Assessment on Geography Field study at Universities in Indonesia

Aris Munandar a, 1, Enok Maryani b, Dede Rohmatb, Mamat Ruhimatb

¹ amunandar@unj.ac.id

Informasi artikel	ABSTRAK				
Sejarah artikel	Dalam Program Studi Geografi, studi lapangan adalah ciri khas				
Diterima :	pembelajaran luar ruang geografi. Kegiatan serupa dari studi lapangan				
Revisi :	: adalah penelitian lapangan, kunjungan lapangan, tamasya, dan lainr				
Dipublikasikan :	Implementasi studi lapangan pada universitas pencetak guru geografi				
Kata kunci:	memiliki kesamaan dalam penamaannya, definisi, tujuan, bahan studi,				
Kuliah lapangan	durasi kegiatan, lokasi studi lapangan, dan pemrosesan data. Perbedaan				
Penilaian	implementasi studi lapangan terletak pada rasio pengawas untuk siswa,				
Geografi	pendanaan, produk hasil, dan sistem penilaian. Universitas yang				
	melakukan studi lapangan harus meninjau kurikulum dalam				
implementasinya sehingga kredit, produk yang dinilai dan pro					
	memiliki kesamaan baik dalam kredit dan pengawas yang menilai.				
	ABSTRACT				
Keywords:	In Geography Study Program, fieldstudy is the hallmark of geography				
Field study	outdoor learning. The similar activities of fieldstudy are fieldwork,				
Assessment fieldtrip, outing, excursion, cooks tours and others. The implementation					
Geography	of fieldstudy in the universities of teacher training has the similarity in its				
	naming, its definition, its purpose, material of the study, the duration of				
	the activity, the location of the fieldstudy, and data processing. The				
	difference of the fieldstudy implementation lies on the ratio of supervisor				
	to students, funding, outcome product and assessment. Universities that				
	conduct the fieldstudy should review the curriculum in its				
	implementation so that the credit, the assessed product and process				
	have the similarity both in the credit and the supervisors who assess.				

Introduction

Concerning with fieldstudy, fieldwork (work in the field) is considered equal to fieldstudy. In geography the use of fieldwork often overlaps with fieldtrip, picnic, outing, excecursion (Lewis, 1968). Therefore, the term fieldwork is still debated, in this case, fieldstudy is defined as fieldwork that may include field teaching, field trips, field reseach or field camps (Dando & Wiedel 1971). This term (fieldwork) has five types: Short field excursion, Cook's Tour, Residential course, Study tour and Project work. Fieldtrip itself is a termimology referring to Intractional trip, school ecercusion, school journey (Krepel & Duvall, 1981, Marc Behrendt, Theresa Franklin 2014). The UK Quality Assurance Agency (QAA) defines *fieldwork* as "active

engagement with the external world' (QAA, 2002). Fieldwork can be defined as a learning activity that brings a direct experience in the real field, not like in the classroom setting (Neil lobo 2007, Lonergan and Andresen, 1988).

Geography without *fieldwork* is like science without experiment (Colin Marsh, 2008, p.311). *Field* is a geography laboratory where the landscape, site, people and their characterictics can be obtained directly and students can learn to collect the data and practice in the real environment (Rod Berges, 2000, p.120). The essence of fieldwork is the process of data collection and analysis about feature or phenomena on the spot (Stephen Pui-ming Yeuing, 2009, p. 51). Historically, *fieldwork* is a direct observation in the field or a teaching and

^a Department of Geography Education, Faculty of Social Science, Universitas Negeri Jakarta, Jakarta, Indonesia

^a Department of Geography Education, Faculty of PIPS, Universitas Pendidikan Indonesia, Bandung, Indonesia

learning process which orientates on: 1) the study of geography process compared to observation and description; 2) a research and a problem solving approach (Ian Fuller, 2006, ed Bradbeer., 1996).

