



2018
Summer
School
Program

Course Title: Remote Sensing for Coastal Zone Management

Date: August 01 to 05, 2018



Target Group: MSc and Above International Students

Pre-requisite/Context/: BSc/MSc in Remote Sensing, Geo-Information and Related Fields

Subject Matters / Definition of the problem

Number of Trainees: 25

This course introduces the theory and techniques of remote sensing for coastal zone management. Coastal areas have significant impacts on societal, economic and ecological development. However, coastal areas are highly vulnerable to waves and tides, which may lead to a huge loss of life, biodiversity and properties. The extents of its impact is highly determined by the way how to manage the coastal areas (World Bank, 1996). Over the past few decades, the development of geospatial technologies like remote sensing has increasingly serving as important tool for coastal change analysis and monitoring (Jiang et.al, 2016). Thus, this course is designed for offering the basic principles, approaches, methodologies and applications of remote sensing for coastal zone management and monitoring strategies.

Learning Objectives



Learning Outcomes

The participants are able to:

- Describe the concept and principles of remote sensing for coastal zone management.
- Familiarize with the various types of coastal management approaches, models and frameworks.
- Apply and use remote sensing technologies for coastal zone change analysis, management and monitoring strategies.



Educational Concern:

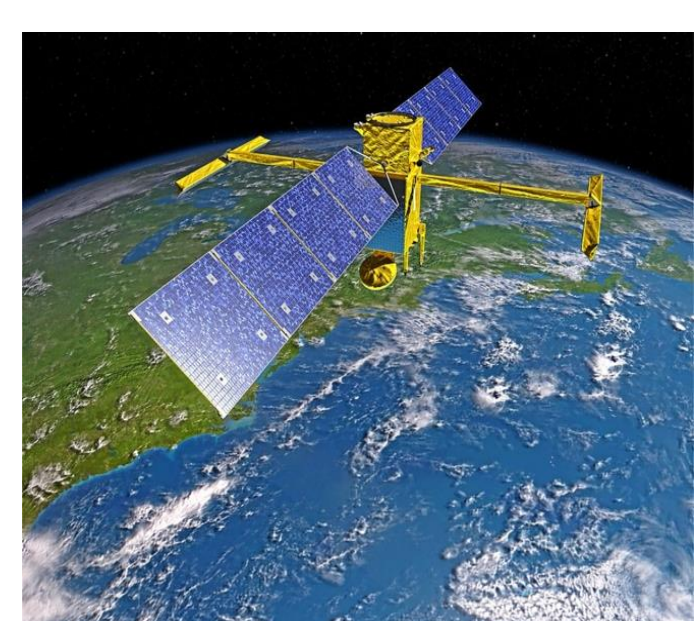
The course will have a significant role for empowering the participants in research, teaching, planning and decision making activities related to coastal zone management system.



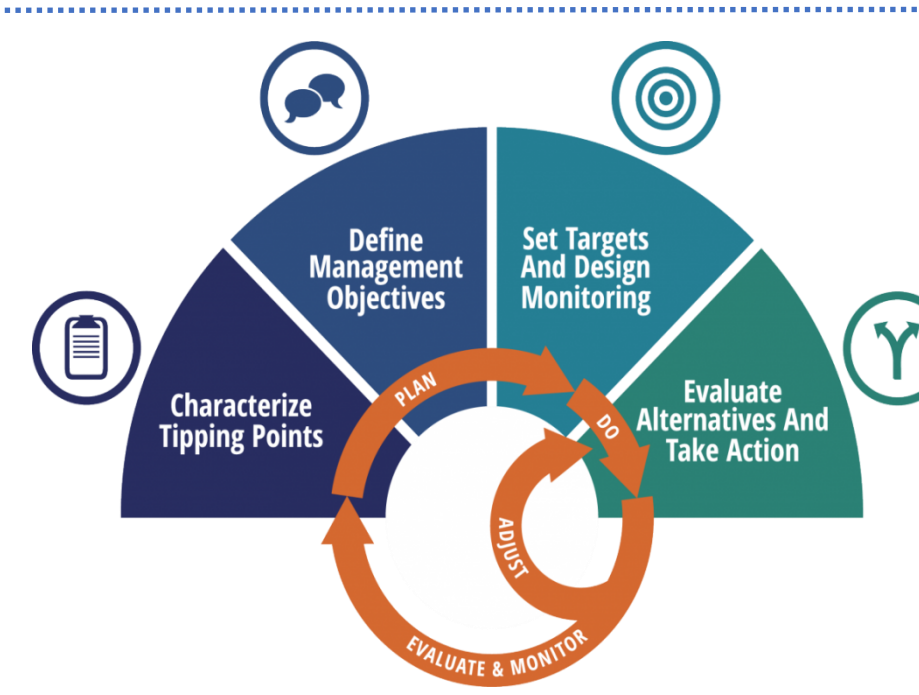
Learning Environment

- **Teaching-learning activities are:** lecture, group discussion, problem-based learning, Jigsaw method, experiential learning, practical exercises, group work, summary and feedback.
- **Teaching-learning materials are:** books, articles, videos, blogs, laboratory manuals, image analysis software's, data show and web pages.
- It is five days summer school training and it will be delivered using English language.
- **Learning theory :** Constructivism learning theory

Content of the Course



Concept and Principles of Remote Sensing for Coastal Zone Management



Coastal Zone Change Prioritization and Monitoring



Coastal Management Approaches/Models/ and Frameworks



Project Summarization, Presentation and Feedback



Coastal Zone Change Analysis

Designed by :



Abebe M.



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References

- Jensen, J.R., (2007). Remote Sensing of the Environment: An Earth Resource Perspective.
 Panda. B.C. (2005). Remote Sensing: Principles and Applications.
 Jiang et.al (2016). Monitoring the Coastal Environmental Using Remote Sensing and GIS Technique
 World Bank (1996). Guidelines for Integrated Coastal Zone Management.

For the course description, activities and other information

Follow in the next page "The Road Map"

With the support from:

