GEOSFERA INDONESIA



p-ISSN 2598-9723, e-ISSN 2614-8528 Vol. 3 No. 2 (2018), 131-145 , August, 2018

https://jurnal.unej.ac.id/index.php/GEOSI

DOI: 10.19184/geosi.v3i2.8384

GEOGRAPHY LITERACY OF OBSERVATION INTRODUCTION LANDSCAPE REPRESENTATION PLACE FOR STUDENT EXPERIENCE (Ethnomethodology Perspective)

Fahrudi Ahwan Ikhsan¹, Fahmi Arif Kurnianto², Bejo Apriyanto³, Elan Artono Nurdin⁴

1,2,3,4 Department of Geography Education, University of Jember, Indonesia
Email: ahwan.fkip@unej.ac.id

Received: 23 June 2018/Revised: 7 July 2018/Accepted: 18 August 2018/Published online: 28 August 2018

Abstract

This study aims to describe the understanding of geography literacy and student experience with landscape recognition observations using an ethnometodology perspective. The subject of this study was the chairman of each landscape recognition practice group student geography education program from University of Jember. The results of this study that geography literacy has a dimension of relevance to geographic skills in representing contextual phenomena and places from landscape recognition observation activities. The results of both observational studies provide research experience, motivation, critical and scientific thinking skills for students represented in the mapping of the area.

Keywords: Geography Literacy, Student Experience, Ethnometodology

1. Introduction

Geography education is needed in understanding the phenomena, location, and world for prespective geographers. Geography literacy has an influence to explain physical information and human activities. Geography literacy skills are needed in the observation of landscape recognition. Turner and Leydon (2012), explained that literacy geography skills are very valuable for students in connecting the concepts and theories that are being learned at this time throughout the world. The component of spatial literacy in geography includes component of the concept of space, representational tools, and thought processes (NRC, 2006). Students must be able to visualize the geospatial distribution of culture, economics and natural resources to understand the complexity of the environment globally (Guertin et al., 2012). Knowledge geography literacy is used to understand, process, and utilize spatial data (Turner and Leydon, 2012).

The implementation of geography literacy is significantly influential in building spatial knowledge of students. Every individual has a different structure in processing

information and spatial thinking ability in the neurological system (Levinson, 2003). One method of observation that can be used to analyze geographic phenomena contextually in the learning of spatial literacy. Field observation activities in the introduction of landscapes are more centered on student activity. An integral component of the observation approach taken by students requires lecturers as facilitators and controls in the learning process (Chappell, 2007). Relations in observation activities will build communication between lecturers and students. Reflective participation and attitudes need to be shown by lecturers to students in providing an understanding of the introduction of landscapes.

The experience student from the practice of landscape recognition lectures serves to provide a reality picture of geographic phenomena occurring on the surface of the earth. The results of reflection from practice can build students' cognitive, affective, and psychomotor skills. Geography literacy in the observation landscape recognition requires high-level skills. Cotton et. al (2010), stated that geographic observation methods can provide selective, rational experience and behavior as well as arguments from observations. Special attention to observation methods of aspects affective experience in particular include attitudes, motivation, and student responses (Boyle et.al, 2007; Stokes & Boyle, 2009).

The purpose of this study was to determine the experience of student literacy geography in landscape recognition practices as a representation of places. The studies observed include physical phenomena and human activities in an integrated manner. The experience of students' geography literacy of landscape recognition practices was identified from their participation during observation activities.

2. The Methods

The method used in this research is qualitative with ethnometodology approach. This approach is used to understand the natural actions of a particular ethnic group, the study includes social agents of the community, understand their lives (a group of human life), and how they are sustained every day when interacting with their groups (Fatchan, 2015). Qualitative researchers aim to develop strategies and procedures by considering experience from the perspective of informants (Bogdan & Biklen, 1998). Qualitative research provides an opportunity to develop understanding of subject matter well (Denzin & Lincoln, 2008).

The subject of this study was the head of the landscape learning field practice group as many as 8 students. The information studied is distinguished the reasons: (1) Geography literacy understanding of students in the practice of landscape recognition observation lectures which are represented in the volcanology area of the Bromo Mountain in

Probolinggo Region; and (2) The experience gained by students from the observation of landscape recognition as a representation of a place in the volcanology area of Mount Bromo, Probolinggo Region. Individual experiences and insights are an important part of inquiry and critical thinking to understanding the information from interviews (Patton, 2002).

