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**Bangkok 2025**

**21st International Geography Olympiad  
28th July 2025 – Fieldwork Exercise 1**

**MORNING – Ko Kret,  
Nonthaburi Province**

**Student Number**

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# Fieldwork Exercise 1 (FWE 1)

## Main instructions:

Fieldwork Exercise 1 consists of two tasks.

Task 1: Observe and Sketch the Image (10 marks).

Time to complete the task: 20 minutes

Task 2: Observe and Collect Data on Human Activities and Vegetation (20 marks).

Time to complete the task: 2 hours (approximately 1 hour per route)

The locations for FWE 1 are on Map 1-1.

Students will be assigned to 4 groups by student numbers:

- Group 1 (student number 21XX01)
- Group 2 (student number 21XX02)
- Group 3 (student number 21XX03)
- Group 4 (student number 21XX04).

The details of student and task management during FWE 1 are as follows:

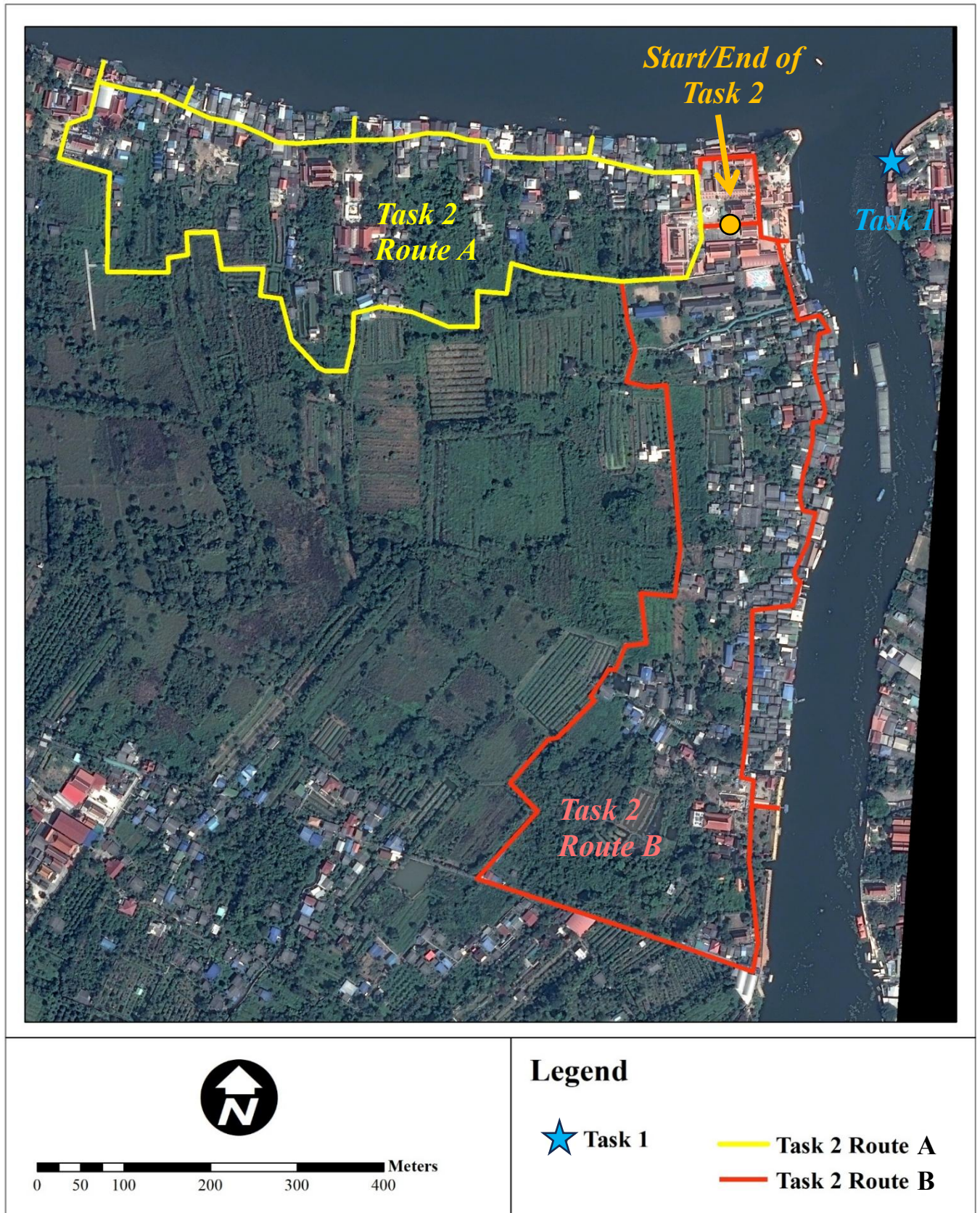
### ***Group 1, 2***

Task 1:	8.30–8.50				
Task 2:	Route A:	9.00–10.00 (Group 1)		10.00–11.00 (Group 2)	
	Route B:	9.00–10.00 (Group 2)		10.00–11.00 (Group 1)	

