

## Course Completion Report Cartography

Course 4.9

**NORPLAN** 

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### 1 CONTENT

- Course data
- Course objectives
- Training focus group
- Practical and theoretical work
- Course evaluation: comments from participants
- Recommendations for next or other courses

### 2 COURSE DATA:

Name of course:	Cartography
Number of participants:	17 trainees from: RuWatSIP, MRRD, MEW, MoM
Location for training:	RuWatSIP Conference Room, MRRD
Date of implementation	10 to 11 December 2013
Course organiser	Mr. Andreas deJong
Supporting presenter	Prof. Zarinkhail

### 3 COURSE OBJECTIVES

The main objectives of this course were to present map development history, colour science, cartography principles, and design concept for making good maps. Online references for further work and getting more materials and knowledge was a part of this training. Advanced symbology techniques in ArcGIS was also planned to be implemented by training participants. Important issues regarding data representation like optical illusion, seen in below image, have to be explained and let GIS map designers consider while working with map designs to represent data.



Use and evaluation of data in map design and how to represent spatial data on maps needed to explain. Designing map layout was another important topic to be explained and implemented for

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Cartography\1\_Administration\4.9 Cartography - Course Completion Report.docx

trainees. A large size map layout (A0) was planned to be made at the end of training. This training course was hoped to familiarize trainees with concepts of cartography to emerge data with valuable colour shades and represent that on a standard and professional map.

### 4 TRAINING FOCUS GROUP

This training was planned to train GIS related people who use GIS, manage and analyze data in GIS during their daily activities. GIS related people includes GIS experts, hydrogeologists, design engineers, and surveyors. General map users can also benefit from this training. The theories and concepts planned to present in this course discuss general design issues which may be good for anyone in any field. Therefore, understanding of design concept to make good maps will directly support GIS users and map designers.

GIS users participating this training are from MRRD, MEW, MoM, AGS, DACAAR, USAID. Out from the invited fellows, the focus group for this training consisted from GIS related people in mentioned organizations and are: 1 person from GIS-MIS Unit of RuWatSIP/MRRD, 3 from Engineering Unit of RuWatSIP/MRRD, 2 from Hydrogeology & Geophysics Unit of RuWatSIP/MRRD, 4 From MEW, 4 from WRD/MEW, 1 from VIC/MEW, and 2 from PCU/MEW.

### 5 PRACTICAL AND THEORETICAL WORK

This course was a 2 day training. First day was mostly theoretical. An integrated presentation used for the first day. Topics covered in this presentation include introduction, cartographic planning process, evaluating data, cartographic design principles, advances symbology techniques, map text and designing layouts. The presentation included important and interesting topics and most of the participants were happy.

Second day of the course was planned for practical activities. It was planned to work and give feedback on maps which were already drafted by GIS Adviser for Faryab (workshop type activity). Designing a map layout according to standards for large size of A0 and work on advanced symbology design. Out of above 3 main activities in practical, the first 2 took place; maps reviewed and commented by participants and map layout was designed. Training participants had this practise by using project laptops for training. Due to shortage of time, the third practical activity was not covered. In this activity, it was planned to work on designing advanced symbology in GIS. The missing activity will be covered in a second course of cartography.

### 6 COURSE EVALUATION: COMMENTS FROM PARTICIPANTS

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Cartography\1\_Administration\4 9 Cartography - Course Completion Report.docx

The course is evaluated with 3 standard questions (shown below). Feedback was collected and organized in a spreadsheet. The course evaluation document is available on the project website with full comments.

In summary the questions for evaluation and the participants response in percentage were as follows:

**Question 1:** Did the training course meet your expectations? 1=Completely, 2=Partially, 3= Not at all,

Response: Completely: 8%, Partially: 92%, Not at all: 0%.

**Question 2:** What do you think about the overall relevance of training course? Considering the limits on your time and the topics discussed? 1= Too Long, 2= Just right, 3 = Too short

Response: Too Long: 0%, Just right: 33%, Too short: 67%.

**Question 3:** How the relevant was the training workshop to your organization or project's need? 1= Very relevant, 2 = Somewhat relevant, 3 = Not relevant

Response: Very relevant: 75%, Somewhat relevant: 25%, Not relevant: 0%.

## 7 RECOMENDATIONS IF THE COURSE WAS TO BE REPEATED

1. The course duration of 2 days does not look fine. 67% of participants select that course was too short. Current duration of this course is fine for introductory part. We can add a second 2 day course name "Cartography 2" and make "Cartography 1" as prerequisite for that course.
2. Almost 75% of participants are agree with the course relevancy to their job. The remaining 25% was agree to somewhat relevancy. Therefore, these type course are recommended for the future.

Report prepared by: Zarinkhail, GIS-MIS Adviser, Norplan, December 2013