Data collection techniques are carried out by interviewing and documenting the research subject in depth. The informants in this study were students who took part in a landscape recognition introduction practice program in the volcanology area of the Bromo Mountain in Probolinggo Region. Data from the interviews were analyzed descriptively with the coding matrix of the informants. The coding technique is used to explore and connect between codes with each other. Themes and concepts are interpreted to prepare final reports in research (Miles, Huberman, & Saldana, 2015)

3. Results and Discussion

The informants in this study were taken from the chair landscape recognition practice group student of Geography Education Program in University Jember. Researchers choose informants according to activities the field in assessing geographic locations and phenomena. Researchers get informant with direct interviews with 8 selected students including: (1) Rislianta Alsabila (RA); (2) Cindy Eka Pratiwi (CEP); (3) Achmad Dwi Kurniawan (ADK); (4) Eva Kurniasari (EK); (5) Aisyah Widatul Khoiroh (AWK); (6) Moh. Fajar Septarianto (MFS); (7) Shandy Choirul Fatah (SCF); dan (8) Arum Cahyaning Utami (ACU). The eight informants provided data in the study with the following explanation:

Table 1: Geography Literacy in Practical Observation of Field Learning Introducation Landscape Recognition in Bromo Mountain Probolinggo Regency

No.	Name of Informant	Information	The Theme Found
1.	Rislianta Alsabila (RA)	1. "The definition and essence of geography becomes difficult to understand when learning in class"	1. Feeling an understanding of the concept of geography
		2. "I understand the use of geographic principles and concepts in accordance with the facts in the field"	2. Easy application in the field
		3. "Understanding of natural and human phenomena can be studied in an integrated manner"	3. Studying geography needs as a whole

"The geographic phenomenon 4. Regional differences 4. is influenced by the location affect geographic and place that distinguishes understanding compared to other regions" 5. "Landscape recognition introduction activities need to 5. Studying geography understand the geosphere study must be integrated 6. "Observation of landscape 6. Theories about recognition uses more geographic concepts applications of concepts and and principles are needed in the field principles from geography" 2. Cindy Eka 1. "Geography literacy in its 1. The implementation of Pratiwi (CEP) application in the field requires geographic literacy is an understanding of spatial influenced by spatial thinking" thinking skills 2. "Geography literacy builds on 2.Studying the region geographic thinking in needs to master interpreting phenomena, spaces geographic literacy and locations to study territory" 3. "I feel the application of field 3. Understanding and observation is easier in knowledge are more providing knowledge and easily obtained from understanding of geography the results of field studies" practice 4. "Objects of geography studies, 4. Understanding of principles and concepts needed phenomena can be in interpreting the location of analyzed with observation" geographic concepts 5. "Group collaboration is needed and principles 5. Collaboration with key to study geographic phenomena in an integrated manner" field practice teams 6. "The fact is that natural 6.Natural and human phenomena affect human phenomena are activities at locations around interconnected Bromo Mountain" 7. "I have difficulty distinguishing 7. The geographical spatial and territorial approach is difficult to approaches in the introduction apply in observation of landscape recognition applications" 8. "Field observations provide 8. Feel an experience that valuable experience because is hard to forget they demand critical and scientific thinking" 3. 1. "Geography literacy means Achmad Dwi 1. Assessing the understanding natural and location and place Kurniawan human phenomena, location, requires geographic (ADK) place and region" literacy skills 2. "I think geography literacy is Geography literacy is