### ***Group 3, 4***

Task 1:	10.40–11.00				
Task 2:	Route A:	8.30–9.30 (Group 3)		9.30–10.30 (Group 4)	
	Route B:	9.30–10.30 (Group 4)		9.30–10.30 (Group 3)	

Students are expected to be ready on the buses to leave the site no later than 11.30.



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## Task 1: Observe and Sketch the Image (10 marks)

### Instruction

**Job type:** Answer the questions.

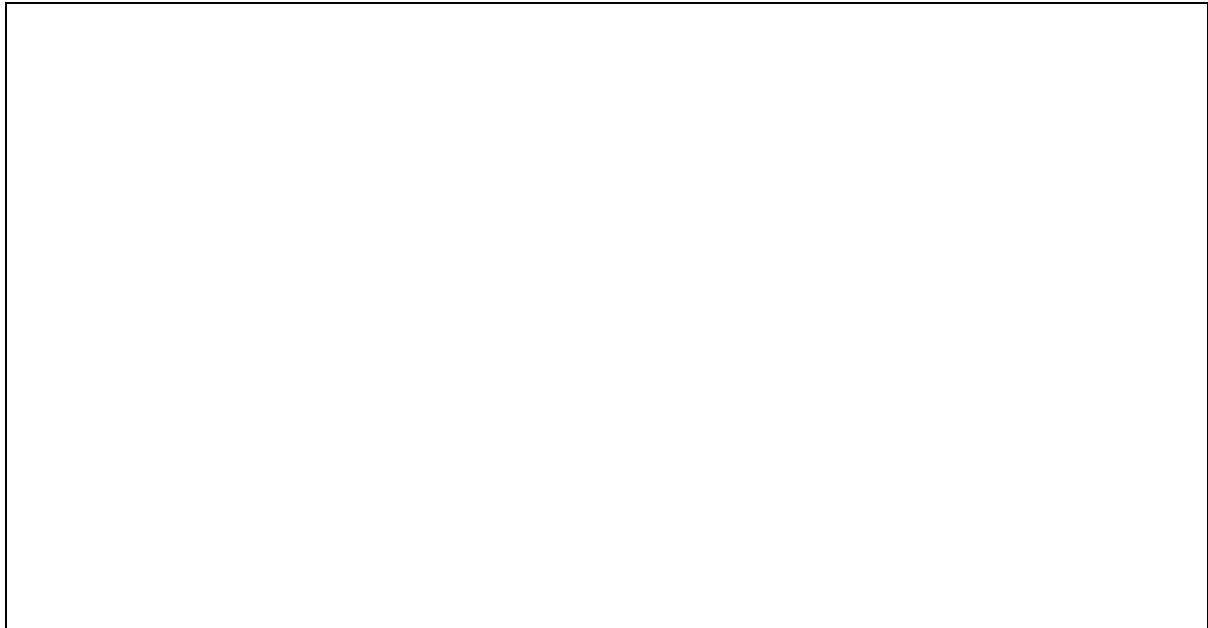
**Location:** Task 1 on Map 1-1.

**Duration:** The maximum time for this task is 20 minutes.

After finishing the exercise, you must hand in this paper.

### Questions:

1. Produce and annotate a sketch of this location. (5 marks)



2. Draw the river flow direction on the sketch. (1 mark)

3. Explain the factors that determine the river flow direction. (1 mark)

\_\_\_\_\_

4. Estimate the velocity of the river: \_\_\_\_\_ m/s. (1 mark)

5. Estimate the angle at which the pagoda is tilted from vertical. (1 mark)

\_\_\_\_\_

6. What is the concrete structure found at this site called? What is its main purpose? (1 mark)

\_\_\_\_\_

\_\_\_\_\_

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## **Task 2: Observe and Collect Data on Human Activities and Vegetation**

