Place attachment of the public space in Krueng Cunda

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Abstract. Attachment to place will have an impact on the design a city, especially the public space. Part of important from place attachment can the great benefit in from a city. One of the result is influence to quality of life from urban society. That is not only, but forming of identity a city, dependence and sense of place. That is all measurable when the people have activity to place. Place attachment is connection human to place involve a psychological process. As for the issue in reservoir area and the river of Krueng Cunda. The main purpose in this study is find interaction individuals or urban society to public space. This study have use mixed method are combination with quantitave and qualitative. The quantitative method make use of questionnaires and qualitative with observations. The results of this study indicate that psychological process is more dominant than attachment to the place or human. At finally is this research show attachment to the psychological process feel better than to community because can fulfill a sense, comfortable, safety, lifestyle and goal needs of life to the public space.

1. Introduction
Place attachment is substantial role in realizing the success of designing a city with public space as an element. The growing that is inseparable from the life processes of society and individuals so that will recognized with meaning and function to the place. Unlike the case with the psychological process can be felt with the role of emotions, connections and behavior of urban society. Eventually the place has characteristics that are suitable with both physical and social features. Place attachment formed in the public space will determine the quality of life for community city. The impact of place attachment will affect both mental health and community psychology in the city. The development of public space in metropolis other than in Indonesia is already the most important part of urban design as elements.

In essence, the public space is a capable of giving, responding and providing for all general activities. It was filled with physical, social and cultural characteristics can be understood with the meaning of the place so that the realization of the identity a city. At early, headway that are tends to growth naturally without urban design. Forever the city’s need for the presence of communal area is an important part of urban design, not only that have appeal and identity of the city because it is support by the physical, social and cultural places. The success of the city lies not only in the design of the public sphere but the continuous interaction between space and society in an optimally all time to form attachment to the place. Place attachment is part of the interaction between humans and places that involve emotion [1]. In essence, emotions have a dizzying role in shaping attachment to place [29].

Attachment does not occur by itself but need the existence of individual, psychological process and region [16]. The formulation of problems studied is attachment to place in the reservoir area and Krueng Cunda River boat for individuals and society Lhokseumawe City.
The objective study was found attachment in the reservoir and Krueng Cunda area for the community people. Specifically, this study have two product: 1. Theories as guideline of design public space; 2. The practice will be developed to improve facilities and fullfilled all the need. The benefit on this paper such as: the development of activity attachment and behavior as part of from human lifestyle; capable of contribute to establishes the identity of the town; able to construct is meaning of place, its physical and social views; improve the quality theirs life.

This study in Krueng Cunda area, Lhokseumawe city, Aceh Province. Geographically, the reservoirs and Krueng Cunda are between 04°54'- 05°18’ North Latitude and 96°20'-97°21’ East Longitude. Administratively, the reservoir area and Krueng Cunda have limits as follows: the north is border by Pusong, Banda Sakti Sub-district; the southern side is Cunda, Muara Dua District; the west is Cunda, Muara Dua District and the East by the Malaka Strait (figure 1).

The research area is the strategic location of Lho kseumawe city. The area of Krueng Cunda is a naturally occurring space as is the case with artificially formed reservoirs (figure 2). Not only that Krueng Cunda has a natural uniqueness. Unique a river that is a fusion with the ocean off and the main route that divides on spot are. So that is form a small island.

The Krueng Cunda and Reservoir have landscape feature and urban society with unique characteristic become interest view for area. The uniqueness of landscape have waters from the sea. So it has a natural feature that can change when certain. The landscape can influence activity in this space. This is evident from social views at the site. As for views of these social, is jogging, fishing, anglers, fishing fish, looking for oysters, relax, selling, walking and others (see figures 3 and 4). Social-culture is specific element, when its indicated unique characters of settlement [1]. The culture in their environment could be give a meaning, so different in each the place could be given a unique itself.
Attachment to the place will be influenced by the comfort to atmosphere of the place and then comfort when activities. This region support by economic potentials. In fact, urban communities have a good place dependence on livelihoods, lifestyles and hobbies (see figure 4).