			part of spatial or geographic		broader in substance
		2	thinking"	2	than spatial thinking
		3.	"Observations in the	3.	Geography discipline
			introduction of landscapes		as the parent of
			provide an illustration that		science
			geography studies are in fact		
			very broad"		
		4.	"Field observation applications	4.	Need to master
			require spatial thinking skills,		geography skills in
		_	geography, and area mapping"	_	the application
		5.	"Field observation activities	5.	Experience in
			provide experience in studying		studying facts and
			phenomena, locations and		concepts in discipline
			places, and areas on the surface		geography
		,	of the earth"	_	TT 1 . 1'
		6.	"I feel that geographical	6.	Understanding
			literacy is influenced by an		theoretically
			understanding of the definition		influences the
			of geography, concepts,		application of
			principles, and objects of study from geography"		geography literacy
		7.	"Landscape recognition	7.	Thematic mapping of
			observations provide experience		regional phenomena
			that implementation in		
			assessing geographic problems		
			requires geological and		
			geomorphology maps"		
		8.	"Observation activities provide	8.	Lifelong experience
4	F 77		lifelong experience"		DI
4.	Eva Kurniasari	1.	"The geography phenomenon in	1.	Phenomena
	(EK)		the field includes physical and		
		2	human"	2	T1
		2.	"Principles and concepts of	2.	The essence of
			geography of the main		geography concepts
			provisions in observing the		and principles
			introduction of landscapes in the field"		
		3	"Observation activities must	3	Map as supporting
		٥.	bring maps as material to	٥.	application research
			understand the phenomena"		application research
		4	"Observation activities also	4	Research experience
		⊣.	provide experience in	⊣.	Research experience
			researching geographic		
			phenomena"		
		5	"I understand geography	5.	Geography literacy
		٥.	literacy part of the way of	٥.	part in understanding
			looking at phenomena with		phenomena at a
			environmental conditions in		particular location
			certain regions"		1
		6.	"Geography literacy is useful	6.	Regional potential
					<u> </u>

		for studying regional potential" 7. "Introduction to the landscape provides an overview of the		can be analyzed by geography literacy Geosphere study
		geosphere study as a whole"		
		8. "I understand the concepts and	8.	Concepts and
		principles of geography after		principles are easy to
		the field observation		understand through
		application"		practical learning
5.	Aisyah Widatul	1. "Geography literacy part of		Phenomena part of
	Khoiroh (AWK)	understanding phenomena in		geography literacy
		the field"	2	C 1
		2. "Geography literacy forms the		Concepts and
		use of geographic concepts and		principles of
		principles in analyzing cases in the field"		geography literacy
		3. "I feel that field observation		analysis The essence of
		activities are easier to		geography is easy to
		understand the essence of		learn
		geography"		Tour II
		4. "I think geography literacy is	4.	Geography literacy
		useful in building spatial		relates to the region
		thinking in studying the region"		_
		5. "Essential geography literacy	5.	Literacy skills in
		skills in location observation"		assessing location
		6. "The experience of geographic	6.	Spatial thinking
		literacy can be seen from the		
		way of spatial thinking"	7	
		7. "I feel the observation of more		Assessing regional
		landscape recognition activities		phenomena
		to study regional phenomena" 8. "Regional mapping needs to		specifically Region mapping
		build geographic literacy"	0.	Region mapping
6.	Moh. Fajar	1. "Geography literacy skills are	1.	Phenomena part of
٠.	Septarianto	useful in understanding all		geography literacy
	<u> </u>	v		
	` ,	Bromo Mountain"		
		2. "I feel the logic of geography	2.	Interpretation
		thinking is needed in studying		phenomena requires
		phenomena"		geography thinking
				geography literacy
			4	D
		· ·		
		• • • •		-
		9		
		- · ·		•
		- ·	٠.	
		6. "Field observations provide		
	(MFS)	 "I feel the logic of geography thinking is needed in studying phenomena" "I find it very difficult to develop geography literacy thinking skills" "As a geographer I feel the need for spatial thinking and literacy skills in studying the region" "Natural and physical phenomena are easy to learn as a geosphere study" 	3. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	phenomena requires