**(20 marks)**

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### **Instruction**

- Job type:** Observe and Record Human Activities and Vegetation Data on Two Walking/Cycling Routes.
- Location:** Ko Kret, Nonthaburi Province (Map 1-1)
- Starting and Ending Point:** Wat Poramai Yikawat.
- Task management:** The survey and data collection will be conducted along two designated routes. Students who start with Task 2 will be divided into two groups. Each group will complete Task 2 along one designated route. After finishing the first route, both groups will meet at the starting point and switch to the other route to complete the same tasks. Students are not allowed to talk to each other.
- Duration:** The maximum time allotted for the fieldwork is 2.0 hours, one hour for each designated route. Upon completion of all assigned tasks, participants must arrive at the designated endpoint (Map 1-1) no later than 15 mins before time expires and submit all examination materials. Any submissions made after that will be recorded as late, and therefore subject to a mark penalty.
- Remark:**
- 1) Upon completion at each fieldwork site, all worksheets and maps will be collected once the group has reported in. Please do not leave the final checkpoint until all worksheets and maps have been submitted.
  - 2) Students are required to proceed to the field site in their assigned groups, as indicated on the official name list. However, each student must complete all assigned tasks independently. All group members are responsible for ensuring that every area within the designated fieldwork site is thoroughly covered and that individual observations are accurately recorded on their personal worksheets.
  - 3) Map 1-2 (Size A3) for Task 2 in FWE 1 will be given back to students to assist in completing the tasks in FWE 2.



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1. Observe and record the following data for route A and route B on Map 1-2:
  - Major economic activities, locations of important landmarks, tourist attractions and facilities, e.g. temples (or “Wat”, in Thai), large pagodas, markets, restrooms, services, piers, and waste management.
  - Green spaces along the study routes. Indicate whether the green spaces are natural vegetation or agricultural fields (orchard) (Figure 1). In natural vegetation areas, locate and draw the boundaries of local plant clusters -- 1) Lotus and 2) Nor Kala (a type of ginger plant used in the local cuisine) (Figure 2).

Data from this task will be used in the following questions and in FWE 2.