Place attachment is the relationship between human to space and both to involve of psychology [16]. Not inseparable from the concept, the development of attachment where Leila Scannell and Robert Gifford [16] mentioned that attachment to the place is a series of two things: between the individual and the meaning of the environment. The attachment is basis of emotion with specific physical location and in particular is the individual’s interaction with that space [15]. The identity of place will be built significantly not only of physical elements but also non-physical [6]. Place attachment dimension are human beings both as individuals and communities, psychological processes and area as the most dominant element [18]. Certainly, the growth that is connection to relationship between urban society with characteristic a location, not only there is comfort and security the area and then that is leading attribute in social interaction to manifest itself [15]. The sense of place is part of the belief in place, emotion and behavior of the place [3].
2. Research’s Methodology

In this study is descriptive the research. So, this research used mix-method with the combination among quantitative and qualitative methods. A quantitative method conducted with doing used distribute questionnaires to the respondent as user in area. While a qualitative were doing with observations for activity and interviews society. No like that, the method doing with observation for landscape views on spot area. This study was doing since 2015 to 2016. The respondent divided into two category other hand regular and mobile as users in this paper. Questionnaires were distributed for 150 users in spot the place. When the people that performs to activity continuously on research area as namely regular user but different with mobile users not doing perform constantly. In basically, both the questionners are either permanent users or no, still have different characteristics. The character of the sample is composed of age, occupation, culture, activities to place.

Collecting data using by the questioner. Therefore, method in analyzing data is doing with triangulation method. Then, all data will be analyzed with used SPSS. There are many variable, only one of function variable working with analyzed different in frequency. While others, its will be analyzed with percentage on value from positive responses; actual value and correlation for all variable. As for the variable is meaning; emotion; connection of connective; behaviour; physical view and social feature.

3. Result and Discussion

In basically, this result will be devided of dimension in place attachment. All the result data will analyzed and following of three dimensions: 1) Individual attachment; 2) Psychological Attachment; 3) Place Attachment. Individual attachment used meaning and function variables. From the first analyzing of data. Individual connection on place will be calculate using two variables; meaning and function of variable. Therefore psychologically process will evaluated with three the variables; emotion, connection and behaviour in this research area. The last dimension is attachment place, will analyzed with physical and non-physical view. In finding the attachment of the meaning of place to the community, then use the following indicators: 1) Experience; 2) Place perception; 3) Land of livelihood; 4) Memory; 5) Pattern of life; 6) Quality of life. While the functional attachment to clarify the function of places for the people of Lhokseumawe City.

3.1. Individual attachment

The first variable is individual attachment. This paper will be analyzed with using two the variable, such as: meaning of place and function. Meaning attachment is something of familiar a place, when each the people have perception or definition in environment for pattern of life the society. This variable may be looking in this table. Then result in study is respon by the other society for each indicators (table 2).
Table 1. Attachment of meaning.

| Variable | Indicator | Response | Percentage Actual | Correlation |
|----------|-----------|----------|-------------------|-------------|
| Experience on place | 81 | 54 | Perception of image | The impact of activities on improving the quality of life |
| Perception of image | 103 | 68 | Experience on place | - |
| Meaning | Place as an economic land | 55 | 36 | - The impact of activities |
| Memory to the place | 49 | 32 | - | - |
| The impact of activities on improving the quality of life | 100 | 66 | The impact of activities | |
| | 121 | 80 | Experience | Life of pattern |

Total percentage 56.60% 56.60%

Based on table 2 and graph 1 showed that meaning is not something a significant by respondents, looking with low value on variable. Urban society can indicated by way to know with function of place for our live. In fact, this meaning might be defined when the each peoples activities in place and then impact for quality our live. In graphs 1 and 2, the other indicators that play an active role in shaping the attachment of meaning include: experience, place perception, lifestyle and effects. It is also reinforced by the correlation that exists between indicators so that the attachment of meaning is formed in the public space in Krueng Cunda area. The results of the study not explain that the attachment of meaning have the people. This variable is found but will the attachment is only medium value, so that the identity of the place also does not become the dominant aspect in the place attachment.

Graph 1. Attachment of meaning.