		experience in looking at the use of geography concepts" 7. "Geography thinking, analysis	6.	Application of the concept of geography
		and application skills are needed in building geography	7.	Geography literacy is influenced by individual skills in
		literacy" 8. "I find it a valuable experience that landscape recognition		analyzing and applying study
		observations provide an		geography
		illustration that geography	8.	Mental experience
		studies the region supported by		map to study the
		maps"		region
7.	Shandy Choirul	1. "I feel geography literacy is	1.	Geography literacy to
	Fatah (SCF)	useful in analyzing regions such	2	study the region
		as Bromo Mountain"	2.	Geography
		2. "Field observation activities provide an overview of	3.	phenomena Application of
		geography phenomena"	٥.	geography concepts
		3. "Geography literacy requires		and principles
		understanding geographic	4.	Analysis of regional
		concepts and principles"		studies requires
		4. "Geography literacy skills are		individual geography
		useful in analyzing phenomena		literacy skills
0		and regions as a whole"		TT1 1 0
8.	Arum	1. "I feel that geographical	1.	The study of
	Cahyaning	literacy not only means studying		geography literacy
	Utami (ACU)	location, but also places, relationships, activities, and		interpretation the location and place,
		regions"		the relationship of
		2. "Implementation of geographic		natural and human
		literacy requires geography		phenomena in certain
		thinking skills, geographic		regions
		analysis, and geography	2.	Geography literacy
		applications""		skills
		3. The observation of the	3.	Understanding of the
		introduction of landscape in the		concepts, principles
		Bromo Mountain area is more		and object of
		on understanding the concepts, principles and objects of	4.	geography studies The form and facts of
		geography study"	т.	the geosphere
		4. "The geosphere phenomena has		phenomena at the
		various forms in fact in the		observation site
		field"		

Based on the findings in matrix I, we can find the following propositions as follows. The practice geography literacy through field observations includes studies of phenomena, locations, places, interactions, activities, and environments for regional studies. The application of geography literacy needs to be supported by spatial thinking skills, analytical

thinking, and application of geography for prospective geographers. The essence of geographic concepts and principles is needed in contextual practice supported by maps as a support to understand geography literacy. Landscape recognition observation activities provide experience for prospective geographers in interpretation geographic locations and phenomena in the spatial, environmental and territorial viewpoints for certain places on the earth's surface. In research the application of geographic concepts and principles plays a role in building the dynamics of geographic literacy, especially with the support of geographic skills.

Table 2: The Student Experience of Result Observation the Introduction Landscapes in Bromo Mountains Probolinggo Regency

No.	Name of	Information	The Theme Found	
110.	Informant	mormation	The Theme Pound	
1.	Rislianta Alsabila (RA)	1. "Understanding concepts and theories is easier with field observation learning activities"	1. Learning observation	
		2. "I feel the introduction of the landscape provides a valuable knowledge experience in understanding phenomena, locations, activities, and regions"	2. Experience and knowledge about the essence of location, place and region	
		3. "I think that field observation activities are very helpful in critical research and thinking skills"	3. Research and critica thinking skills in field learning	al
		4. "Field observation activities provide experience in building geographical understanding for prospective geographers"	4. Geographical skills	
2.	Cindy Eka Pratiwi (CEP)	1. "Learning field observation is more interesting in providing experiences to build geography thinking"	1. The experience of applying geography thinking in the field	
		2. "The way of thinking in geography in my opinion includes the study of phenomena, location, place, activity, environment, and region"	2. The experience geography thinking	
		3. "I think field observation activities provide experience in examining physical and human	3. Research experience through observation learning activities	

		phenomena as part of the		
		analysis and application of geography"		
		4. "I feel the field observation activities train in scientific	4.	The scientific thinking skills
		thinking, especially in writing		tillikilig skilis
		field practice reports and		
3.	Achmad Dwi	making scientific articles" 1. "Observation activities give	1.	Contextual learning
3.	Kurniawan	me more contextual experience	1.	experience
	(ADK)	than learning in class"	2	TDI C
		2. "The practice of field lecture observation learning provides	2.	The essence of geography to study
		an overview of phenomena		the region
		formed due to the activity in certain areas"		
		3. "I feel that the practice of	3.	Understanding and
		introducing landscape		knowledge of
		recognition provides understanding and knowledge		geography disciplines about
		about phenomena, location,		location, place,
		place, interrelationships,		environment and
		activities within the scope of territory"		region
		4. "I have more motivated in	4.	The motivation to
		studying geography, especially related to integrated		learn geography
		geography" 5. "I feel observation activities	5.	The experiences of
		provide valuable experience in	٠.	research and testing
		researching and field testing"		in natural
		6. "Observation activities at Bromo Mountain help in	6.	laboratories The geographical
		scientific thinking which is		scientific thinking
		realized in the form of practicum reports and		skills
		scientific articles"		
4.	Eva Kurniasari	1. "I have real experience related	1.	The substance
	(EK)	to the essence of geography which includes phenomena,		studies discipline geography
		locations, places, activities,		
		relationships, environment and regions"		
		2. "I feel that spatial thinking	2.	The benefits of
		skills are more easily applied		practical learning in
		in the field directly than through classroom learning"		the field
		3. "Research activities train	3.	The competence and
		geography skills especially in analyzing physical and human		skills to examine geographical
		аналудың рыумсан ана патап		50grapinear

