lee, K.D. (2007). "Rehabilitation of Degraded Forest Lands in Southeast Asia A Synthesis Keep Asia Green, Southeast Asia." Edited by Don Koo Lee. *International Union of Forest Research Organizations (IUFRO)* World Series Vol. 20-I.
- Kummer, D. M. (1992). *Deforestation in the Postwar Philippines*. Geography Research Paper No. <u>234.</u> University of Chicago.
- Lenschow, A., Ed. (2002). *Environmental policy integration: Greening sectoral policies in Europe*. London: Earthscan.
- Lenschow, A. (2002). "New Regulatory Approaches in 'Greening' EU Policies" in *European Law Journal* 8(1): 19-37.
- Lenschow, A. (2002). "Greening the European Union: An introduction". *Environmental policy integration: Greening sectoral policies in Europe*. A. Lenschow. London: Earthscan.
- Lenschow, A. (2002). "'Greening' the European Union are there lessons to be learned for international environmental policy?" in *Global Environmental Change* 12: 241-245.
- Lenschow, A. (2002). "Conclusion: What are the bottlenecks and where are the opportunities for greening the EU?" *Environmental policy integration: Greening sectoral policies in Europe*. A. Lenschow. London: Earthscan.
- Liberatore, A. (1997) "The Integration of Sustainable Development Objectives into EU Policymaking: Barriers and Prospects", Baker, S., Kousis, M., Richardson, D. and Young S. (eds.), The politics of sustainable development: theory, policy and practice within the European Union. London: Routledge, 108-126.
- Lincoln, Y. S. & Denzin, N. K. (2003). Turning points in qualitative research: Tying knotsin a handkerchief. In Denzin, Norman K. & Lincoln, Yvonna S. (Eds.), *Crossroads in Qualitative Inquiry*. (pp. 1-10). Walnut Creek: Alta Mira Press.
- Lockhart, D.G. (1997). *Islands and tourism: an overview*. In: D.G. Lockhart and D. Drakakis Smith (eds) Island Tourism Trends and perspectives. London: Pinter. Pp. 3 21.
- Lovelock, J. (1988) *The Ages of Gaia: A Biography of our Living Earth*. Oxford University Press: Oxford.
- Lykes, M. B. (2006). Creative arts and photography in participatory action research in Guatemala. In Reason, Peter & Bradbury, Hilary (Eds.), *Handbook of action research*.(pp.

- 269-278). London: SAGE Publications Ltd. *Natural Resources and Development*. Pp. 37 57.
- MacQueen, K. M., McLellan, E., Metzger, D. S., Kegeles, S., Strauss, R.P., Scotti, R., Blanchard,
 L. & and Trotter, R.T, (2001). What Is Community? An Evidence-Based Definition for
 Participatory Public Health. American Journal of Public Health: December; 2001 Vol.
 91, No. 12, pp. 1929-1938.
- Maltby, E. (1986). *Waterlogged Wealth: Why Waste the World's Wet Places?* London: Earthscan Publications.
- Mangrove Action Project (MAP). (2013) *Tourism*. Retrieved 30 December 2013, from http://mangroveactionproject.org/issues/tourism
- Mastaller, M. (1996). Destruction of mangrove wetlands causes and consequences.
- Melana, D. M. (2000). *Mangrove Management Handbook*. Manila: Coastal Resource Management Project of the Department of Environment and Natural Resources.
- Miyoshi, K., Satoshi, M. & Yoshio, A., (2003) *Toward Constructing More Suitable Program Theory for Japan's Evaluation: Focusing on International Cooperation Evaluation and Policy Evaluation*. The Japanese Journal of Evaluation Studies 3(2): Pp. 40 56. (in Japanese).
- Miyoshi, K. & Stenning, N. (2008). *Designing Participatory Evaluation for Community Capacity Development: A Theory-driven Approach*. Japanese Journal of Evaluation Studies, 8(2): 39-53.
- Montenegro, Arnold. (2012). "Puerto Princesa's 'Feast of the Forest' sees 2M trees planted." *InterAksyon*. http://www.interaksyon.com/lifestyle/puerto-princesa%E2%80%99s-%E2%80%98feast-of-the-forest%E2%80%99-sees-2m-trees-planted (accessed 19 August 2013).
- Neale, P., Thapa, S. & Boyce, C. (2006). *Preparing a case study: A guide for designing and conducting a case study for evaluation input*. Pathfinder International Tool Series, Monitoring and Evaluation. Retrieved 23 November 2013, from http://www2.pathfinder.org/site/DocServer/m_e_tool_series_case_study.pdf
- Naylor, R.L., Goldburg, R.J., Primavera J.H., Kautsky, N., Beveridge, M.C.M., Clay, J., Folke C., Lubchenco, J., Mooney, H. & Troell, M. (2000). *Effect of aquaculture on world fish supplies*. Nature 405; 1017–1024.

