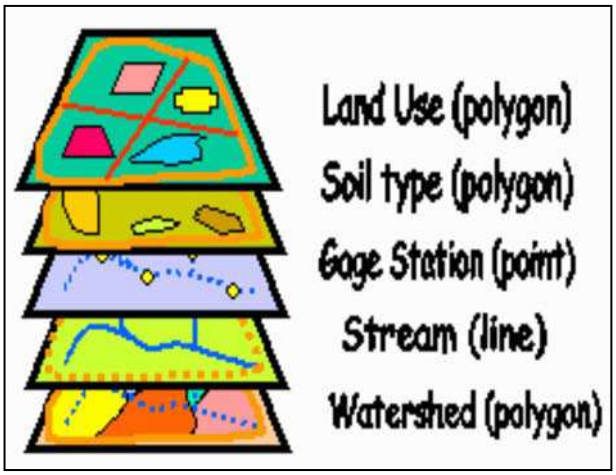
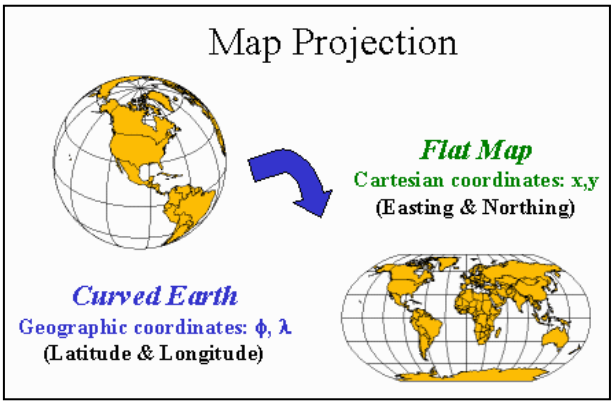
Training Course on GIS and Remote Sensing (RS) *at HRC Wad Medani*

Introduction

The Geographic Information System (GIS) is a kind of decision support tool connecting the *what* to the *where.* While remotely sensed data (RS), refer to data measured from space, such as satellite images, and areal photographs.



GIS applications are increasingly embedded in all kind of disciplines. The accuracy and resolution of RS data is steadily increasing makes such data feasibly utilizable in many products, ranges from planning studies, engineering applications, natural resources, and many other applications.



Learning objectives of the course

Upon successful completion of the course, participants will be able to understand the basics of GIS and RS, and use the techniques for typical mapping applications, as well as processing of satellite images. The participants will also learn how to get more information for advance use of GIS software.

One Week Training Course on GIS and RS

14 – 18 May 2017

Objectives of the course

The objective of this course is to provide an introductory material on GIS and RS.

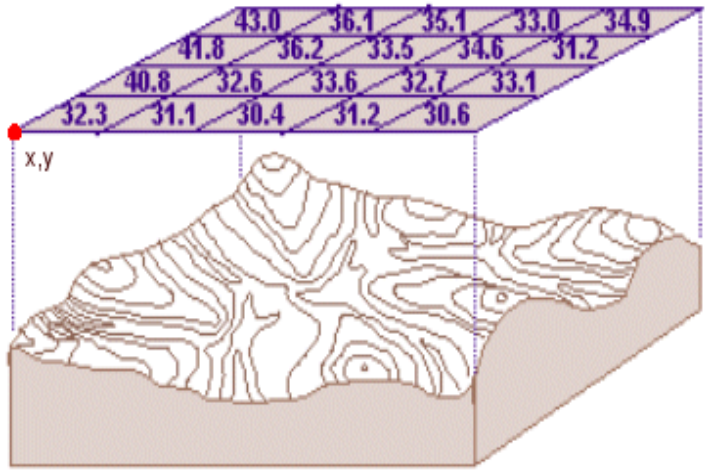
Course content

The course covers the following subjects:

Subject	Number of hours	
	Theory	Workshop
Introduction to GIS	2	
Vector data analysis	2	4
Raster data analysis	2	4
Mapping with GIS	2	4
Basic concepts of RS	2	4
Image data analysis	2	4
Selected application of GIS and Remote Sensing	2	6

Location

The course will be conducted at the Training Center of the Hydraulic Research Center (HRC), Wad Medani, Sudan. The Center is equipped with 25 modern PCs connected to a fast computer server, with speedy internet connection.



Date and duration

The course duration is one week or 40 contact hours of theory and practice, from **14 – 18 May, 2017**, (daily from 09:00 to 17:00).

Registration

Interested applicants should submit application form or send an e mail request to attend the course before 1rst May 2017.

The total fees of the course is 950 SDG (excluding accommodation cost). Breakfast, coffee/tea, and drinks will be provided.

Instructors

Staff of international experience will deliver the course, with ample time for practice as well as for questions and answers.

Software

ArcGIS 10.2 as well as ERDAS IMAGINE 9.3 will be used during the full course. In addition, a short introduction to GPS will be given.

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