

“Capacity Building and Strengthening Institutional Arrangement”

Analysis and Sampling Of Water And Water Pollution

Working group n°. 3
“Define a system for coastal zones
monitoring network”

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APAT

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Define a system for coastal zones monitoring network

Objectives:

Given a map of Egyptian coast, you have to define a system for coastal monitoring network in order to characterize the short and long term meteo marine conditions.

Define a system for coastal zones monitoring network

Activities:

meteorological measurements

- After the observation and characterization of the site:
- Describe which physical parameters measurement you are interested in
- Describe the instruments you need for climate characterization
- Define where and why instruments have to be placed to correctly provide accurate measurements
- Define how many meteorological stations are necessary for your aim
- Describe the technical features of the measurement stations: sampling time, resolution, accuracy and operational properties

Define a system for coastal zones monitoring network

Activities:

wave measurements

- Describe which marine physical parameters measurement you are interested in
- Describe the instruments you need for sea waves measurements
- Illustrate where you have to deploy the buoys and the needed depth
- Define how many buoys you need for waves conditions monitoring
- Describe the technical features of the buoys and of the data recording and transmission apparatus: sampling time, recording time, accuracy and operational properties

Define a system for coastal zones monitoring network

Activities:

tide measurements

- Describe the physical parameters you have to measure in order to characterize sea level conditions
- Describe the instruments required for your aim
- Indicate the likely position of the sea level stations
- Describe the technical features of the sea level stations: sampling time, accuracy and operational properties