		phenomena specifically"		problems
		4. "The experience of observation activities motivates me to apply geography concepts, principles and perspectives in studying the region for all geography learning"	4.	Motivation implementation of concept, principle and perspective in studying geography
5.	Aisyah Widatul Khoiroh (AWK)	1. "Field observation learning provides an experience that is	1.	Life-long experience with contextual field
		not easily forgotten" 2. "More observation activities year graphic analysis alilla"	2.	observation The experience
		use geographic analysis skills"3. "The first landscape recognition research	3.	analytical skills The experience research
		experience for me" 4. "Observation practices critical and scientific thinking skills so that I am very motivated to be a geographer in analyzing facts and cases at Bromo Mountain"	4.	Geographers need critical and scientific thinking skills in studying phenomena
6.	Moh. Fajar Septarianto (MFS)	1. "Landscape recognition observation activities provide experience in testing, measuring, researching and analyzing geographic phenomena"	1.	The experience of field observation learning
		2. "Group collaboration is important in collaborative observation in the field"	2.	Learning collaboration
		3. "Landscape recognition observations provide first time experience while studying geography in applications"	3.	The experience geography learning applications
		4. "In my opinion, the application of concepts, principles, and point of view of geography is easier in the introduction of landscape recognition applications in Bromo Mountain"	4.	The geography applications are easier to apply directly in the field
		5. "I am as r geographers requires an understanding of the way of geography thinking in its entirety which includes understanding the phenomenon, location and place, activities, relationships, spatial, environmental, and territories as a whole"	5.	The geography thinking for geographs includes phenomena, locations and places, and regions

		6	"Field observation activities	6	Molzing thomatic
		0.	provide an overview to me in	6.	Making thematic maps from field
			developing thematic maps such		measurements
			as geological maps,		measarements
			geomorphology and land		
			suitability"		
		7.	"Observation activities require	7.	Student activity for
			students to be more active,		critical and scientific
			think critically, and think		thinking in
			scientifically in analyzing		observation learning
			problems in the field"		
7.	Shandy Choirul	1.	"Observation activities give	1.	The experience of
	Fatah (SCF)		me more lifelong experience in		lifelong learning
			studying geography"		
		2.	"I see geosphere studies need	2.	The relations
			each layer to have a		between the layers
			relationship in its application		of the geosphere
			in the field"		
		3.	"Field observation activities	3.	The first experience
			provide me with the experience		of trials and research
			of testing and research both		
			physical and human aspects		
			for the first time"		
		4.	J	4.	The field
			observations on applications in		observations of
			the interpretation of		application
			phenomena, location, place,		geography
			interaction and interrelation,		disciplines in
			activity, environment, and		location and place,
		_	territorial"		environment and
		5.	"I feel that observation	_	region
			activities require geography	5.	The geography skills
			thinking, analysis, and		require maps as a
			geography applications with		medium of
0	A C 1 :	1	cartographic support"	1	interpretation
8.	Arum Cahyaning	1.	"Observation activity on	1.	The experience
	Utami (ACU)		Mount Bromo is the first		geography research
			experience of research in		
			studying geography for me in		
		2	analyzing location and region"	2	The advantages of
		۷.	"Understanding geography	2.	The advantages of
			studies is easier by application		observation learning
			through field observation practices compared to theories		with field practice
			in classroom learning"		
		3	"I feel that observation	3.	The results of
		٦,	activities are easier to	٥.	observation learning
			translate into maps supported		with scientific
			by scientific reports"		reports supported by
		4	"I feel that group		mapping the area
		т.	1 jeer mar group		mapping the area

collaboration is very important every observation application research activities practice of introducing landscapes in in	4.	Collaboration research group
 BromoMountain"		

Based on the form of student experience as in matrix II new prepositions can be built. Landscape recognition observation activities provide experience for students throughout life in representing a place. Observation learning is very interesting to be applied directly in the field for geography disciplines. The applications of observation learning provide learning motivation for students to think critically and scientifically in interpreting geography phenomena. Observation serves to provide a research learning experience in constructing geographic thinking for each individual geographer contextually. Trial and measurement activities from observation activities are useful in the preparation of scientific reports and mapping of the area. Location and place need cartographic assistive science to interpret phenomena in studying the region.