Daniela Tilburry (1997, p.189) grouped geography fieldwork into three categories, that are outdor studies, outdor pursuits, personal and social development. Fieldwork can improve students' comprehension on theories specifically, transfer skills, encourage more active learning and relate theories to the real world (Max Hope, 2009, p.169). Fieldwork gives an opportunity to learn the real thing not the imitation in the class that improving the students' comprehension on the geography concept and appearance and developing their specific skills (HMI, 1992). When fieldstudy is conducted, there is an effective relationship between the emotion and the intensive value learning among learners'responses (Higgitt, 1996; Fuller et al., 2006; Boyle et al., 2007). Fieldwork is a structured experience of the students who study outside the classroom with the objects in the form of buildings, geology sites, museums or any places where students study. The trip can be done in a few hours/days/staying some weeks in order to be able to assess the students' learning outcomes (Rod Berges, 2000. Jenkin, 1977).

The implementation of fieldstudy needs a careful consideration in its operational techniques, determining location, theme and curriculum, preparing the implementation, staff supports, developing skills that will be done, analyzing the field data and the activity after *fieldstudy*. It also needs a careful estimation from the preparation stage, implementation and after *fieldstudy* (Ian Fuller, 2006, Kent, 1997).

Brief History

Based on the result of the study of Sri Mulyantari (2005), she concluded that *fieldstudy* in the form of *Kuliah Kerja Lapangan I* at Geography Department, Semarang State University can be as one of the contextual

learnings, but *the inquiry* (the finding component) and *the authentic assessment* (the real assessing component) still need to improve. *Fieldstudy* requires *assessment* procedures and conducive situation among staffs, participants, curriculum, institutions and others concerning with the fieldstudy (Ian Fuller, 2006, Gold et al, 1991). The use of a written test in the *fieldwork* is not appropriate (David Lambert Michael J Reiss, 2014, p. 16).

The result of tracer study on fieldstudy in some countries in Southeast Asia in the form of the fieldwork activity taken from Rod Gerber (2000, p. 104) shows any variation in implementation. The implementation fieldstudy in some universities at Southeast Asia is various from the type, time/duration, student location, group, site final product assessment. The various type of field activity such as fieldtrip, fieldwork, intensif residential also makes the other various element/variables.

Based on the table above, the fieldstudy conducted in the universities of teacher training in Indonesia (State University of Jakarta-UNJ, Indonesia Education University-UPI, State University of Yogyakarta-UNY and State University of Semarang-UNES) would identified and analyzed. This article aims at seeing the implementation of fieldstudy at four universities that have the same characteristic, the universities that graduate teachers located in Java Island, Indonesia. These universities should have the similarity in implementing fieldstudy because of their same result of learning outcomes. Process, product and assessment generated in the fieldstudy activity should have the same characteristics.

Contex And Review Literature Fieldstudy at universities

According to IAAM (2013, 214) *Fieldwork* has been done since the sixth level. The purpose of *fieldwork* in Geography describes a pattern and a relation in the land span. Fieldwork in Geography at University of New Zealand is less

prominent because it is intregated and inserted in teaching and learning compared to the implementation of *fieldwork* separately, such as an active learning that develops the affective domain dan the value improvement in *fieldwork* (Ian Fuller, 2006, Kern & Carpenter, 1984, 1986).

Geography Department at Universty of Singapura obliges the first semester students to take fieldwork focusing on physical and human geography. Students should make a profile of the result in measuring temperature and humidity related to the site variation and, at the same time, also make a report of spatial characteristics. This *fieldwork* is generally conducted by bus with the 50-250 participants, using any tools such as theodolite, compass, etc. The material of physical geography are rock formations, geomorphology, biogeography, and hydrology (Rod Gerber: 2000).

The result of tracer study on the implementation of *fieldstudy* at four universities are taken from the available documents. Some documents complete each other using the set indicators. The similarities and the differences are made to conclude toward the tendencies of any aspects in the implementation of fieldstudy. The table of the similarities and the differences of fieldstudy is as at table 1.

The four universities have the similarities and the differences in the fieldstudy activity. The similarity is in naming, that is there is a word 'field' at every outdoor activity. To differentatiate the implementation that is conducted three times, it is used the Roman alphabet I, II, III or showing material of the study: physic, human or intergrated study between physic and human. The definition of fieldstudy tends to be the same, the outdoor activity. The purpose is adjusted to the stages/levels of fieldstudy. The similarities were also found in material of the study, duration, location setting and data processing.