The individual attachments used in the following describe the functional attachment of the study area. Based on table 3 shows attachment of place emphasizes the activities favored by the Lhokseumawe society is to relax with a choice of priority objects where visiting. This is done because the perception
of place based on the function of the place as a place with a variety of activities. Frequency and intensity of the community routinely has a duration of time ranging from 1-2 hours to the atmosphere of visiting is the afternoon. The functional attachment affirms that where there is a pattern of life and hobbies. Of course this is inseparable from the perceptions, experiences, impacts derived from the activities undertaken. In the end, it was found that the function of the place although on a medium scale. However, individual attachments continue to run and repeatedly and encourage people to stay and working to area.

| Function | User activity | Indicator | Relax | Selection |
|----------|---------------|-----------|-------|-----------|
|          | This object as priority places to visit | Yes |
|          | Perception of image by function | Place with variety of activities |
|          | Visibility frequency and intensity | Yesterday |
|          | Duration of activity | 1-2 hours |
|          | Atmosphere of interest | Afternoon |

3.2. Psychological attachment

The two aspect in this attachment is psychological process. The aspect have three variables: emotion, connection of connective and behaviour. Respect the society is looking from affective may be definition the emotion peoples. The people will be have sense of place and strong on feeling to location. The impact from attachment is linkage pattern and a part of relation will involved the difference emotion to each user in specifiks environment. Therefore, will be observe used this variable with several indicators as follow in table.

| Emotion | Variable | Indicator | Response | Percentage | Correlation |
|---------|----------|-----------|----------|------------|-------------|
|         | Unique landscapes | 91 | 74 | Comfort the aliveness of life |
|         | Comfort Place | 128 | 53 | Unique landscapes |
|         | Addressing the aliveness of life | 148 | 85 | Unique landscapes |
|         | Proximity Place | 132 | 86 | - |
|         | Total percentage | 83% | 82% |

This result in table 4 and graph 2 explained that the each people have better the felling as form affective on site. Althouht, the each indicator might be have differently respon by individual and urban society. Surely, the variable as one of important aspect in paper because might be involved of all sense, feeling and then situation in each individual or community. Proximity place is indicator has nice a sense the respon society. Therefore, community can be feel is not only comfort, but familiar on space would be influenced of sense or feeling in each people. One of reason for stay to visiting in location cause the place can be give a quite in each individuals and other hands: unique landscape (natural views), atmosphere of comfort area, and then the variable is excellent rating category. This variable have better emotional attachment of society, its able to form attachment a region. Emotionally people
are encouraged to keep visiting; to meet the community; a part of needs in life; given to new life patterns and hobbies. Finally, the society have linkage of sense is strong comfortable for our life.

**Graph 2. Emotion Attachment.**

Not only that, the emotions of the community are encouraged to visit because of the uniqueness of water from Krueng Cunda and reservoirs so that the region is able to overcome the fatigue of life after a day of living activities. The uniqueness of the landscape that blends with the sea that at any time is able to change in accordance with the water is not only utilized by fishermen, oyster seekers and anglers and fish net, so as to affect the emotions when activity continuously. The pleasant emotion of from activities be doing by the people of Lhokseumawe City. Then more is relaxation as choice of priority activity when be visiting, although there are still have variation the other activities. One of impact between emotion of individual with the krueng Cunda. The end result can strengthen the emotional attachment with the discovery of correlation between indicators of these variables. The next variable in psychological attachment is connective the other community. That variables using each indicators: memory; experience and place meaning (table 5).

**Table 4. Connection coneqtive.**

| Variable | Indicator       | Response | Percentage Actual | Correlation        |
|----------|-----------------|----------|-------------------|--------------------|
| Connective | Memory        | 104      | 76                | Experience        |
|          | Experience     | 96       | 73                | Meaning of place  |
|          | Place meaning  | 98       | 79                | -                 |
|          | Total percentage | 66 %    | 76 %             |                    |

The later, the two variable is one of signifikant in psychology process. Place could be connected to psychology of human or society. To connect process the psychology, so need some indicators as follows; memory, experience and place meaning. The results on this table explained that was found and related to attachment form by all indicators with enough rating in category. Individual psychology is able to relation pattern, so meaningful place for life the people. Not only, that the human could be indicated with interaction of place with natural environment. The location is one of part from the development constantly as follow in specific area. Therefore, place meaning could be described with diversity of charaterictic in each for the place. Differences are capable of involving some indicators.
The society would be knowed a place with psychology process and that result a understanding or meaning in each the environment kept distinct.