Natural Vegetation



Agricultural Fields

**Figure 1: Natural vegetation and agricultural fields in Ko Kret**

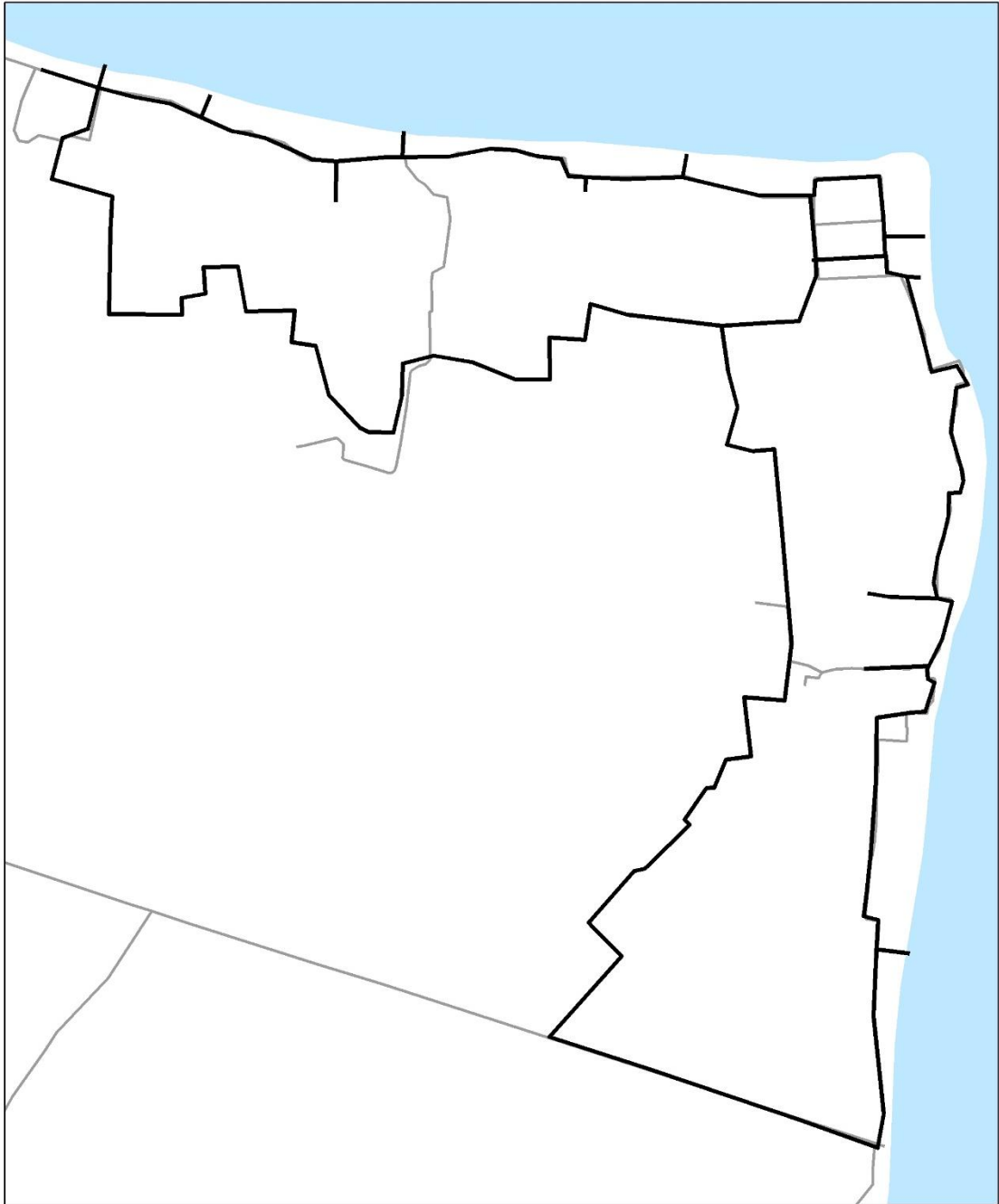


Lotus



Nor Kala

**Figure 2: Local plants in Ko Kret**



**Map 1-2: Field observations (Size A3)**

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2. Describe the spatial pattern of natural vegetation areas (including two local vegetation – Lotus and Nor Kala), and agricultural fields in Table 1-1. (4 marks)

**Table 1-1: Spatial pattern of Natural vegetation and Agricultural Fields.**

<b>Type of green spaces</b>	<b>Description of spatial pattern</b>
Natural vegetation	
Agriculture fields (orchard)	



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3. Identify 6 tourist facilities and indicate economic activities related to tourists along BOTH routes. (6 marks)

3.1 Tourist facilities:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_
- 6) \_\_\_\_\_
- 7) \_\_\_\_\_
- 8) \_\_\_\_\_
- 9) \_\_\_\_\_
- 10) \_\_\_\_\_

3.2 Economic activities related to tourists:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_
- 6) \_\_\_\_\_
- 7) \_\_\_\_\_
- 8) \_\_\_\_\_
- 9) \_\_\_\_\_
- 10) \_\_\_\_\_

4. Identify four problems within the community that may impact tourism. Specify the route(s) where you observed them. (6 marks)

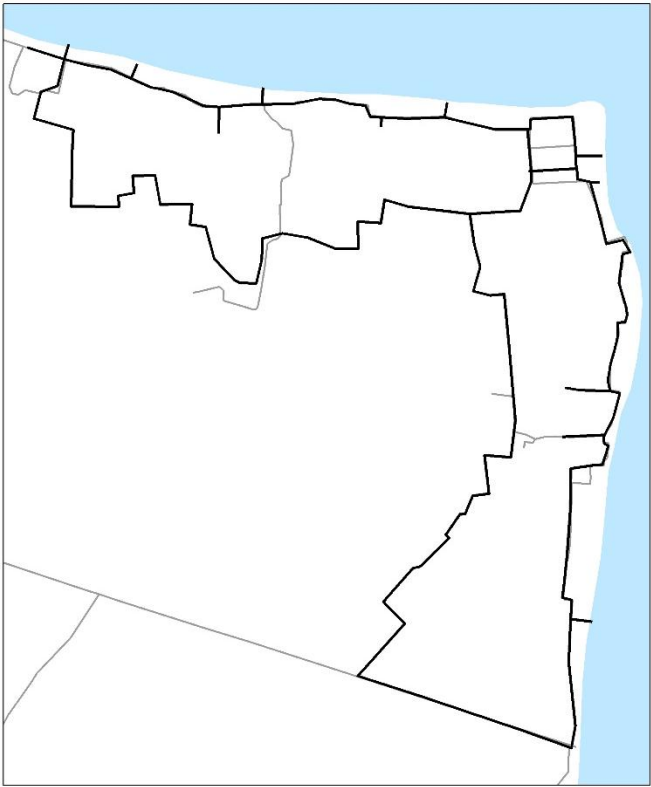
**Table 1-2: Physical Problems.**

Problems	Route	Descriptions/evidence

5. Mark the locations of the piers on Map 1-3 with numeric symbols (e.g. 1, 2, 3, and so on). Identify which piers are mainly used for public transportation. Justify your answers in Table 1-3. (4 marks)

**Table 1-3: The uses of piers.**

Major use	Pier Number	Justification for your answer
<i>Public transportation</i>		
<i>Non-public transportation</i>		



**Map 1-3: Locations of the piers.**