The differences in the implementation of fieldstudy are the ratio of the supervisor to students which is various between 1:15 and 1:20. This ratio is still acceptable according to the result of study from Daniel Tilbury (2001). The bigger ratio than 1:20 does not enable the lecturer to supervise in the field. The big ratio makes the lecturers unable to manage, control the activity in the field. The fieldstudy activity taking the group out of the class also needs the big funding. The funding for fieldstudy at the four universities are various. Two universities get the funding from the allocation of single tuition fee (UKT) per semester that is paid early in order not to take more money for three implementations of fieldstudy. Meanwhile, one university takes selffinancing for the fieldstudy although students have paid UKT because it does not cover the activity of fieldstudy; and the other one funds the fieldstudy by combining UKT and self-financing.

Method

This study used a descriptive method to see existing condition/to identify the implementation of fieldstudy exsisting in the four universities. Source of the data in this study are the research reports, documents of course outlines (Satuan Acara Perkuliahan-SAP), Academic Guidelines (Buku Pedoman Akdemik-BPA), System Operating Procedures (SOP) and other documents. The documents are analyzed based on the indicators: naming, the quantity, the objective, semester credits (SKS), the mechanism of implementation, material of the study, duration, site location, the ratio of the supervisor to students, funding, generated product/outcome and assessment. Analysis was conducted to find the similarities and the differences at the existing indicators, then concluded based on the tendencies. The next analysis was cross-tabulating on the implementation of fieldstudy concerning with its mechanism in the form of process and product of the fieldstudy and its assessment that are conducted.

Table 1. The similarities and the differences of fieldstudy at four universities

No	Aspects	UNY	UPI	UNJ	UNES	CONCLUSION	
1	Naming	PKL Dasar (Basic Fieldstudy)	PKL I (Fieldstudy I)	PKL fisik (Physical Fieldstudy)	KKL I (Fieldstudy I)	Tend to be the same	
		PKL Geografi ekonomi dan	PKL II (Fieldstudy II)	PKL Sosial Ekonomi dan	KKL II (Fieldstudy II)	There is a phrase 'field study' in	
		social (Fieldstudy in	PKL III (Fieldstudy III)	Pemetaan (Fieldstudy in social-	KKL III (Fieldstudy III)	naming the activity	
		economic and social		economy and mapping)			
		geography)		<i>PKL terpadu</i> (Integrated			
		PKL geografi terpadu		Fieldstudy)			
		(Integrated Fieldstudy in					
		Geography)					
2	Definition	Outdoorstudy Program	Outdoor learning	Outdoor learning	Supporting courses in	Tend to be the same	
					the classroom	There is an outdoor activity or	
						outdoor learning	
3	Quantity	3 times	3 times	3 times	3 times	Same	
4	Purpose	Adjusted to the level of	Having the analyzing skill	Adjusted to the level of	Applying concepts and	Tend to be the same	
		fieldstudy	and ability to utilize	fieldstudy	theories taken in the		
			environment as learning		classroom		
			sources				
5	Course Credit	1+1+1=3	0,5+0,5+1=2	1+1+2=4		Different	
	(System of					The smallest credit is UPI	
	Semester					In UNES the data is not found	
	Credit/SKS)						
6	Activity	pre-activity—activity—	pre-activity—activity—	pre-activity—activity—	preparation-	Same	
	mechanism	post-activity	post-activity	post-activity	implementation-		
					final stage		
7	Material of	Object of the study:	Process of the study	Object of the study:	Object of the study:	Tend to be the same	
	the study	Physical, human and		Physical, human and	Physical, human and		
		integrated		integrated	integrated		