Place meaning have indicator better than of memory as connected in the attachment, interaction between individuals and place it is as experience by respondent. While, memory of area that is join to relationship in theirs the environment. And then, with meaning and memory. In the end, all the visitor have experience encouraged the community to visit. In the end the correlation is able to assert indicators that are able to synergize with several indicators in establishing attachment to behavior (table 5 and graph 3).

Graph 3. Attachment of cognitive.

The last psychological aspect in study is behavioral. The laters, variables have observed in this indicators: behaviour according to the purpose of visiting; culture influences activities; environmental awareness; behaviour as need life (Table 6).

Table 5. Attachment of behaviour.

| Variable          | Indicator                              | Response | Percentage Actual | Correlation                              |
|-------------------|----------------------------------------|----------|-------------------|------------------------------------------|
| Behavior          | Behavior according to purpose of visiting | 118      | 78                | Behavior according to purpose of visiting |
|                   | Culture affects activities              | 131      | 82                | Behavior according to purpose of visiting |
|                   | Environmental awareness                 | 120      | 82                | Culture affects activities               |
|                   | Behavior as needed life                 | 135      | 86                | Culture affects activities               |
| Total percentase  |                                        | 84       | 82.5%             |                                          |

Based on table 6 and graph 4 suggests the results of research related to the variable attachment behavior in the people of Lhokseumawe City with excellent rating category. This strengthens the attachment to the place formed from the attachment of behavior between the people of Lhokseumawe.
City and the Krueng Cunda area. The results also show a synergistic correlation between community behavior is part of the purpose of visiting and the impact on the culture of the community. In essence, the attachment of behavior becomes part of the routine of society continuously in the area of Krueng Cunda. Which place to meet the necessities of the life. Correlations are also formed on several indicators on behavioral variables thus reinforcing that behavioral attachments are formed from some of these indicators.

Graph 4. Attachment of behaviour.

![Graph 4](attachment.png)

Basically, in every the indicators having correlation is fine. The community behavior as need their life. In fact, there is better value from respond the society. No like that, but will be correlation with purpose on visiting and impact from activity the culture. Therefore, behavior is a description of characteristic the culture that is owned by each the human.

3.3. Attachment to place
The attachment of the place studied in this study then use two variables, namely: the attachment of physical features, the attachment of social features. The attachment of physical features to the people of Lhokseumawe City was tested using several indicators as follows (table 7).
Table 6. Physical feature.

| Variable  | Indicator                          | Response | Percentage Actual | Correlation                              |
|-----------|------------------------------------|----------|-------------------|------------------------------------------|
|           | The uniqueness of nature and the   | 126      | 80                | Access to easy                           |
| Physical  | diversity of activities            |          |                   | Patterns of life and hobbies              | Comfortable atmosphere |
| Feature   |                                    |          |                   |                                          |                          |
|           | Interesting place                  | 136      | 82                | Interesting place                        |                          |
|           | Access to easy                     |          |                   | Patterns of life and hobbies              | Comfortable atmosphere   |
|           | The uniqueness of nature and the   | 116      | 80                | Access to easy                           |                          |
|           | diversity of activities            |          |                   | Strategic location                       | Patterns of life and hobbies | Comfortable atmosphere |
|           |                                     |          |                   |                                          |                          |
|           | Strategic location                 | 141      | 88                | Access to easy                           | The uniqueness of        |
|           |                                     |          |                   |                                          | diversity of activities  | Patterns of life and hobbies | Comfortable atmosphere |
|           | Patterns of life and hobbies        | 128      | 86                | Access to easy                           | The uniqueness of        |
|           |                                     |          |                   |                                          | diversity of activities  | Patterns of life and hobbies | Comfortable atmosphere |
|           | Comfortable atmosphere              | 92       | 75                | Access to easy                           | The uniqueness of        |
|           |                                     |          |                   |                                          | diversity of activities  | Strategic location        | Patterns of life and hobbies |
| Total the | percentage                          | 82%      | 82%               |                                          |                           |                          |
The last for on this paper is attachment place. As shown in table 7 and graph 5, respondent indicated each of the seven indicators with total percentage on variable is 82% and might be category as better attachment. Although, there is considerable variation in how these respondent array their attachment place. This paper, described that responded from each the indiqator have different of value. Then, there is variable support for attachment itself place, such as: strategic location (88%); pattern of life and hobbies (86%); access to easy (82%); unique and interesting place (80%) and comfortable atmosphere (75%). The last time in research, so that showed appeal of view with uniqueness place is combination the water between the sea and the Krueng Cunda; atmosphere of the breezy wind; a quiet space and comfortable place will be supported by natural environment and safety. It is rarely encountered today. Therefore, characteristic space as natural landscape and this support with extence area as strategic location in center of Lhokseumawe City. In case, so give access to location is easy. capacity convince the community to keep doing the activity.