- Noy, C. (2008). Sampling knowledge: The hermeneutics of snowball sampling in qualitative research. *International journal of social research methodology*, 11 (4), 327–344.
- Ooi, Jin Bee. (1987). *Depletion of the Forest Resources in the Philippines*. Field Report Series No. 18. Singapore: Institute of Southeast Asian Studies.
- Organization for Economic Co-Operation and Development (OECD). (2002). *Improving policy coherence and integration for sustainable development: A checklist*. Paris: OECD.
- Ozaeta, A. (2012). "2 M Trees Planted in Palawan Forest." *The Philippine Star*, 3 July. http://www.philstar.com/nation/2012/07/03/823778/2-m-trees-planted-palawan-forest (accessed 24 January 2014).
- Ozaeta, A. (2012). "Puerto Princesa: From leper colony to global eco-tourism city." ABS-CBN Southern Tagalog, 3 July. Retrieved 24 January 2014, from http://www.abs-cbnnews.com/nation/regions/07/03/12/puerto-princesa-leper-colony-global-eco-tourism-city
- PCSD [Palawan Council for Sustainable Development]. (2010). Puerto Princesa. Interview using internal unpublished data, PCSD, City of Puerto Princesa.
- Primavera, J. H. (2000). Development and Conservation of Philippines Mangroves: Institutional issues, Ecological Economics, vol 35; 2000. p. 91.
- Putnam, R. (2000). *Bowling Alone: The collapse and revival of American community*. New York: Simon & Schuster.
- Quintos, M. (1989). "The log export restriction policy and the development of forest industries in the Philippines." Master's Thesis. The Australian National University, Canberra, Australia.
- Ragin, C. (1994). *Constructing Social Research: The Unity and Diversity of Method*. Thousand Oaks, California: Pine Forge Press.
- Ragin, C. (2000). What is a case? London, Cambridge University Press.
- Ragin, C. (1994). *Constructing social research: The unity and diversity of method*. California: Fine Forge Press.
- Rapley, T. (2007). Interviews. In C. Seale, G. Gobo, J. F. Gubrium, & D. Silverman (Eds.), *Qualitative research practice*.(pp. 16–27). London: SAGE Publications Ltd.
- Rapoport, R. N. (1970). Three dilemmas in action research. *Human relations*, 23, 499-513.

- Rebecca, V. L. (2013) Puerto princesa City. Tourism Situationer. Ecotourism Strategic planning Workshop. Retrieved 21 December 2013, from http://www.visitmyphilippines.com/images/ads/1a90d350d3a7d506c964731b7cc15a69.p df
- Rebugio, L.L., Cruz, R.V. O., Carandang, W. M., Tolentino, E. L., Cruz, R. D. Lasco, Visco R.G., Dizon, J.T., Pulhin, F. B., Dalmacio, R. V., Bantayan, N. C., Calderon, M. M. & Camacho, L. D. (2005). *Forest restoration in the Philippines. A review of research and development initiatives*. University of the Philippines Los Baños, Office of the AKECOP Coordination in the Philippines, College of Forestry and Natural Resources, College, Laguna.
- Rebugio, L. L., Pulhin, J.M., Carandang, A.P., Peralta E.O., Camacho L.D. & Bantayan, N.C. (2007). "Forest Restoration and Rehabilitation in the Philippines." Edited by Don Koo Lee. *International Union of Forest Research Organizations (IUFRO) World Series* Vol. 20-I Keep Asia Green, "Southeast Asia." Volume I.
- Research and Development and Extension (RDE). (2007). Framework on Environment and Natural Resources 2007 2010. College, Laguna: DENR-ERDB. P39, P43, 62 65.
- Rietbergen-McCracken, J. & Narayan, D. (1998). *Participation and social assessment: Tools and techniques*. Washington, D.C.: International Bank for Reconstruction and Development World Bank.
- Sautter, E. T. & Birgit Leisen. (1999) Managing Stakeholders: a Tourism Planning Model. Annals of Tourism Research, 26 (2), 312-328.
- Schutt, R.K. (2012). *Investigating the social world: The process and practice of research* (7th ed.). SAGE Publications, Inc.
- Scoones, I. (1998) *Sustainable Rural Livelihoods: A framework for analysis*. IDS, Working Paper 72, IDS, Brighton, UK.
- Stenning, N. (2007). Decentralization and Community Capacity: A Case Study of Community Capacity in the Context of Decentralization in Indonesia, (Master Thesis: Ritsumeikan Asia Pacific University) unpublished paper.
- Stenning, N. (2013). Constructing Oyama rural community capacity, policy structures and change, (PhD dissertation: Ritsumeikan Asia Pacific University) unpublished paper.