8	Duration	4-5 days	4-5 days	4-5 days	4-5 days	Same
9	Setting	a. The conformity of	Location is prepared by the		Object is decided	Tend to be the same
	Location	location with theme	committee decideb by the	the lecturer team and the	together between the	
		b. The appearance of	lecturer board	committee.	lecturers and students	
		prominent sign				
		c. Reachable location				
		d. Safe to visit e. The cost to visit is				
		relatively cheap				
		f. The availability of				
		initial data of the				
		location				
10	Ratio of the	1:15	1:15	1:20	-	Different
	supervisor to					
	students					
11	11 Funding Single tuition (UKT) Self-financing		Self-financing	Single tuition (UKT)) and Self- Sin	Single tuition (UKT)	Tend to be various
				financing		
12	Product	Final report	Paper, article, leaflet, report	Report, standing banner	Report	Various
	generated					

12	A	Fieldstock of	- Comition offerti	Fieldstands of all the	- The Cont	Carra dia differenza lia di
13	Assessment	Fieldstudy of social	a. Cognitive, affective and	<i>Fieldstudy</i> of physical		Same, the differences lie on the
		economic geography	psychomotor	geography	concerning with	types of product and process
		a. Participation in	b. Presence in preparation	a. Presence in the course and	students'mastery on	and their weighting
		debriefing session (5%)	minimal 3 times	debriefing sessions = 10	<i>fieldstudy</i> (advisor	
		b. Team work (10%)	c. Presence in the field,	%	1).	
		c. Participation in the	Presence and expose	b. Participatory and	b. The second score	
		field (25%)	performance	participation	concerning with the	
		d. Making a report 15%)	d. Paper	= 60 %	group report of	
		e. Final exam (45%)	e. Article	c. Group report = 30 %	<i>fieldstudy</i> (advisor	
		Integrated <i>Fieldstudy</i>	f. Leaflet	Fieldstudy of <i>Sosekta</i> and	2),	
		a. Activity during the	g. Report	integrated geography	c. The third score	
		implementation, both		a. Implementation of <i>fieldstudy</i>	concerning with	
		at the debriefing		= 60 %	participation in	
		session and in the field		b. Presentation of <i>fieldstudy</i>	following	
		including:		=10 %	<i>fieldstudy</i> (advisor	
		participation,		c. Report of <i>fieldstudy</i> = 30 %	3)	
		discipline in		, i	,	
		teamwork,				
		participation in				
		scientific				
		discussion,				
		b. Final Report				
		Presentation				
		·				
1 /	Data	debriefing session (5%)	Observation interview	Observation intended	Observation interview	Sama
14	Data		Observation, interview,	Observation, interview,	Observation, interview,	Same
	collecting		questionnaire, documentary	questionnaire, documentary	questionnaire,	
	process		study	study	documentary study	

Table 2. Assessment of fieldstudy at four universities

No	Mechanism	Product and Process	Weighing			-
			UNY	UPI	UNJ	UNES
1	Pre-activity	Participation in	5 %	There are	10%	There is,
		debriefing session		3 times		Assessed by
						supervisor 1
		Team work	10%	-	-	
2	Activity	Participation in the	25 %	-	60%	There is,
		field				Assessed by
						supervisor 3
3.	Post-activity	Final Exam	45%	-	-	-
		Report	15%	42%	30%	There is,
						Assessed by
						supervisor 2
		Presentation of final	5 %	42%	-	-
		report				
		Leaflet	-	There is	-	-
		Article	-	-	-	-
		Paper	-	-	-	-
			·	16%	-	-
		Total	100	100	100	-

Result

Assesment of fieldstudy

Based on the table of the similarities and the differences of *fieldstudy* at four universities, the cross-tabulating concerning with the mechanism, product and assessment is done. The result of tabulating is as in Table 2.

All of the four universities have the similarities in the mechanism implementation of fieldstudy, fieldstudy is conducted three times. Each of fieldstudy conduct the same mechanism of implementation: pre-fieldstudy, fieldstudy (implementation) and post-fieldstudy. Although the mechanism is same, the product, the process, the weighing and the assessment are different.

The product generated in the fieldstudy can be a report, a leaflet, an article and/or a paper. The four universities oblige students to make a final report of the implementation of fieldstudy. The final report is a group report as one of the activities to prepare and train students in collecting, processing and analyzing field data. The group report trains the participants to write a final report scientifically for their final report at the end of their study. The different products generated are a paper, a leaflet an article (UPI). The product is important for the participants as an effort to publish in any event/exhibition/other scientific activities.