Therefore, so this paper described that corelation to each the variable is main aspect in attachment the place. One of indiqator is interesting place have correlation with access to easy, unique environment dan various activities, lifestyle and hobbies, comfortable atmosphere. This attachment can be find, if the human have interest to place and need the support by correlation in each the indiqator. Then interesting place have percentage actual is fine in the attachment. Strategic location is main indiqator in physically variable, cause there is have better relation in this research. In forming the attachment really need support, its others; unique environment dan various activities, lifestyle and hobbies and comfortable atmosphere.

Graph 5. Physical feature.

| Physical Feature | Response | % Actual |
|------------------|----------|----------|
| Interesting place| 126      | 80       |
| Access to easy   | 136      | 82       |
| The uniqueness   | 116      | 80       |
| of nature and    | 141      | 88       |
| the diversity    | 128      | 86       |
| of activities    | 92       |          |

In condition, interesting to physical element could be indicated by respondent. The place have some of function. The region would be to used as interaction of public space for all needs in lifestyle and hobby from for the people; variation from the environment impact to variation of activities; strategic of location; lifestyle and hobbies; comfortable with atmosphere. Thus strengthening the formation of attachment to the place. The diversity of activities encourages the community to keep visiting and activities. Shown to interest on area impact of each the activities, such as: relax, jogging, exercising, fish trowel, fishing fish, looking for oysters and selling. The later, there is attachment described physical feature as dominant variable and can be support on their place. In description by the people of Lhokseumawe City very well. Another thing is reinforced and correlation by indiqator. The finish, there is sosial feature as significant variable in attachment concept. Place will be indiqate with supply a space give and open public for all the activities from society in Lhokseumawe City. The next, this study found the attachment of social features to the rating category is excellent. The variables formed on variable and there are able to correlate between each the indicators as follows.
Table 7. Social feature.

| Variable | Indicator                        | Response | Percent age | Correlation                      |
|----------|----------------------------------|----------|-------------|----------------------------------|
|          | Ethnic Diversity                 |          |             |                                  |
|          | Ethnicity and social level       | 117      | 79          | Social interaction               |
|          | Social interaction               | 133      | 81          |                                  |
|          | Safe Environment                 | 118      | 79          | Social interaction               |
|          | Proud of the place               | 90       | 74          |                                  |
|          | Culture of society               | 137      | 87          |                                  |
|          | Level of environmental awareness | 117      | 82          | Social interaction               |
|          | Total percentage                 |          | 79%         | 80%                              |

The results of this study explain that social is one of variable and becoming the factor in attachment to the place for human. The development of period was not able to change the culture and social interaction in the research area. Characteristic social and culture the society is unique of spatial. Unique of the environment is need the support by a place, where there are give space for all activity is sustainable with all need the human. Difference for activity is becoming one of reason the society to visit on place. Therefore, in forming the attachment each the variable will be correlated, so result is correlation. This correlation is social interaction as important indicator. In fact, that there is need the support from others the indicator, such as: ethnic diversity and social level, safe environment and level of environmental awareness. Culture of society have better value from respond the society, but have not correlation with others the indicator. Its indicated that characteristic the society is a need and a reflection of behavior and action that is lifestyle inseparable with their life. This indicator would be result various the culture in each the place.