The experience of students from observation activities has a function in building skills and thinking geography. Geography skills representation of the competencies expected activities by students in observation introduction landscape. Students as geographers will get new information as result of observation activities. The new information is knowledge for students which is useful for building a geographic thinking perspective.

Understanding of views about geography from more observational activities on scientific attention. The interpretation of the concept of landscapes and culture provides special strength in building spatial understanding for students. The findings Minca (2013), explained that the concept of landscape was at the core of scientific attention from generation to generation from geographers. The nature of geography with the power of phenomena and landscape provides knowledge in understanding the relationship of spatial theory and spatial analysis expressed from spatial systems. Conceptually understanding geographic phenomena can be easily understood as a whole according to the results of the reflection of the observation of the introduction of landscapes in the field. Understanding of natural and human relations is needed by geographers with survey activities and descriptions as an alternative in studying the potential of place and location (Boogaart, 2001).

Field observations affect the learning experience in particular student psychology in the field. Aspects of field experience will influence the development of cognitive, affective, and psychomotoric dimensions of students' thinking. The findings of Boyle, et al. (2007), aspects of field learning will have an impact on student affective development which includes attitudes, motivation, and feelings. The development of psychology of students provide to experience in geography studies both in theoretical learning in the classroom and in field applications through landscape recognition activities.

The spatial thinking of students has a relationship with the role of geography literacy improving for understanding the geographical concept of "sense of place". Geography literacy give students more insight into: analysis of location, place, relationship, activity, environment, and region. The dynamics of increasing geographic literacy in K-12 challenge students to deepen geographical knowledge. Thinking geographically provides a connection between humans and places of contact with events, cases and facts from geographic phenomena. The findings Hunter (2016), geography literacy is more effective in interacting and collaborating among students to broaden experiences in different environments. Geography literacy provides an overview of phenomena as problem solving skills and motivating students. The view of geographic literacy information cannot be transferred in proving the phenomena that is examined directly in a particular place and location. The findings of Johnston and Webber (2003), the emphasize landscape learning requires maps in interpreting physical and social aspects of relationships. Information obtained by students is useful in exploring the geographic literacy of both the theory and practice of landscapes with contextual skills (Lyold, 2006).

Geographical literacy skills of each individual student can be ascertained differently despite conducting joint observation activities in groups. The findings Ottati (2015), that exploration of learning can provide different experiences related to geography literacy, attitudes, and experiences according to K-12. Experience in representing the place obtained by students after conducting observation activities is to train research skills, trial, survey, critical thinking, scientific thinking, and thematic map making. The findings Comber (2017), geography literacy has a relationship between pedagogic, social skills, geography, and poverty to build a culture of shared learning in the world of education. Student experience from observation in the form of lifelong learning, pedagogic development, geography skills, research skills, critical and scientific thinking, and writing scientific reports and articles. This experience shows that observation activities generate new knowledge can shape thinking patterns for students as geographers in landscape recognition practice activities.

4.Conclussion

Geography literacy is easier to apply directly in the field with practical learning activities. Students as geographers experience lifelong experiences that are difficult to forget. The experience gained includes the implementation of concepts and principles in the field, measurement, trials, surveys, and research learning. The number of experiences spurred students to develop geographic ways of thinking represented or described from the location and place observed.

Student activities in the field require thinking, analysis, and applications geography especially in studying the region. These skills will build the pedagogical dimension of students in analyzing all aspects of literacy which include: phenomena, place, relationship, activities, environment, and region. All these aspects will give a description of the place in a particular area or what is known as "sense of place". Students as geographs are motivated to think critically and scientifically in solving problems in areas that are the target of the introduction of landscape recognition in Bromo Mountain, Probolinggo regency. The natural and human phenomena studied were realized in the form of regional mapping. The aim is to describe all the problems and phenomena that exist in the observation location of landscape recognition. The application of observation activities needs to be mentally supported by each student so that it is easy to describe and analyze the problems faced. Thus, geographic literacy and skills thinking geography of students are useful to interpretation places and locations that are realized through mapping the area. The result is an analysis of both natural and human potential found in the area of observation activities.