Assessing the attitude on the participation aspect at pre-fieldstudy and at fieldstudy in four universities is considered something important. This stage needs the participation of all participants in planning a fieldstudy, an intensive participation in direct learning in the field (Martin Kent, David D Gilbertson, Chris O Hunt, 1997). Both fieldstudy and fieldwork require the participation of the participants. Fieldwork can be planned carefully in the annual calender system. The careful planning which considers the course schedule can reduce any risks will happen concerning with permitting documents, the participants'safety and health, and others (Daniella Tilbury, 1997, p.199). The participation of the participants in fieldstudy is not only in planning, but also in implementing.

The difference in assessing lies on the obligatory for students to take a final exam that happen in UNY, while three other universities do not. The difference is also found in weighing the indicators. The percentage given by each university has its own reasons adjusted to the types of tasks/the process. Even in UNES, this university uses the different model of assessment. The three supervisors that at once as the assessors have a different task. The first supervisor assesses the pre-activity, the third supervisor assesses the activity in the field and the second supervisor assesses the post-activity.

Discussion

Based on the similarities and the differences in implementing fieldstudy, the universities are expected to discuss and analyze the curriculum as the reference in implementing fieldstudy (Kwok Chan Lai and Chi Chung Lam, 2013). In the curriculum, there is a lesson plan/teaching planning. According to Daniella Tilbury (1997, p.195), fieldwork planning begins by seeing Planning of Teaching and Learning Programme (Course Outline) in which there are objective, learning outcome, method, required facilities, time and activities. It needs a curriculum analysis or reconstruction to get the same comprehension of the differences in weighing credit, product and process, types of assessment and the supervisors who assess.

In addition, this analysis is conducted to see the activities in feldstudy. In general, the outdoor activity such as fieldstudy or fieldwork has two activities: observation and participation (Martin Kent, David D Gilbertson, Chris O Hunt, 1997).

Dealing with two general activities above, types of assessment also refer to observation and participation. Based on the analysis result of types of assessment, the writer suggests three assessments: project, performance and portfolio. Portfolio is recommended in the activity of fieldstudy (David Lambert Michael J Reiss, 2014). First, portfolio in the activity of fieldstudy can be

a leaflet, a standing banner or an article. Second, performance assessment—assessing participation between partcipants and their supervisor in making preparation, doing project, encountering a difficulty in the field such as health, etc. Therofore, alternative assessment (Lonergan & Andersen, 1988; Kneale, 1996: Mc Ewen & Harris, 1996) such as oral presentation is also suggested as a type of assessment. Assessing oral presentation uses performance assessment. Third, a final report project that is done in group although group working is very controversial and always debatable (Habeswa et el 1992, Martin Kent, David D Gilbertson, Chris O Hunt, 1997).

Conclusion

A review is needed in weighing each indicator generated from the fieldstudy. Weighing can be seen from the similarity in the mechanism and the product. Generally, the the conducted assessment is in the form of product and process. The four universities can formulate together the same products beside the final report; whether they needs an article, a paper, a leaflet, etc. If these products are required, the organizers, in this case the university, can give an appropriate weighing for the quantity of needed product(s).

A review of the supervisors who assess is also needed. Each of the fieldstudy is conducted by two clases which the number of participants are various among 90-100. It needs 4-6 supervisors. The supervisors have a task to assess all of the processes and the generated products in the activities of fieldstudy. Each supervisor will assess 15-20 participants from the beginning to the end of fieldstudy. The supervisor can use the phenomenon approach. This approach can be conducted to synchronize the concept of fieldstudy implementation between students and their supervisor so that the purpose of fieldstudy can be obtained (Alison Stokes, Kristy Magnier, Ruth Weaver, 2011 hlm 138)

These reviews are needed because as the institutions that graduate teacher candidates, the

four universities should have the similarities in the process and the products required by the stakeholders. The big difference in the process and product the can provide differenceoutcome. A curriculum reconstruction can be used as the initial step to determine procedure, material of the study, process and product and assessment that fieldstudy has an appropriate assessment.

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