Graph 6. Social feature.
In addition, social features can enhance growth. Surely, its a carrying capacity of nature in continue to be maintained. There is shows that the people have awareness and care in protecting for interaction on their environment. Of course, social activity is pattern of livelihood the urban community such as meeting location to all activities for fulfill need, lifestyle and hobbies is always time and others. Place is confident for all culture from others humans and its becoming one of factor the form a diversity of social activities. Safety area can give the comfort for human, so impact to sense of enjoying in the place. The development of social community be constantly maintain in their life such as fishermen, either as a hobby but a livelihood pattern. Variation on feature is significant variable from interaction the society, so need to saving the atmosphere is becoming identity of place in every time. The last, the human have understanding for social feature can be have place meaning in their life.

4. Conclusions
This result was observe from this study in Krueng Cunda and the Reservoir area for the human in Lhokseumawe of City will be distinguished by the following dimensions of attachment: Individual attachment; Psychological Attachments; Place Attachment.

Table 8. Recapitulation of site attachment research results.

| Variable       | Indicator                                                                 | Response | Percentage Actual | Category   |
|----------------|---------------------------------------------------------------------------|----------|-------------------|------------|
| Meaning        | Perception of Place, Experience, Pattern of Life and Impact of life pattern | 56 %     | 56 %              | Medium     |
| Emotion        | Leisure Places, Unique landscapes, Overcoming aliveness of life            | 83 %     | 82 %              | Very Good  |
| Cognitive      | Experience of Place, Meaning of place                                      | 66 %     | 76 %              | Good       |
| Behaviour      | Culture affects activities, Behavior according to the needs of life,       | 84 %     | 82 %              | Very Good  |
|                | Environmental awareness, Behavior according to the purpose of visiting     |          |                   |            |
|                | Easy Access, Uniqueness of nature and diversity of activities, Strategic   |          |                   |            |
|                | location, Pattern of life and hobbies, Comfy Atmosphere                    |          |                   |            |
| Physical Feature | Easy Access, Uniqueness of nature and diversity of activities, Strategic | 82 %     | 82 %              | Very Good  |
| Feature        | location, Pattern of life and hobbies, Comfy Atmosphere                    |          |                   |            |
| Social Feature | Easy Access, Uniqueness of nature and diversity of activities, Strategic   | 79 %     | 80 %              | Very Good  |
|                | location, Pattern of life and hobbies, Comfy Atmosphere                    |          |                   |            |

Basically, there was shown of respons from each the society to variable and percentage of actual the value for six variables. Nothing also, correlations could be explain that found a related from each the indicator in others the variable. Certainly, each the individuals will be definated for space appropriate with social and culture in others the person; every need theirs life (meaning and function); unique of environment (physical-non physical view); comprehensively would be involved the psychology (emotion, cognitive, behaviour). The identity of meaning will be difficult in each the human, but acordance with paraqdim, the culture, necessaries, experience, landscape the environment and emotion. However ever could be better the interaction between the psychological process with the community in the places and then its indicated as good attachment in place. There is looking for related the interaction from emotional variables with behavior on the spot place, so that form the activity itself continuously on spot research. This reinforces that attachment of the place is not only formed by a sense of place but also supported the behavior of the people in the area. When it is a place
capable with psychological the society, so could be construct of a relationship and then is better attachment in a place.

The results of subsequent research investigated by using the physical attachment feature variable and social features form a good interaction between the city so that identity will be formed with physical features and social features well for the community. Not only that, there is also dependence in specific place to the community from the attachment of physical features and social features. However, physical features are perceived to be more dominant in terms of attachment to place than to social features. The finish, attachment is characteristic in specific environment. There is have interesting and unique itself for the place and surely could be influence of function the space as basic activities the society and then there is pattern of their life so can be improving in next time. Identity of area could be respond with behavior and unique landscape as relationship between psychology and place variable. While characteristic the society is shown as identity of environment and it is a part of reflection from social-culture in theirs life.

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