- Silverman, D. (2005). *Doing qualitative research*(2nd ed.). Thousand Oaks, CA: SAGE Publications, Inc.
- Spalding, M., Blasco, F. & Field, C. (1997). World Mangrove Atlas. International Society for Mangrove Ecology, World Conservation Monitoring Centre.
- Spalding, M., Kainuma, M., & Collins, L. (2010). *World atlas of mangroves*. Earthscan Publications.
- Stake, R. E. (1995). *The art of case study research*. Thousand Oaks, London, New Delhi: SAGE Publications, Inc.
- Stringer, E. (2004). Action research in education. Upper Saddle River, NJ: Pearson.
- Swarbrooke, J. (1999). Sustainable Tourism Management. New York: CABI
- The Brundtland Commission, 1987, Our Common Future, The Report of the World Commission on Environment and Development (Oxford University Press, Oxford).
- Thorpe, R. & Holt, R. (2008). *The SAGE dictionary of qualitative management research*. London: SAGE Publications Ltd.
- TrioQueen (2013). Destination: Ugong Rock. Retrieved 10 Dec 2013, from http://trioqueentravel.com/destination_ugong_rock.php
- Tripadvisor. (2013). "Community Based Sustainable Tourism". Review of Ugong Rock
 Tagabinet, Puerto Princesa, Palawan Island, Philippines. Accessed 21 March 2014 from
 http://www.tripadvisor.com.au/ShowUserReviews-g294257-d2104146-r155323776-Ugong Rock Puerto Princesa Palawan Island Palawan Province Mimaropa.html
- Tsung hsiu, Tse fong. (2002). Community-based Environmental Management and Sustainable Development, the world forum of sustainable development: Economy, Environment and Society, Johannesburg, South Africa.
- Uğur Akdu and Nalan Pehlivan 2013, Social Participation in Sustainable Tourism Development,

 Academia.edu, Retrieved 28 June 2013, from

 http://academia.edu/2962981/SOCIAL_PARTICIPATION_IN_SUSTAINABLE_TOURISM_DEVELOPMENT,
- UNCED (United Nations Conference on Environment and Development). (1992). "AGENDA 21." Rio de Janerio, Brazil, 3-14 June 1992.
- United Nations. (1987). "Our Common Future." Report of the World Commission on Environment and Development.

- United Nations. (2012). "The Future We Want." UN Web Services Section, Department of Public Information, http://www.un.org/en/sustainablefuture/ (accessed 6 November 2013).
- United Nations. (2013). Sustainable Development Challenges, World Economic and Social Survey 2013, Department of Economic and Social Affairs, New York.
- Valiela, I. J.L., Bowen J.K. & York. (2001). Mangrove Forests: One of the World's Threatened Major Tropical Environments. BioScience; 51(10), 807-815.
- VisitPuertoPrincesa.com. 2014. Major Awards of Puerto Princesa. Retrieved 16 February 2014, from http://www.visitpuertoprincesa.com/index.php?option=com_content&task=view&id=93 &Itemid=193
- Wallace, M. B. (1993). "Philippine Forests: Private Privilege or Public Preserve?" Paper presented at Fourth Annual Common Property Conference, International Association for the Study of Common Property, Manila, 19 June.
- Weiss, C. H. (1998). Evaluation. Upper Saddle River, NJ: Prentice-Hall, Inc.
- Westoby, J. (1989). Introduction to World Forestry. Oxford: Basil Blackwell.
- World Bank Institute (2005). *Capacity Matters: Operational Implications, Highlights of a One-Day Conference*. Wednesday, June 8, 2005. Preston Auditorium, World Bank Main Complex, Washington, D.C.
- World Commission on Environment and Development (WCED). (1987). *Our Common Future*, Oxford University Press, Oxford.
- World Resources Institute (WRI). (1996). *World Resources 1996-7*. New York: Oxford University Press.
- World Tourism Organization (WTO) UNEP and UNWTO. (2005). *Making Tourism More Sustainable A Guide for Policy Makers*.
- Yin, R. K. (1994). *Case study research: Design and methods* (2nded.). Thousand Oaks, CA: SAGE Publications, Inc.
- Yin, R. K. (2003). *Case study research: Design and methods*(3rded.). Thousand Oaks, CA: SAGE Publications, Inc.
- Yin, R. K. (2009). *Case study research: Design and methods* (4th ed.). Thousand Oaks, CA: SAGE Publications, Inc.

Yorghose, A., & Dennis J., G. (Eds.). (2002). *Island Tourism and Sustainable Development,*Caribbean, Pacific, and Mediterranean Experience. United States of America: Praeger Publishers.