References

- Bogdan, R. And Biklen, S.K.(1998). *Qualitative Research for Education: An introduction to theories and methods*. Boston: Allyn and Bacon, Inc.
- Boogart II, Thomas A. (2001). The Powwer of Place: From Semiotics to Ethnogeography, Middle States Geographer, 2001, 34: 38-47.
- Boyle, A., Maguire, S., Martin, A., Milsom, C., Nash, R., Rawlinson, S., Turner, A., Wurthmann, S. & Conchie, S.(2007). Fieldwork is Good: The Student Perception and the Affective Domain, Journaal of Geography in Higher Education, 31(2), 299-317.
- Chappell, Adrian.(2007). Using Teaching Observations and Reflective Practice to Challenge Conventions and Conceptions of Teaching in Geography, Journal of Geography in Higher Education, 32(2), 257-268.
- Comber, Barbara. (2017). Literacy Geography and Pedagogy: Imagining Translocal Research Alliances for Educational Justice, Journal Literacy Research: Theory, Method, and Practice, Sagepub, University of South Australia, 66, 53-72.
- Cotton, Debby R.E., Stokes, Alison, & Cotton, Peter A.(2010). *Using Observational Methods to Research the Student Experience, Journal of Geography in Higher Education*, 34(3), 463-473.

- Denzin, Norman K. And Lincoln Yvonna S. (2008). *Strategies of Qualitative Inquiry*. California: Sage Publications, Inc.
- Fatchan, Achmad. (2015). *Methodology Research Qualitative of Ethnography and Ethnometodology Approaches for Social Sciences*. Yogyakarta: Ombak.
- Guertin, L., Stubbs, C., Millet, C., Lee, T., & Bodek, M.(2012). Enchancing Geographic and Digital Literacy with a Student Generated Course Portfolio in Google Earth, Journal of College Science Teaching, 42(2), 32-37.
- Hunter, Nancee.(2016). Assesing Sense of Place and Geo-literacy Indicatorc as Learning Outcomes of an International Teacher Professional Development Program, Dissertation, Porland State University.
- Johnston, B. And Webber, S. (2003). *Information Literacy in Higher Education: a review and case study, Studies in Higher Education*, 28 (3), 335-352.
- Levinson, S.C.(2003). Space in Language and Cognition: Explorations in Cognitive Disversity. New York: Cambridge University Press.
- Lloyd, Annemaree.(2006). *Information Literacy Landscapes: an emerging picture, Journal of Documentation*, 62 (5), 570-583.
- Miles, Matthew B, Huberman, A. Michael, and Saldana, Johnny. (2015). *Qualitative Data Analysis A Methods Sourcebook*. Thousand Oaks, CA: Sage Publications.
- Minca, Claudio.(2013). The Cultural Geographies of Landscape, Hungarian Geographical Bulletin 62(1), 47-62.
- National Research Council.(2005). *Learning to Think Spatially. GIS as a Support System in the K12 Curriculum*. Washington DC: National Research Council and National Academies Press.
- Ottati, Daniela F.(2015). Geographical Literacy, Attitudes, adn Experiences of Freshman Students: A Qualitative Study at Florida International University, Dissertation. Miami: Florida International University.
- Patton, M.Q.(2002). *Qualitative Research and Evaluation Methods (3rd ed.)*. Thousand Oasks CA: Sage Publications.
- Stokes, A. & Boyle, A.P.(2009). The Undergraduate Geoscience Fieldwork Experience: Influencing Factors and Implications for Learning, in: S.J. Whitmeyer, D.W. Mogk & E.J. Pyle (Eds) Field Geology Education-Historical Perspectives and Modern Approach, 461, Geological Society of America, 313-321.
- Turner, S., & Leydon, J.(2012). Improving Geography Literacy among First Year Undergraduate Students: Testing the Effectivess of Online Quizzes, Journal of Geography, 111(2), 54-66.